PNNL-16490
MGL-2007-001

Pacific Northwest
National Laboratory
Operated by Battelle for the
U.S. Department of Energy

Borehole Gravity Meter Surveys at the Waste Treatment Plant, Hanford, Washington

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March 2007

Prepared by Microg-LaCoste
for the Pacific Northwest National Laboratory
under Contract DE-AC05-76RL01830
with the U.S. Department of Energy

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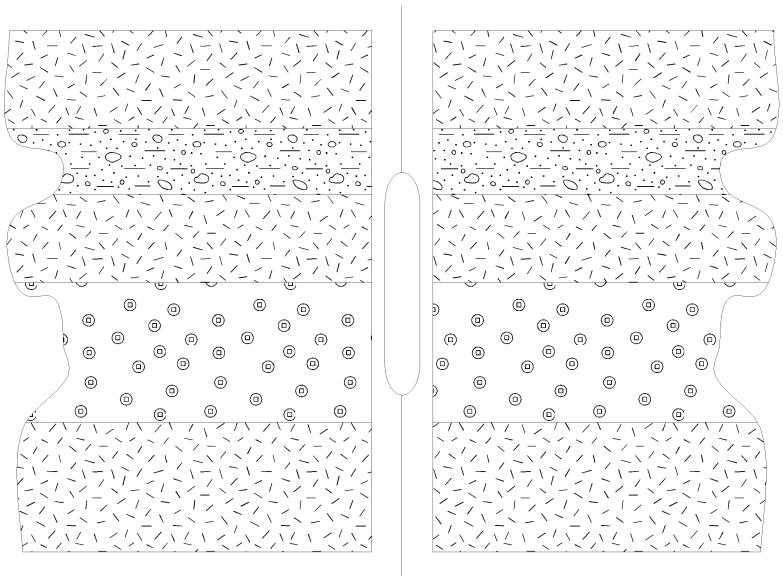

Report MGL-2007-001

Jeffrey D. MacQueen
Ethan Mann
Microg-LaCoste

March 30, 2007

MICROg LACOSTE
A DIVISION OF LRS

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operated by
BATTELLE
for the
UNITED STATES DEPARTMENT OF ENERGY
under Contract DE-AC05-76RL01830

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1 Survey Overview

Microg-LaCoste (MGL) was contracted by Pacfic Northwest National Laboratory (PNNL) to record borehole gravity density data in 3 wells at the Hanford Waste Treatment Plant (WTP) site. The survey was designed to provide highly accurate density information for use in seismic modeling (see McCulloh [1966] and Beyer [1983] for an introduction to borehole gravity surveying). The borehole gravity meter (BHGM) tool has a very large depth of investigation (hundreds of feet) compared to other density tools so it is not influenced by casing or near welbore effects, such as washouts. The survey goal was to provide rock densities with an estimated error of $\pm$ 0.05 g/cm^3 or less for use in the seismic modeling. The final survey design used 10 foot station intervals and depth control by surface wireline odometer. Applying inversion techniques to the BHGM data, it proved possible to calculate densities with estimated errors of less than $\pm$ 0.02 g/cm^3 over almost all intervals, which significantly exceeded the survey goal.

This survey probably constitutes the largest BHGM survey ever done. The largest number of readings ever recorded before this in a single BHGM survey was about 450 readings, to the best of our knowledge. This survey almost undoubtably contains the longest section (approx. 4200 feet in the three wells) of BHGM data taken at such a small station spacing (10 feet).

Well name	number of gravity readings	Hours spent in well	Average gravity station accuracy (mGals)
C4993	741	115	0.008
C4996	1006	214	0.015
C4997	747	137	0.008

Table 1: Acquisition statistics

These stations were acquired from Nov. 11th, 2006 to Dec. 10th, 2006. Details of field operations are included in Appendix C.

2 Data processing

A good general introduction to BHGM data processing can be found in Beyer [1983].

2.1 Data editing and reading corrections

Processing of the BHGM data, after the in-field acquisition and processing described in Appendices D.1, D.2, and F, consisted of four steps:

1. The field data was loaded into a binary file, with first-order checking applied (rejecting values obviously out of range).

2. The data was then plotted as density versus depth, and inspected visually, with obvious large outliers (the red x's in figure 1) removed.

3. The density-depth plot was zoomed in to cover a few stations at a time. Smaller outliers, which were not obvious at the scale of the whole well, were visually detected and removed (figure 2).

4. The edited data was processed to remove linear time drifts. For the purpose of drift removal, any time gap in the acquisition greater than two hours started a new linear drift segment. The drift segments were determined by least-squares, to minimize the scatter of the gravity readings at each depth.

The steps listed above used a set of MGL-developed scripts written in the MATLAB (©The Mathworks, Inc.) programming language. These scripts were tested by run-time inspection within MATLAB, and by tests with synthetic data where appropriate.

Table 2 shows the number of original field records (Raw), the number which passed the first-order loading checks (see processing step 1) (Records read), the number which passed the visual inspections (see processing steps 2 and 3) (Accepted records), and the percentage of the original data accepted for further processing.

Well	Raw records	Records read	Accepted records	Final percentage
C4993	741	740	721	97.3%
C4996	1006	1003	904	89.9%
C4997	747	729	700	93.7%

Table 2: Editing statistics

The field data showed small depth deviations (usually on the order of $\pm$ 0.05 feet) around the nominal station depths. A depth correction is often applied to bring all of the stations to their nominal depths. Application of depth corrections made essentially no difference in the station repeat statistics, so these were not done. This indicates that the actual error in depth measurements was of the order of the nominal error.

MGL calculated corrections for circular error (systematic errors in the gravity reading as a function of the screw position, caused by small mechanical imperfections) and residual tide errors (small errors due to imperfect calculation of the true local earth tides). These errors proved to be quite small, generally $<$ 0.001 mGal, and made no significant difference to the repeatability of the final gravity data, so they have not been included in this report.

2.2 Terrain corrections

An underlying assumption in the process of calculating density from the gravity values measured in the boreholes is that the surrounding earth is composed of homogeneous flat layers. One obvious departure from this assumption is the earth air interface. Terrain corrections are made to correct for the departures of the surrounding land surface from a level plane passing through ground level at the well head.

Terrain correction methods adopted by the geophysical community for surface gravity surveys generally follow a scheme originally presented by Hayford and Bowie [1912]. This methods divide the land surface into a series of rings centered on the gravity station position.

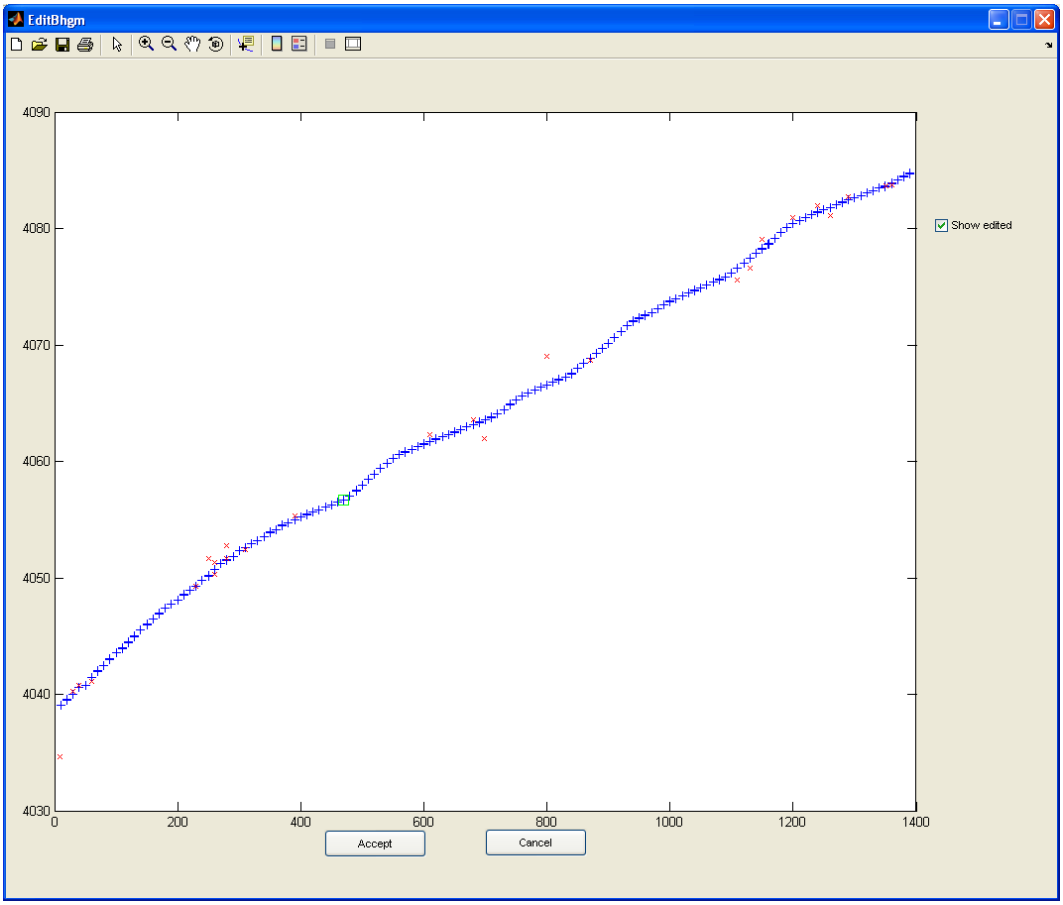

Figure 1: First editing pass (x-axis is depth, y-axis is BHGM gravity in milliGals)

Each of these rings is further divided into equal sized compartments bounded by radials from the gravity station position and assigned an elevation. This arrangement is convenient because the gravitational attraction of the compartments can be calculated exactly using the equation

$$g_i = \frac{2\pi G\rho}{N}\left(\sqrt{r_1^2+(h-\Delta h)^2}-\sqrt{r_1^2+(h_1-\Delta h)^2}-\sqrt{r_2^2+(h-\Delta h)^2}+\sqrt{r_2^2+(h_1-\Delta h)^2}\right)$$

where G is the gravitational constant, r is the average density of the rocks enclosed by the compartment, called Terrain Density, r_1 is the inner radius distance of the zone measured from the well, r_2 is the outer radius distance of the zone measured from the well, h is the difference between the station elevation and the compartment elevation, h_1 is the difference between the station elevation and ground level, and Δh is the correction for the earth's curvature given by

$$\Delta h = \frac{d^2}{2R}$$

where d is the mean radial distance of the zone and R is the mean radius of the earth.

The near zone terrain corrections (closer than 1280 meters to the wellhead) were calculated using the method of Krohn [1976] in order to fully use the detailed near-well topographic survey data.

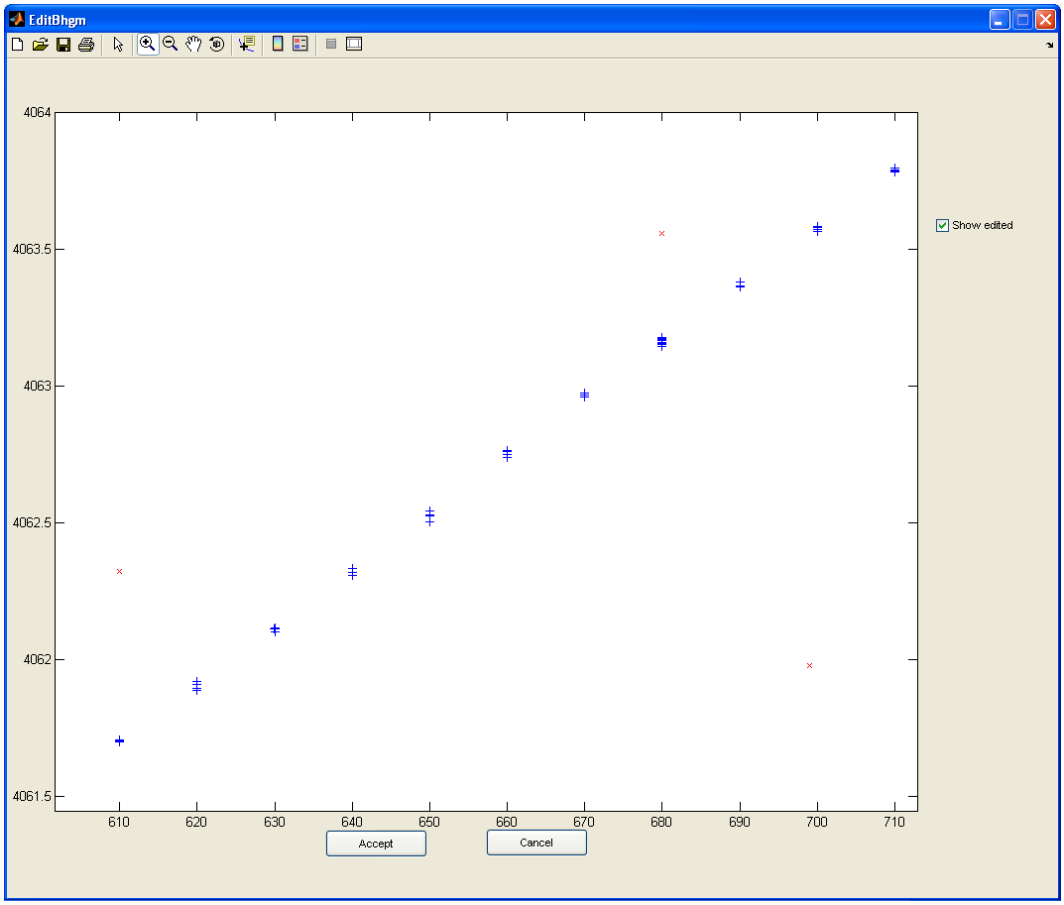

Figure 2: Second editing pass (x-axis is depth, y-axis is BHGM gravity in milliGals)

Three sets of digital elevation data (DEM's) were used. The far zone terrain data was obtained from the w140n90 Gtopo30 data file downloaded from the USGS seamless web site, http://seamless.usgs.gov/. Gtopo30 data is gridded at 30 arc seconds or approximately 1 kilometer, the horizontal datum is WGS84 and the elevations are referenced to sea level. The original data file positions use units of latitude, longitude and meters. We projected this data to UTM Zone 11 North using the NAD83 horizontal datum with all units in meters. The positions of the three wells using the NADV88 vertical datum are given in table 3

Well	Easting	Northing	Height
C4993	307755.440m	5158260.448m	200.499m
C4996	307826.310m	5158555.282m	204.079m
C4997	307977.327m	5158249.429m	206.406m

Table 3: Wellhead positions

Hanford personnel provided the data used for the near and intermediate zones. All Hanford data was projected to UTM zone 11 North, with NAD83 horizontal datum and NAVD88

vertical datum. All horizontal and vertical units are meters.

The intermediate zone DEM file, Hanford_dem_10m_utm83_navd88.asc, is gridded at 10m intervals and is contained in the following rectangle:

Western-most easting:	261508.7m
Eastern-most easting:	348847.8m
Northen-most northing:	5210501.7m
Southern-most northing:	5210501.7m

The Gtopo30 data was truncated at an outer radius of 166700 meters and an inner rectangle corresponding to the outer dimensions of the Hanford 10m DEM file. The combined Gtopo30 and Hanford 10m DEM data sets was used to generate the compartment elevations for the Hayford-Bowie scheme from an inner radius of 1280 meters to 166700 meters from each well position.

Hanford personnel supplied two files for the near zone terrain corrections; wtpdem_gnd_utm11.xyz and wtpdem_bld_utm11.xyz. Both files contained current ground elevations from GPS survey work around the WTP site. One file, wtpdem_bld_utm11.xyz, included the elevations of the floors of the basements of the WTP buildings and the vaults in the pit surrounding the C4993 well. This data file was used for the near zone terrain corrections from the well site positions to a radius of 1280 meters.

The wtpdem_bld_utm11.xyz file is gridded at 0.6 meter intervals and is contained in the following rectangle:

Western-most easting:	306149.0m
Eastern-most easting:	309745.7m
Northen-most northing:	5159672.7m
Southern-most northing:	5156825.2m

To fully utilize the near terrain data that included the basement and vault details, the number of rings and compartments was increased dramatically from the original Hayford-Bowie scheme.

The terrain correction compartment elevations for each well are contained in the files

C4993_BHGM_terrain_elevations.txt

C4996_BHGM_terrain_elevations.txt

C4997_BHGM_terrain_elevations.txt

The most frequently used terrain correction density is 2.67 g/cm^3 . This has been used as the terrain density for the intermediate and far zones terrain but the terrain immediately surrounding the wells is definitely of lower density. For example, well C4993 is within a large pit completely within alluvial deposits. The density of these deposits is close to 2.0 g/cm^3 , as shown by the BHGM data. The deviations from the well head elevations within a radius of 1280 meters are probably all contained within alluvium above the shallowest basalt layers. Therefore, 2.0 g/cm^3 is a reasonable density to use for the near zone out to 1280 meters from each well.

The software used for the terrain corrections (and other processing tasks) is derived from the quality controlled software used by EDCON (Exploration Data Consultants, Inc.) for two Borehole Gravity surveys associated with the Yucca Mountain project in Nevada.

The first of these surveys was conducted on September 22 and 23, 2000 in the NC-EWDP-19D well in Nye County Nevada approximately 90 miles North West of Las Vegas. The survey was performed under Purchase Order Number A17368GJ0A of TRW Environmental Safety System Inc. of 1261 Town Center Dr., Las Vegas, NV 89134.

The second survey was conducted on February 25 and 26, 2002 in the NC-EWDP-22S well in Nye County Nevada approximately 90 miles North West of Las Vegas. The survey was performed under Technical Services Agreement TA001821 on behalf of Bechtel SAIC Company, LLC of 1180 Town Center Dr., Las Vegas, NV 89144.

The original software was called R7.EXE and ran on the Microsoft DOS operating system. The same code was used in the software program called R8.EXE used with the Hanford WTP Borehole Gravity surveys except the user interface was adapted so the software would run on Microsoft Windows XP operating system.

The terrain corrections for each well have been converted to density corrections, and are plotted in figures 3, 4, and 5. Well C4997 shows the effect, in the shallowest part of the well, of the proximity of the large basement excavations. The near-zone corrections for well C4993 show the effect of the well location in the center of a large and deep excavation. These relationships between close near-surface topography and the density corrections can be understood from the near-zone topography map in figure 6.

3 The Microg-LaCoste Borehole Gravity Inversion Method

The recently-developed Microg-LaCoste BHGM inversion method, based on work originally presented in MacQueen [1989], allows stable calculation of interval densities over much closer station spacings than are feasible using the traditional method. The damped least-squares techniques [Aster et al., 2005] used in the inversion stabilize the density calculations in three ways:

1. The observed gravity data, which we know contain some amount of error, are not fit exactly, but only to within a tolerance determined by the noise level of the data.

2. The inherent redundancy of borehole gravity data further stabilizes the calculations. Each interval density influences the measured value at all the borehole gravity stations, so that each gravity value helps to constrain all the interval densities in the logged interval. The rocks in a given interval will increase the gravity for all stations above the interval, and decrease the gravity for all stations below the interval. The inversion algorithm uses all the gravity data to help estimate the density in a given interval, not just the data from the two stations immediately above and below the interval.

   An example might make this redundancy more obvious. Assume we have eleven stations at 10 foot intervals, spanning 100 feet of the well, with four repeats at each station (44 measurements). The traditional method of calculating densities would use the four gravity measurements immediately above and below each interval, which gives 16 differences to determine the interval density. Statistical analysis ot the correlation induced

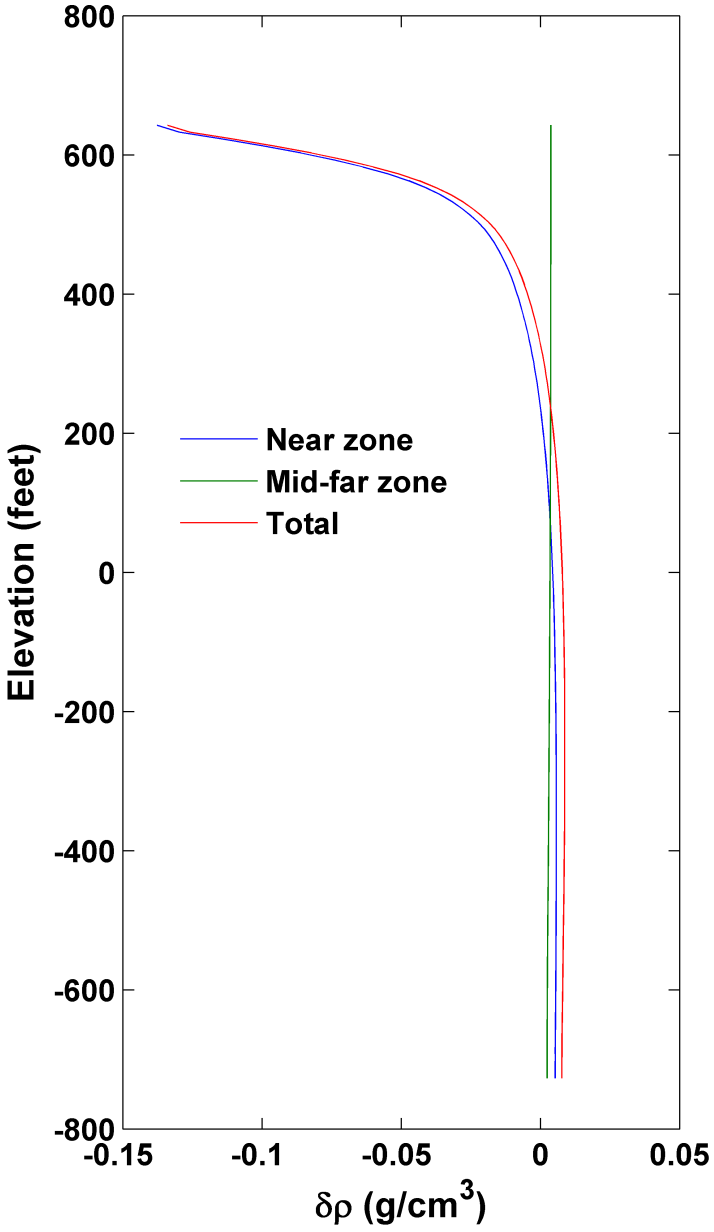

Figure 3: Well C4993: terrain corrections

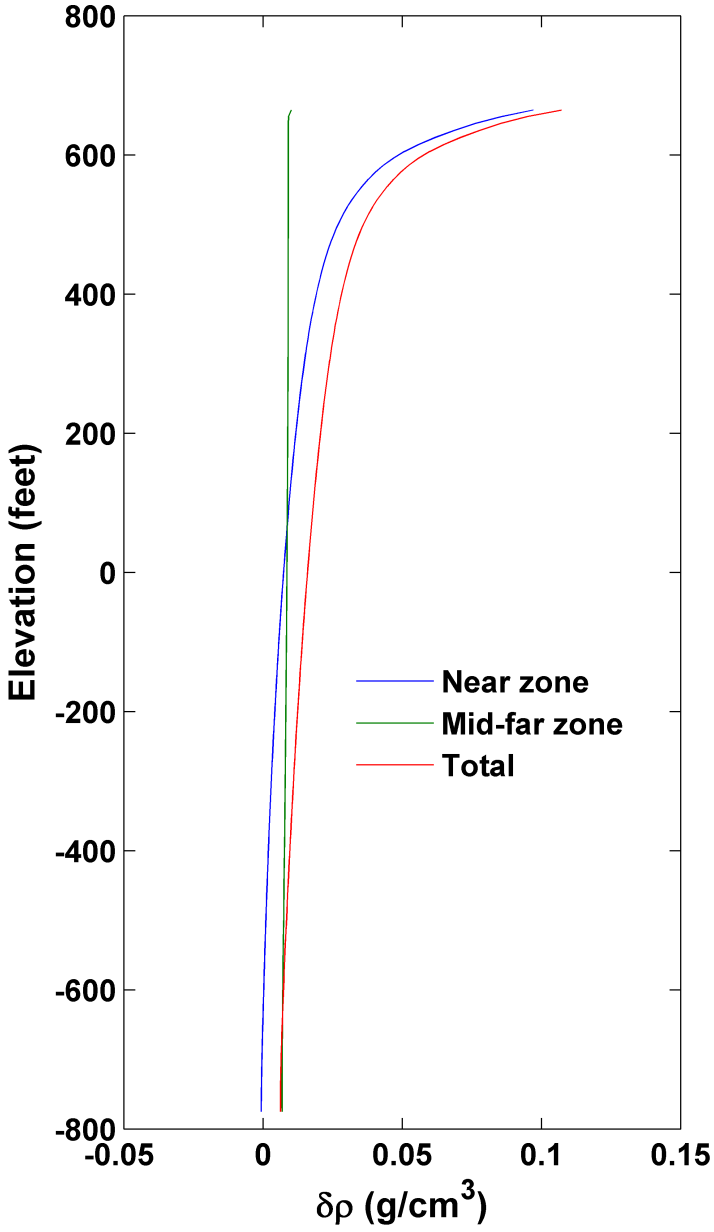

Figure 4: Well C4996: terrain corrections

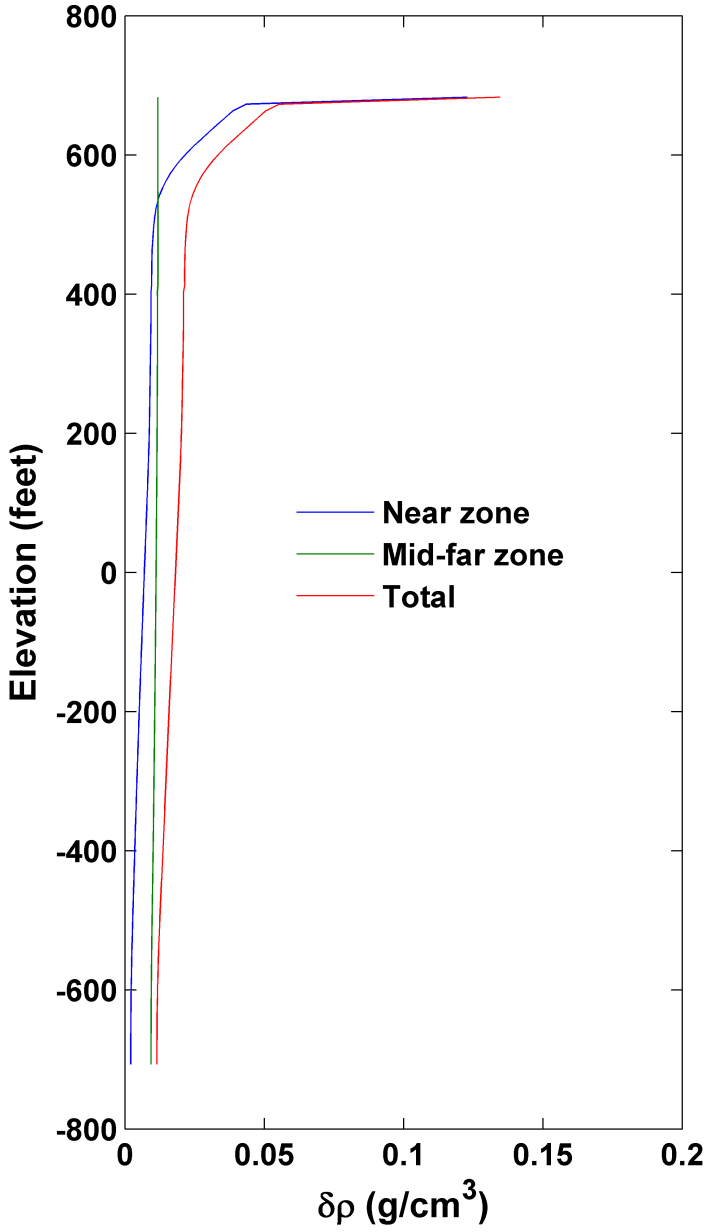

Figure 5: Well C4997: terrain corrections

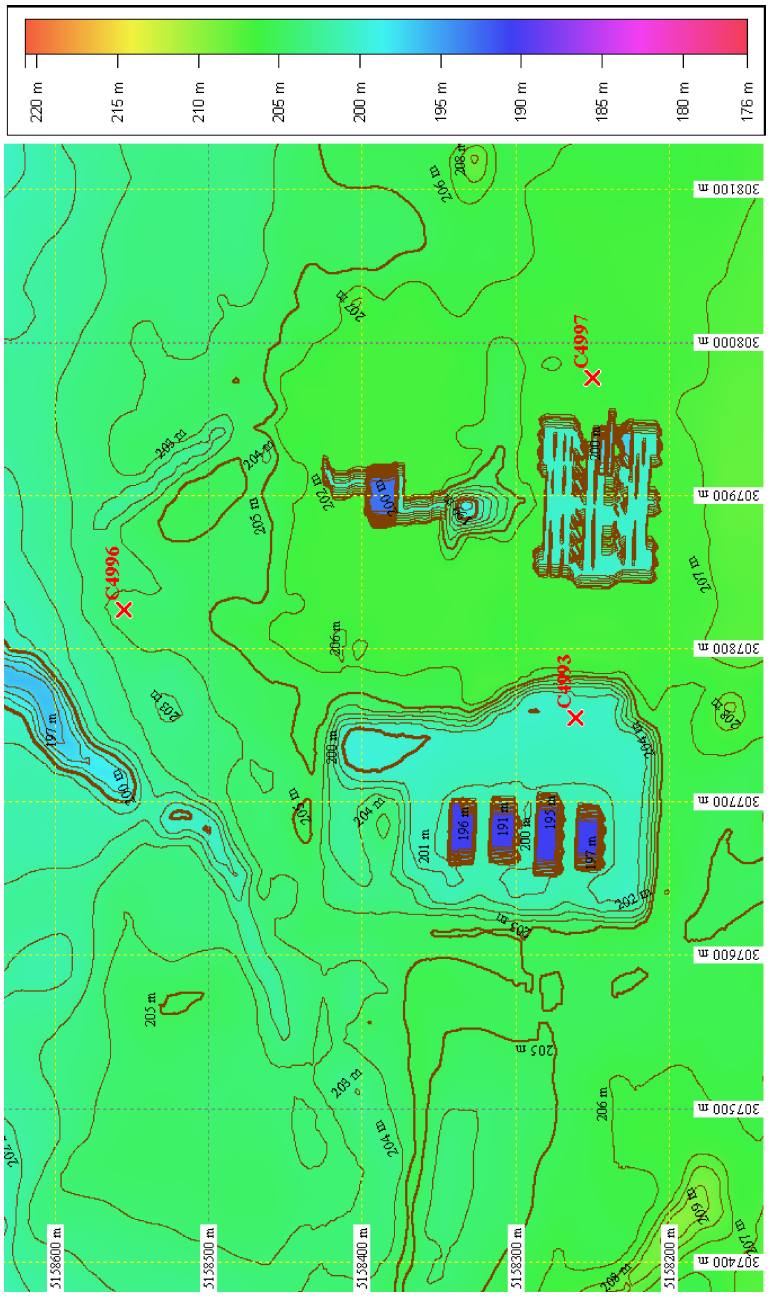

Figure 6: Near zone terrain

by the differencing shows that only seven combinations of these differences are independent. The inversion uses all 44 gravity measurements to determine each interval density.

3. Given the inherent non-uniqueness of gravity inversions, there are an infinite number of density models which reproduce the observed gravity data to within a specified tolerance. Out of this infinite number of models, the inversion algorithm calculates the one having the smallest deviation (in a least-squares sense) from a constant density. This has been called "the principle of least astonishment".

The density inversion was implemented by MGL as a MATLAB script. The script was suhjected to extensive testing, using synthetic data with realistic random errors added to demonstrate satisfactory recovery of the synthetic model.

4 Density inversion results

The inversion results for each well are plotted in the following figures. There are four plots for each well:

1. A plot of the BHGM inversion density, with a $\pm 1\sigma$ uncertainty plotted using thinner lines. For most of these plots, the uncertainty is so low that the uncertainties are not distinguishable.

2. A plot of the $\gamma - \gamma$ density log overlaid on the BHGM inversion density.

3. A plot of the $\gamma - \gamma$ density log, blocked to the gravity station intervals, overlaid on the BHGM inversion density.

4. A plot of the inversion fit to the data, summarized by the distribution of Z-scores. The Z score (a standardized measure of misfit) for the i'th gravity measurement is defined as

$$Z(i) = \frac{g(i) - \hat{g}(i)}{\sigma_g(i)}$$

where $g(i)$ is the observed gravity, $\hat{g}(i)$ is the gravity predicted by the inversion densities, and $\sigma_g(i)$ is the uncertainty of the gravity measurement. If the data has been fit properly, the Z scores should have a Gaussian distribution with standard deviation of 1. In the plots, the gray bars are the calculated Z score distribution, and the red line is the theoretical standard Gaussian distribution. The Z score distributions for all wells is very close to the target Gaussian.

Note that the logs are plotted in elevation relative to sea level, not depth relative to the wellhead.

In general, the BHGM and $\gamma - \gamma$ densities agree quite well, particularly when the $\gamma - \gamma$ densities are blocked. There are some areas of significant differences:

- The $\gamma - \gamma$ densities are obviously unreliable in the cased shallower sections of the wells (generally surface to 350-400 foot depth)

- The $\gamma - \gamma$ densities are possibly suspect in the sedimentary packages interbedded with the basalts. Inspection of the caliper logs indicates a tendency towards washout in these zones, which would interfere with the accurate functioning of the $\gamma - \gamma$ tool.

Overall, the geology of the wells appears to be accurately reflected in the BHGM densities. The density logs show

- A shallow, low-density section with compaction-induced increased density with depth
- A series of high-density massive basalt flow units, with lower densities towards the top of each flow. This may be a product of increased weathering, increased fracturing, or increased vesicularization (or any combination of these) towards the tops of the flows.
- Relatively low-density sedimentary packages interbedded with the basalt flows.

The well-to-well correlation is excellent, as shown in figure 19.

4.1 C4993

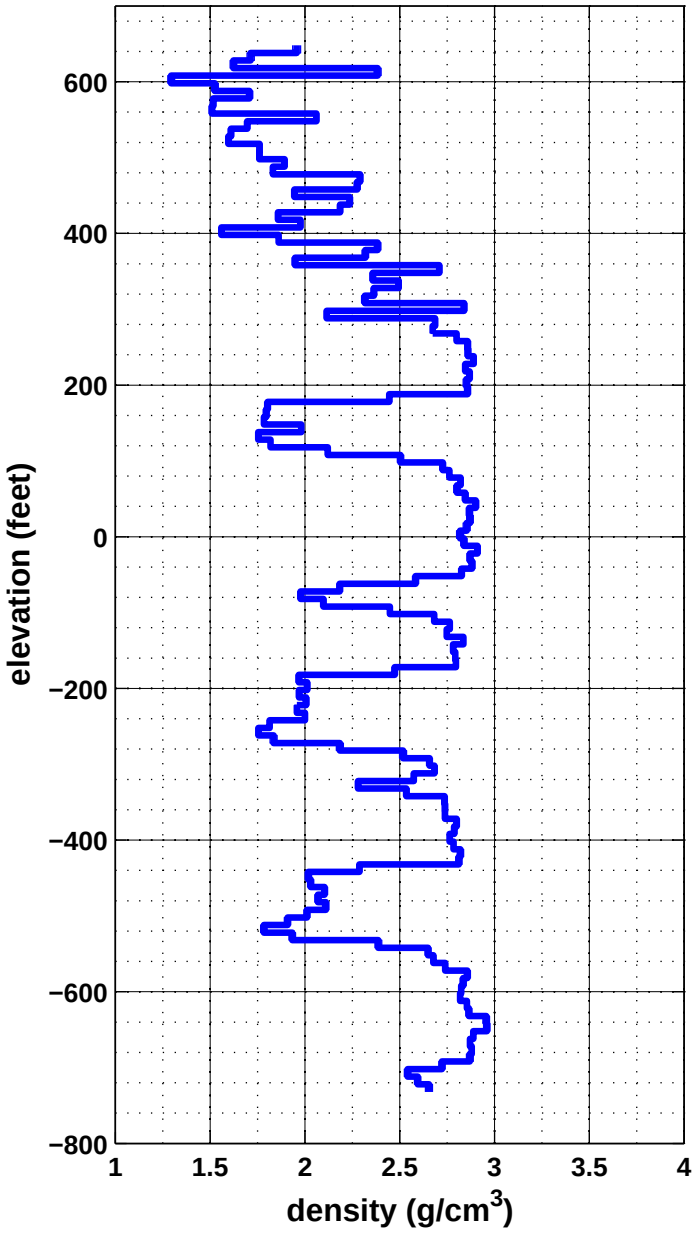

Figure 7: Well C4993: BHGM inversion results

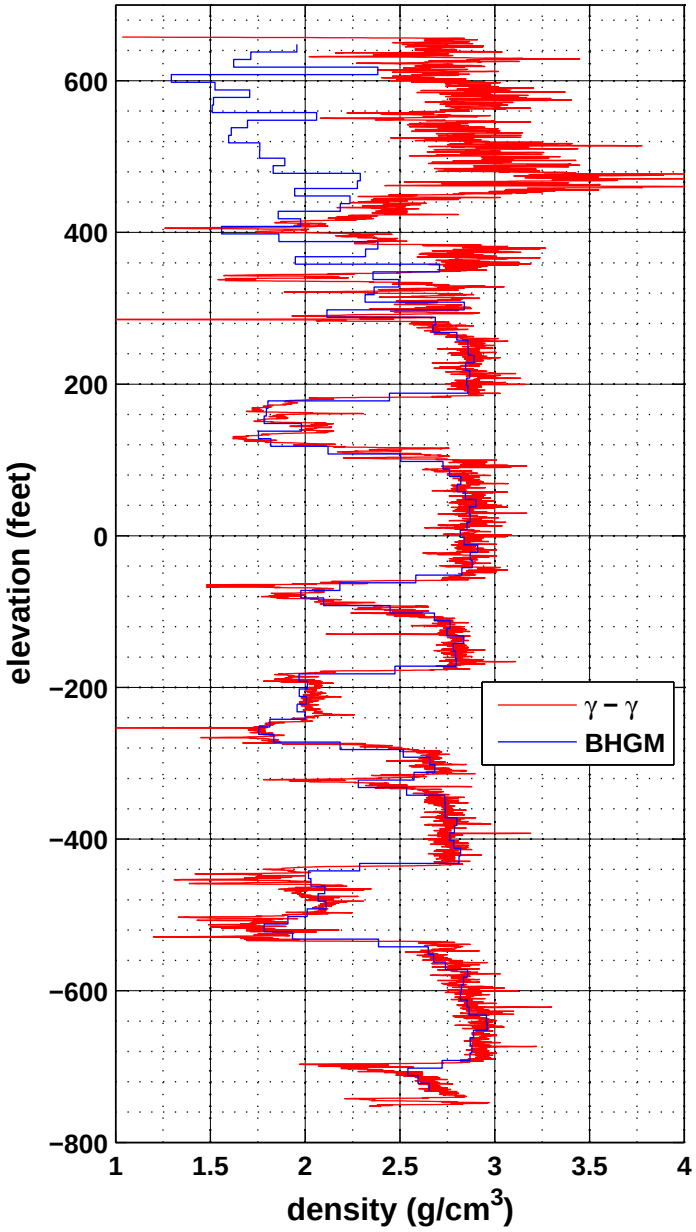

Figure 8: Well C4993: comparison of BHGM and $\gamma - \gamma$ densities

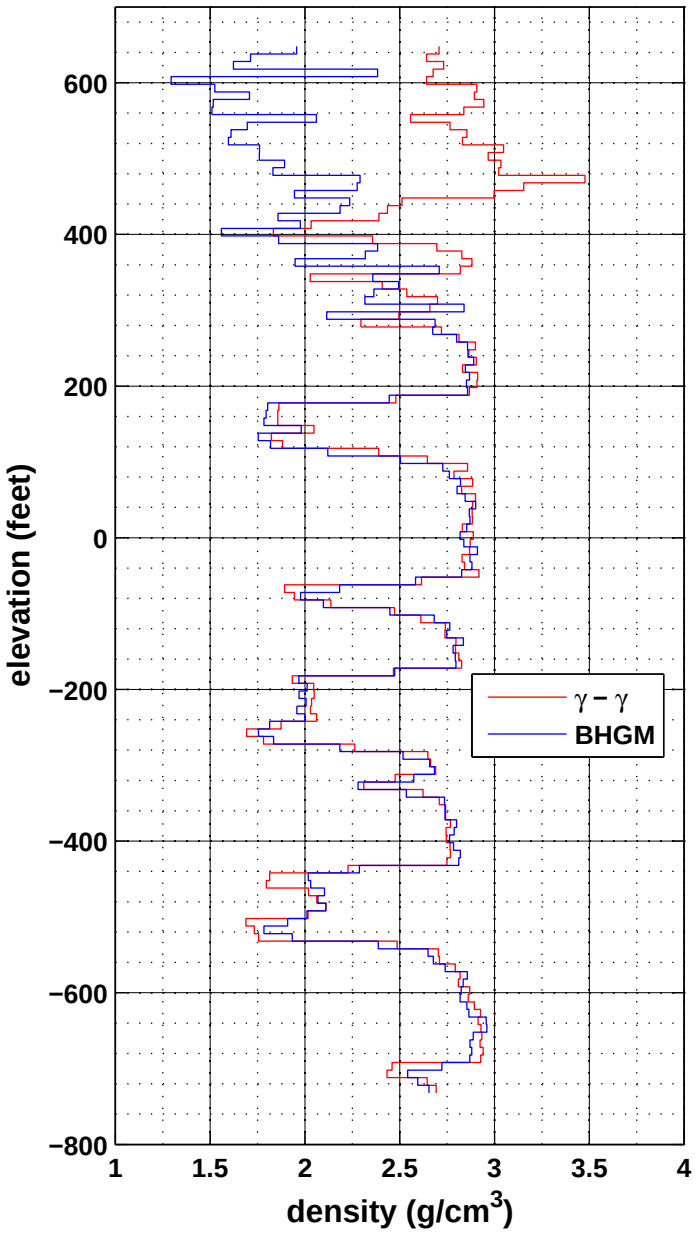

Figure 9: Well C4993: comparison of BHGM and blocked $\gamma - \gamma$ densities

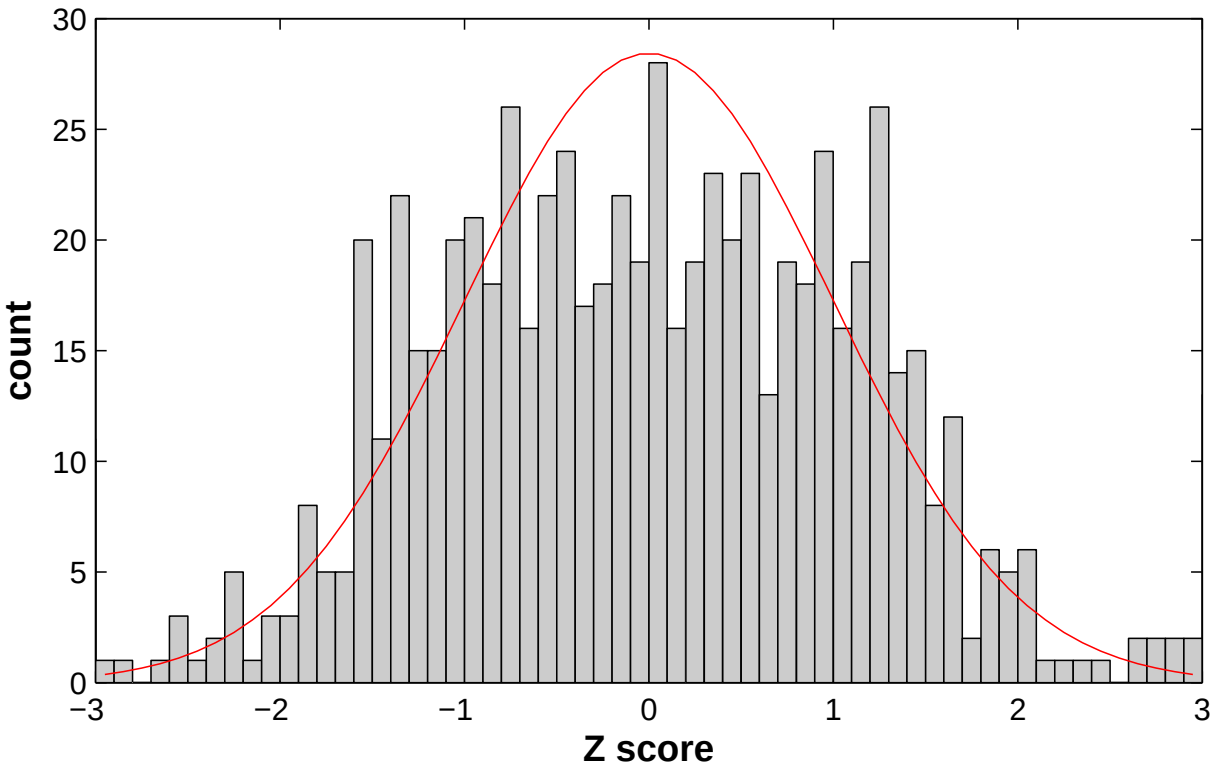

Figure 10: Well C4993: Z-score distribution of inversion fit

4.2 C4996

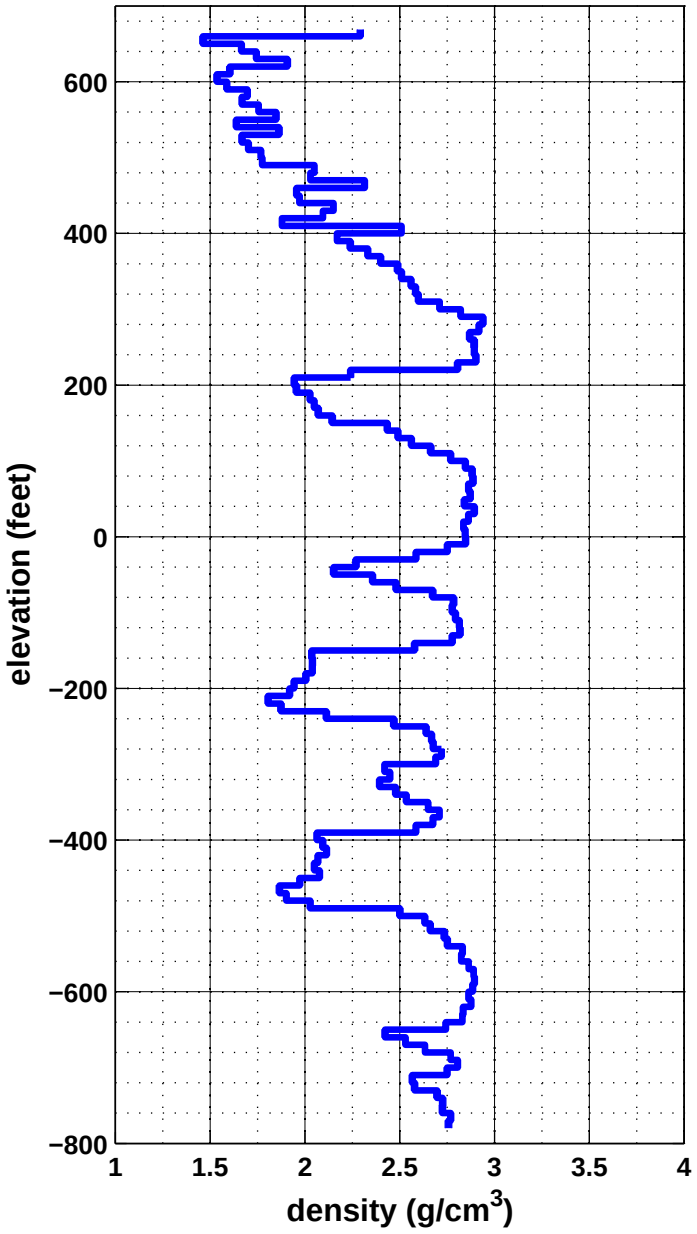

Figure 11: Well C4996: BHGM inversion results

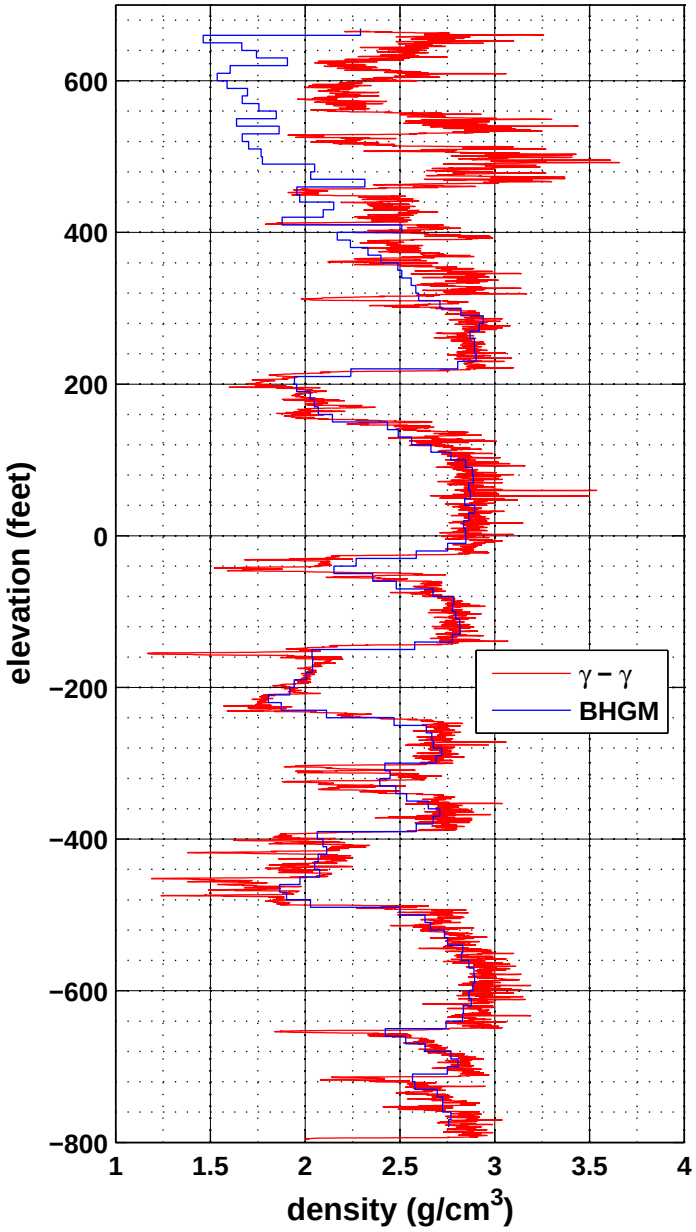

Figure 12: Well C4996: comparison of BHGM and $\gamma - \gamma$ densities

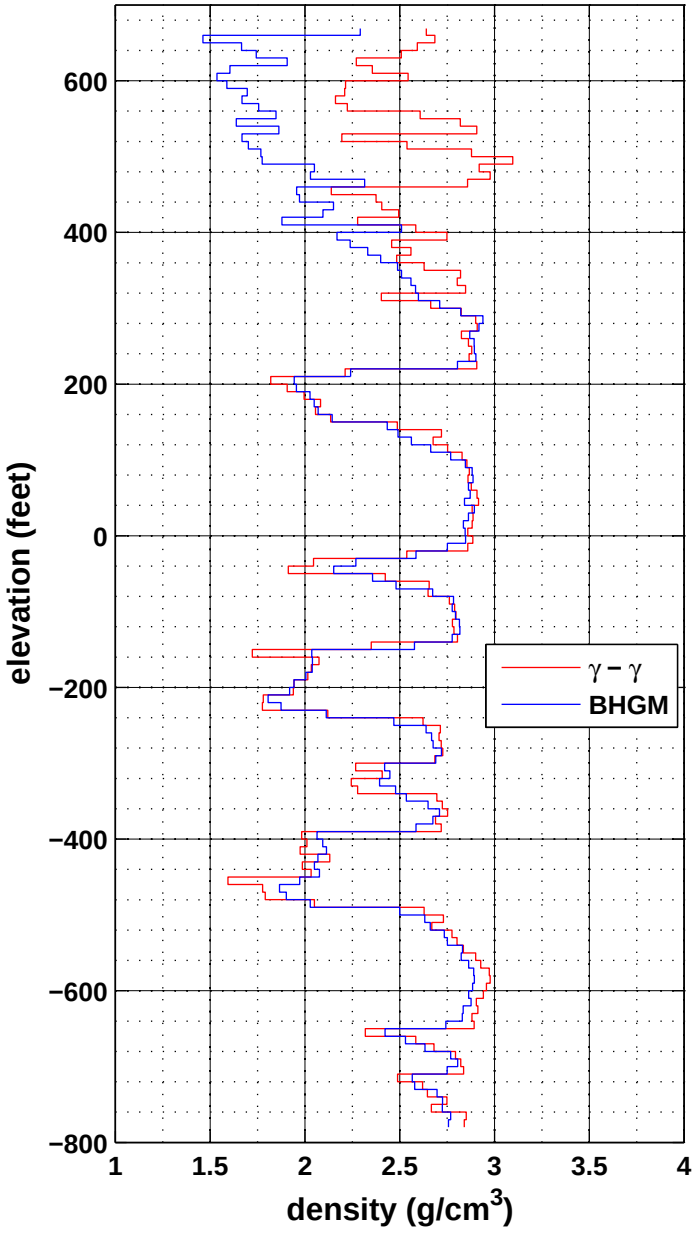

Figure 13: Well C4996: comparison of BHGM and blocked $\gamma - \gamma$ densities

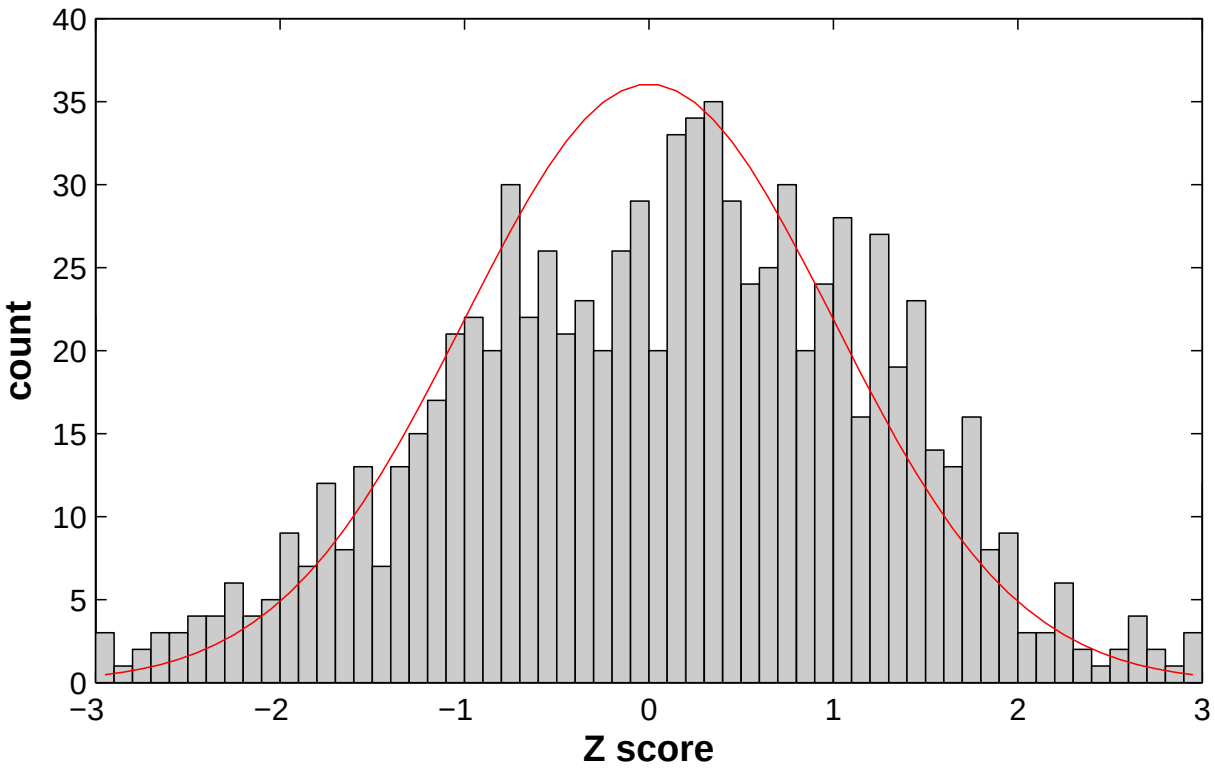

Figure 14: Well C4996: Z-score distribution of inversion fit

4.3 C4997

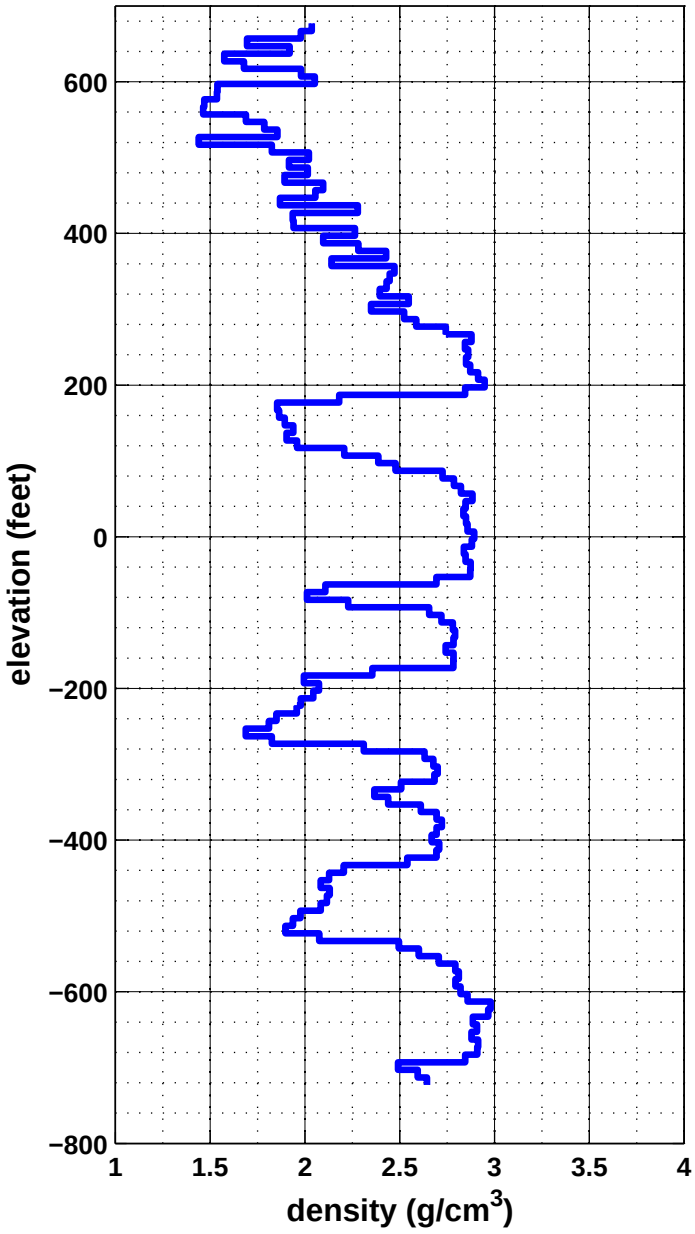

Figure 15: Well C4997: BHGM inversion results

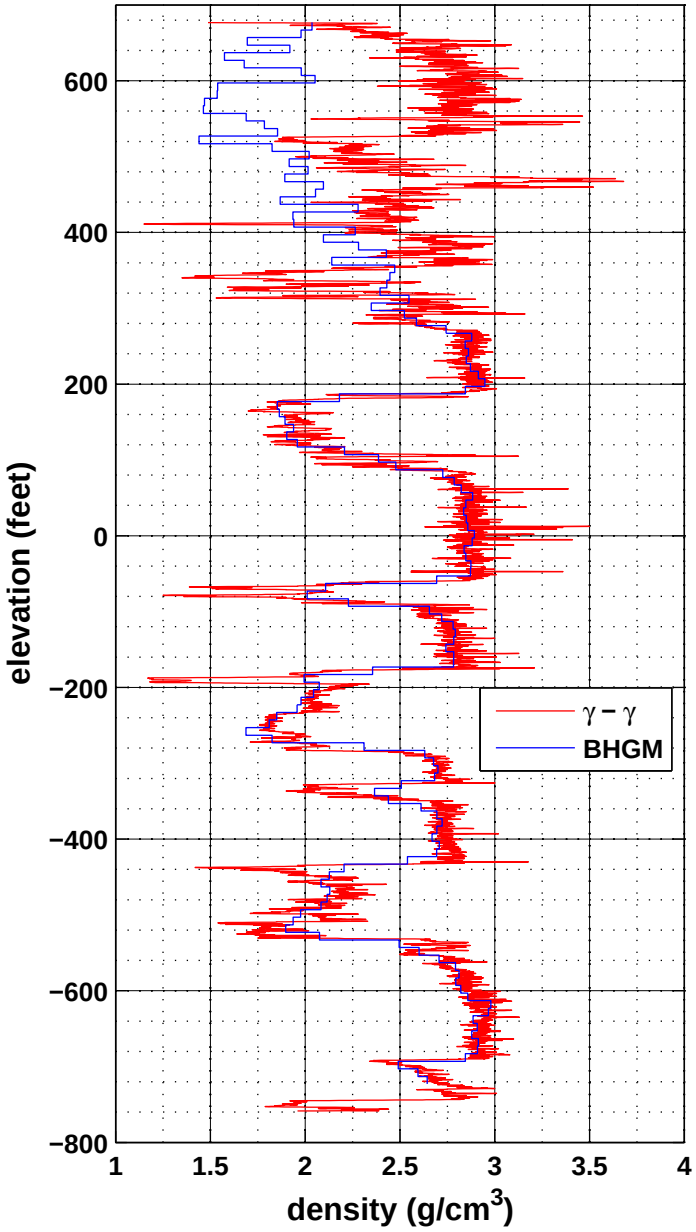

Figure 16: Well C4997: comparison of BHGM and $\gamma - \gamma$ densities

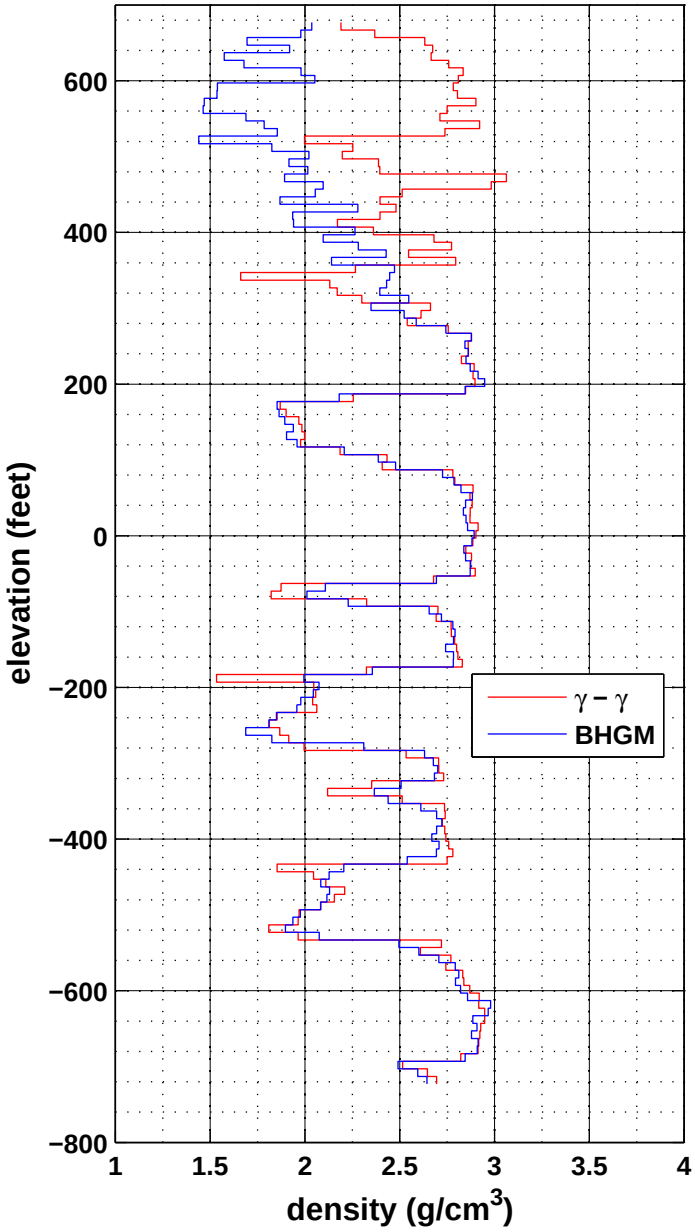

Figure 17: Well C4997: comparison of BHGM and blocked $\gamma - \gamma$ densities

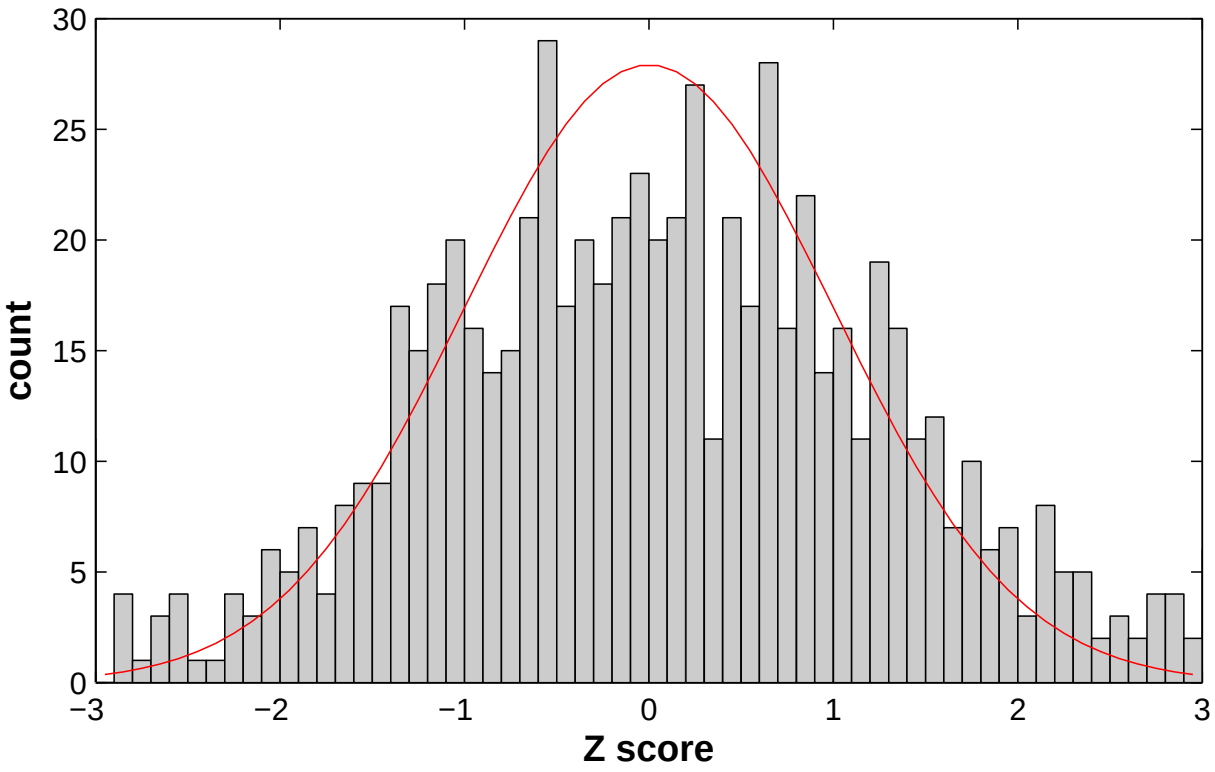

Figure 18: Well C4997: Z-score distribution of inversion fit

4.4 Well-to-well correlation

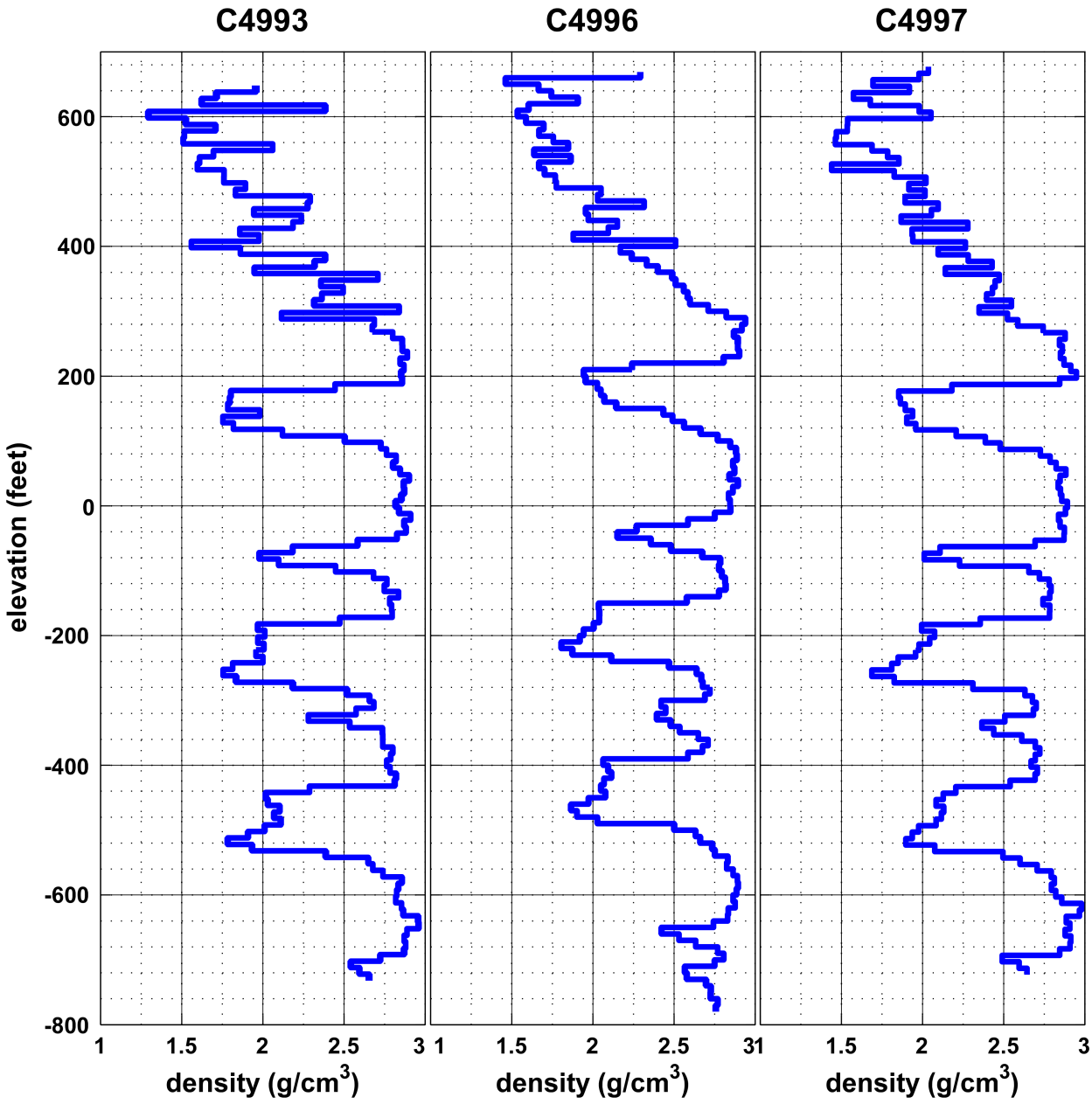

Figure 19: Well-to-well correlations

References

Richard C. Aster, Brian Borchers, and Clifford H. Thurber. *Parameter Estimation and Inverse Problems*. Number 90 in the International Geophysics Series. Elsevier Academic Press, 2005.

Larry A. Beyer. *Borehole Gravity Surveys: Theory, Mechanics, and Nature of Measurements*. Number 83-76 in the Open-File Report Series. U. S. Geological Survey, 1983.

J.F. Hayford and William Bowie. *The effect of topography and isostatic compensation upon the intensity of gravity*. Number 10 in the Special Publication Series. U.S. Coast and Geodetic Survey, 1912.

Douglas H. Krohn. Gravity terrain corrections using multiquadric equations. *Geophysics*, 41 (2), 1976.

Jeffrey D. MacQueen. Inversion of borehole gravimeter data. In *Expanded Abstracts of the Technical Program*, number 59. Society of Exploration Geophysicists, 1989.

Thane H. McCulloh. *The promise of precise borehole gravity in petroleum exploration and exploitation*. Number 531 in the Circular Series. U. S. Geological Survey, 1966.

Appendices

Appendix: A Processed gravity data

The processed gravity data for each well is presented in the following tables. The columns are:

Reading number: the reading number from the .rdg file.

File ID: the subfile identifier for the reading (file C4993*a*.rdg, C4993*b*.rdg, etc).

Reading depth: the reading depth in feet, relative to the wellhead.

Reading time: the reading time in days and fractional days, relative to 12:00:00, May 22, 1960.

gravity: the logged gravity data in milliGals, extracted from the .dat file (see Appendices D.1 and D.2). This is relative to an arbitrary initial value.

Tidal corr: the tidal correction in milliGals. Note that this correction has already been applied to the gravity values in the .rdg file, and is included here for reference.

Free-air corr: free-air correction, in milliGals. This correction is not applied until the inversion step, to facilitate using standard formulas for estimating densities. These formulas usually include a term for the free-air effect.

Near-zone TC: the near-zone terrain correction, in milliGals.

Mid-far zone TC: the mid- and far-zone terrain correction, in milliGals.

Drift corr: the drift correction, in milliGals.

Corrected gravity: the final corrected gravity, in milliGals. This is defined as Corrected gravity = gravity + Near-zone TC + Mid-far zone TC + Drift corr .

A.1 C4993

Table 4: Well C4993 Processed gravity

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
2	a	1390.000	16998.5539662	4084.742	-0.094	68.842	0.199	-0.371	0.000	4084.570
3	a	1380.010	16998.5629621	4084.502	-0.091	67.903	0.200	-0.370	0.002	4084.334
4	a	1390.010	16998.5701501	4084.736	-0.088	68.843	0.199	-0.371	0.003	4084.567
5	a	1380.000	16998.5758909	4084.483	-0.085	67.902	0.200	-0.370	0.004	4084.317
6	a	1370.000	16998.5817248	4084.199	-0.082	66.961	0.201	-0.370	0.005	4084.036
7	a	1390.010	16998.5880848	4084.729	-0.079	68.843	0.199	-0.371	0.006	4084.563
8	a	1380.000	16998.5936256	4084.476	-0.075	67.902	0.200	-0.370	0.007	4084.313
9	a	1369.979	16998.5997523	4084.189	-0.072	66.959	0.201	-0.370	0.008	4084.029
10	a	1359.990	16998.6068985	4083.884	-0.067	66.020	0.202	-0.369	0.009	4083.727
11	a	1390.010	16998.6141003	4084.709	-0.061	68.843	0.199	-0.371	0.011	4084.548
12	a	1380.000	16998.6207245	4084.455	-0.056	67.902	0.200	-0.370	0.012	4084.297
13	a	1369.990	16998.6259012	4084.185	-0.051	66.960	0.201	-0.370	0.013	4084.029
14	a	1359.990	16998.6309044	4083.857	-0.047	66.020	0.202	-0.369	0.014	4083.704
15	a	1350.000	16998.6385940	4083.608	-0.039	65.080	0.203	-0.369	0.015	4083.458
16	a	1369.990	16998.6462799	4084.183	-0.032	66.960	0.201	-0.370	0.016	4084.031
17	a	1360.000	16998.6528459	4083.855	-0.025	66.021	0.202	-0.369	0.017	4083.706
18	a	1350.000	16998.6588378	4083.592	-0.018	65.080	0.203	-0.369	0.018	4083.445
19	a	1350.000	16998.6631015	4083.626	-0.014	65.080	0.203	-0.369	0.019	4083.480
20	a	1339.979	16998.6694234	4083.433	-0.007	64.138	0.204	-0.368	0.020	4083.290
22	a	1360.000	16998.6792583	4083.823	0.005	66.021	0.202	-0.369	0.022	4083.678
23	a	1350.000	16998.6850678	4083.574	0.012	65.080	0.203	-0.369	0.023	4083.432
24	a	1350.000	16998.6897038	4083.620	0.017	65.080	0.203	-0.369	0.024	4083.479
25	a	1340.000	16998.6954066	4083.423	0.024	64.140	0.204	-0.368	0.025	4083.284
26	a	1330.000	16998.7042227	4083.215	0.035	63.199	0.205	-0.367	0.026	4083.079
27	a	1349.979	16998.7144050	4083.634	0.047	65.078	0.203	-0.369	0.028	4083.497
28	a	1340.021	16998.7207638	4083.425	0.055	64.142	0.204	-0.368	0.029	4083.291
29	a	1330.021	16998.7270078	4083.222	0.063	63.201	0.205	-0.367	0.030	4083.090

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
30	a	1350.382	16998.7497986	4083.628	0.089	65.116	0.203	-0.369	0.034	4083.497
31	a	1340.000	16998.7576152	4083.417	0.098	64.140	0.204	-0.368	0.036	4083.289
32	a	1330.000	16998.7621795	4083.213	0.103	63.199	0.205	-0.367	0.037	4083.088
33	a	1320.000	16998.7662502	4083.005	0.107	62.259	0.206	-0.367	0.037	4082.882
1	b	1340.000	16998.7748749	4083.419	0.115	64.140	0.204	-0.368	0.039	4083.294
2	b	1330.000	16998.7796378	4083.210	0.120	63.199	0.205	-0.367	0.040	4083.088
3	b	1320.000	16998.7843443	4083.003	0.124	62.259	0.206	-0.367	0.040	4082.883
4	b	1310.000	16998.7891253	4082.798	0.128	61.318	0.207	-0.366	0.041	4082.681
5	b	1330.021	16998.7950485	4083.203	0.133	63.201	0.205	-0.367	0.042	4083.083
6	b	1320.000	16998.7992704	4082.987	0.136	62.259	0.206	-0.367	0.043	4082.870
7	b	1310.000	16998.8035141	4082.793	0.139	61.318	0.207	-0.366	0.044	4082.678
8	b	1300.000	16998.8079328	4082.585	0.142	60.378	0.208	-0.366	0.045	4082.472
9	b	1320.021	16998.8149299	4082.994	0.146	62.261	0.206	-0.367	0.046	4082.880
10	b	1310.000	16998.8191563	4082.786	0.149	61.318	0.207	-0.366	0.047	4082.674
11	b	1300.000	16998.8233600	4082.579	0.151	60.378	0.208	-0.366	0.047	4082.469
12	b	1300.000	16998.8274964	4082.614	0.153	60.378	0.208	-0.366	0.048	4082.505
13	b	1290.000	16998.8364451	4082.433	0.156	59.437	0.210	-0.365	0.050	4082.327
15	b	1310.000	16998.8440256	4082.780	0.158	61.318	0.207	-0.366	0.051	4082.672
16	b	1300.000	16998.8481811	4082.580	0.159	60.378	0.208	-0.366	0.052	4082.475
17	b	1300.000	16998.8518094	4082.617	0.159	60.378	0.208	-0.366	0.052	4082.512
19	b	1290.000	16998.8827581	4082.425	0.157	59.437	0.210	-0.365	0.058	4082.327
20	b	1289.958	16998.8970320	4082.416	0.152	59.433	0.210	-0.365	0.060	4082.321
21	b	1290.021	16999.0036144	4082.390	0.056	59.439	0.210	-0.365	0.079	4082.314
22	b	1280.021	16999.0082531	4082.181	0.050	58.499	0.211	-0.364	0.080	4082.107
23	b	1300.000	16999.0148446	4082.592	0.042	60.378	0.208	-0.366	0.081	4082.516
24	b	1300.000	16999.0187885	4082.588	0.038	60.378	0.208	-0.366	0.082	4082.513
25	b	1290.000	16999.0231494	4082.373	0.032	59.437	0.210	-0.365	0.082	4082.300
26	b	1290.000	16999.0268682	4082.378	0.028	59.437	0.210	-0.365	0.083	4082.306

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
27	b	1280.000	16999.0310602	4082.170	0.023	58.497	0.211	-0.364	0.084	4082.100
28	b	1270.000	16999.0355703	4081.957	0.018	57.556	0.212	-0.364	0.085	4081.890
29	b	1300.000	16999.0421921	4082.542	0.010	60.378	0.208	-0.366	0.086	4082.471
30	b	1300.000	16999.0459891	4082.574	0.006	60.378	0.208	-0.366	0.086	4082.503
31	b	1290.000	16999.0505683	4082.362	0.001	59.437	0.210	-0.365	0.087	4082.294
32	b	1280.000	16999.0547224	4082.165	-0.004	58.497	0.211	-0.364	0.088	4082.099
33	b	1270.000	16999.0588797	4081.958	-0.009	57.556	0.212	-0.364	0.089	4081.895
34	b	1260.000	16999.0629729	4081.734	-0.013	56.616	0.213	-0.363	0.089	4081.673
35	b	1280.000	16999.0694849	4082.158	-0.020	58.497	0.211	-0.364	0.091	4082.095
36	b	1269.990	16999.0749909	4081.951	-0.025	57.555	0.212	-0.364	0.092	4081.890
37	b	1260.031	16999.0793336	4081.728	-0.030	56.619	0.213	-0.363	0.092	4081.670
38	b	1250.000	16999.0834742	4081.506	-0.034	55.675	0.214	-0.362	0.093	4081.450
39	b	1270.021	16999.0907513	4081.942	-0.040	57.558	0.212	-0.364	0.094	4081.884
40	b	1259.990	16999.0955293	4081.724	-0.045	56.615	0.213	-0.363	0.095	4081.669
41	b	1250.010	16999.1074179	4081.507	-0.054	55.676	0.214	-0.362	0.097	4081.456
42	b	1240.000	16999.1126096	4081.268	-0.058	54.735	0.215	-0.362	0.098	4081.219
44	b	1260.020	16999.1217142	4081.718	-0.065	56.618	0.213	-0.363	0.100	4081.667
45	b	1250.015	16999.1272648	4081.499	-0.068	55.677	0.214	-0.362	0.101	4081.451
46	b	1240.010	16999.1330548	4081.270	-0.072	54.736	0.215	-0.362	0.102	4081.225
47	b	1240.010	16999.1380930	4081.301	-0.074	54.736	0.215	-0.362	0.103	4081.257
48	b	1230.000	16999.1440676	4081.067	-0.077	53.794	0.216	-0.361	0.104	4081.025
49	b	1250.010	16999.1549406	4081.491	-0.082	55.676	0.214	-0.362	0.106	4081.448
50	b	1240.010	16999.1603587	4081.260	-0.084	54.736	0.215	-0.362	0.107	4081.220
51	b	1240.010	16999.1646662	4081.294	-0.086	54.736	0.215	-0.362	0.107	4081.254
52	b	1230.010	16999.1698339	4081.063	-0.087	53.795	0.216	-0.361	0.108	4081.026
53	b	1220.000	16999.1747721	4080.820	-0.088	52.854	0.217	-0.360	0.109	4080.786
55	b	1240.000	16999.1844528	4081.246	-0.090	54.735	0.215	-0.362	0.111	4081.210
56	b	1240.000	16999.1883897	4081.281	-0.091	54.735	0.215	-0.362	0.112	4081.245

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
57	b	1230.000	16999.1961746	4081.054	-0.092	53.794	0.216	-0.361	0.113	4081.022
58	b	1220.000	16999.2010997	4080.808	-0.092	52.854	0.217	-0.360	0.114	4080.778
59	b	1210.010	16999.2063264	4080.550	-0.093	51.914	0.218	-0.360	0.115	4080.523
60	b	1230.000	16999.2134655	4081.062	-0.093	53.794	0.216	-0.361	0.116	4081.033
61	b	1219.990	16999.2198708	4080.815	-0.092	52.853	0.217	-0.360	0.117	4080.788
62	b	1210.010	16999.2246639	4080.554	-0.092	51.914	0.218	-0.360	0.118	4080.530
63	b	1200.000	16999.2298256	4080.293	-0.092	50.973	0.219	-0.359	0.119	4080.272
64	b	1220.020	16999.2370050	4080.817	-0.091	52.856	0.217	-0.361	0.120	4080.793
65	b	1210.010	16999.2451582	4080.554	-0.090	51.914	0.218	-0.360	0.121	4080.534
66	b	1200.000	16999.2499725	4080.296	-0.089	50.973	0.219	-0.359	0.122	4080.278
67	b	1190.010	16999.2549073	4079.965	-0.089	50.033	0.220	-0.359	0.123	4079.950
68	b	1209.940	16999.2632733	4080.548	-0.087	51.908	0.218	-0.360	0.125	4080.531
69	b	1199.980	16999.2703710	4080.280	-0.086	50.971	0.219	-0.359	0.126	4080.266
70	b	1190.010	16999.2758871	4079.961	-0.085	50.033	0.220	-0.359	0.127	4079.950
71	b	1190.010	16999.2826195	4079.989	-0.084	50.033	0.220	-0.359	0.128	4079.979
72	b	1180.000	16999.2994281	4079.511	-0.080	49.092	0.221	-0.358	0.131	4079.505
73	b	1200.020	16999.3064444	4080.319	-0.079	50.975	0.219	-0.359	0.132	4080.311
74	b	1200.020	16999.3111843	4080.288	-0.078	50.975	0.219	-0.359	0.133	4080.281
75	b	1190.000	16999.3171287	4079.981	-0.077	50.032	0.220	-0.358	0.134	4079.977
76	b	1179.990	16999.3228129	4079.497	-0.076	49.091	0.221	-0.358	0.135	4079.496
77	b	1169.990	16999.3293034	4078.989	-0.076	48.150	0.222	-0.357	0.136	4078.990
78	b	1169.990	16999.3347280	4079.013	-0.075	48.150	0.222	-0.357	0.137	4079.015
79	b	1199.980	16999.3431497	4080.270	-0.074	50.971	0.219	-0.359	0.139	4080.269
80	b	1199.980	16999.3479996	4080.291	-0.074	50.971	0.219	-0.359	0.140	4080.290
81	b	1190.000	16999.3558394	4079.978	-0.073	50.032	0.220	-0.358	0.141	4079.981
82	b	1179.990	16999.3611809	4079.486	-0.073	49.091	0.221	-0.358	0.142	4079.491
83	b	1170.000	16999.3661709	4078.979	-0.073	48.151	0.222	-0.357	0.143	4078.987
84	b	1170.000	16999.3709119	4079.006	-0.073	48.151	0.222	-0.357	0.144	4079.015

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
85	b	1159.990	16999.3765150	4078.546	-0.073	47.210	0.223	-0.357	0.145	4078.557
87	b	1200.020	16999.3869977	4080.257	-0.073	50.975	0.219	-0.359	0.146	4080.263
88	b	1200.020	16999.3908937	4080.281	-0.073	50.975	0.219	-0.359	0.147	4080.288
89	b	1190.000	16999.3961513	4079.957	-0.073	50.032	0.220	-0.358	0.148	4079.967
90	b	1180.010	16999.4014586	4079.474	-0.074	49.093	0.221	-0.358	0.149	4079.486
91	b	1170.010	16999.4070817	4078.972	-0.075	48.152	0.222	-0.357	0.150	4078.987
92	b	1170.000	16999.4112654	4078.994	-0.075	48.151	0.222	-0.357	0.151	4079.010
93	b	1160.020	16999.4167253	4078.534	-0.076	47.213	0.223	-0.357	0.152	4078.552
94	b	1150.010	16999.4230905	4078.112	-0.077	46.271	0.224	-0.356	0.153	4078.133
95	b	1169.980	16999.4523530	4078.964	-0.082	48.149	0.222	-0.357	0.158	4078.987
96	b	1169.980	16999.4611194	4078.980	-0.084	48.149	0.222	-0.357	0.159	4079.005
97	b	1159.990	16999.4667775	4078.517	-0.085	47.210	0.223	-0.357	0.160	4078.544
98	b	1150.000	16999.4724137	4078.086	-0.086	46.270	0.224	-0.356	0.161	4078.116
99	b	1139.980	16999.4797856	4077.678	-0.087	45.328	0.226	-0.355	0.163	4077.711
100	b	1139.980	16999.4856439	4077.698	-0.088	45.328	0.226	-0.355	0.164	4077.732
101	b	1159.930	16999.4994207	4078.506	-0.090	47.204	0.223	-0.356	0.166	4078.539
102	b	1150.000	16999.5052122	4078.082	-0.091	46.270	0.224	-0.356	0.167	4078.118
103	b	1150.000	16999.5091067	4078.101	-0.092	46.270	0.224	-0.356	0.168	4078.137
104	b	1140.021	16999.5160541	4077.697	-0.092	45.332	0.226	-0.355	0.169	4077.737
105	b	1129.990	16999.5235915	4077.271	-0.093	44.388	0.227	-0.354	0.170	4077.314
106	b	1129.990	16999.5283675	4077.285	-0.093	44.388	0.227	-0.354	0.171	4077.328
109	b	1150.000	16999.5487947	4078.066	-0.093	46.270	0.224	-0.356	0.175	4078.109
110	b	1150.000	16999.5531645	4078.088	-0.093	46.270	0.224	-0.356	0.176	4078.132
111	b	1139.958	16999.5596162	4077.677	-0.092	45.326	0.226	-0.355	0.177	4077.724
112	b	1129.979	16999.5657343	4077.255	-0.091	44.387	0.227	-0.354	0.178	4077.305
113	b	1129.979	16999.5703330	4077.274	-0.090	44.387	0.227	-0.354	0.179	4077.325
114	b	1119.979	16999.5767595	4076.862	-0.089	43.447	0.228	-0.354	0.180	4076.916
115	b	1150.000	16999.5875966	4078.053	-0.086	46.270	0.224	-0.356	0.182	4078.103

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
116	b	1150.000	16999.5926264	4078.077	-0.084	46.270	0.224	-0.356	0.183	4078.128
117	b	1139.990	16999.5985540	4077.672	-0.082	45.329	0.226	-0.355	0.184	4077.726
118	b	1129.979	16999.6053125	4077.239	-0.079	44.387	0.227	-0.354	0.185	4077.296
119	b	1129.979	16999.6094502	4077.256	-0.077	44.387	0.227	-0.354	0.186	4077.314
120	b	1120.021	16999.6159399	4076.857	-0.073	43.451	0.228	-0.354	0.187	4076.918
121	b	1110.000	16999.6224550	4076.428	-0.070	42.508	0.229	-0.353	0.188	4076.492
122	b	1110.000	16999.6280916	4076.442	-0.066	42.508	0.229	-0.353	0.189	4076.507
124	b	1129.958	16999.6385843	4077.232	-0.059	44.385	0.227	-0.354	0.191	4077.295
125	b	1129.958	16999.6428278	4077.250	-0.056	44.385	0.227	-0.354	0.191	4077.314
126	b	1119.906	16999.6502052	4076.841	-0.051	43.440	0.228	-0.354	0.193	4076.908
127	b	1109.990	16999.6597923	4076.407	-0.043	42.507	0.229	-0.353	0.194	4076.477
128	b	1100.000	16999.6662944	4075.988	-0.037	41.568	0.230	-0.352	0.195	4076.061
129	b	1119.990	16999.6763306	4076.833	-0.028	43.448	0.228	-0.354	0.197	4076.904
130	b	1110.000	16999.6828283	4076.411	-0.021	42.508	0.229	-0.353	0.198	4076.485
131	b	1110.000	16999.6867124	4076.436	-0.018	42.508	0.229	-0.353	0.199	4076.511
132	b	1100.000	16999.6942963	4075.986	-0.010	41.568	0.230	-0.352	0.200	4076.064
133	b	1089.990	16999.7011368	4075.628	-0.003	40.627	0.231	-0.351	0.202	4075.709
134	b	1109.990	16999.7091373	4076.392	0.006	42.507	0.229	-0.353	0.203	4076.471
135	b	1109.990	16999.7137090	4076.417	0.011	42.507	0.229	-0.353	0.204	4076.497
136	b	1099.990	16999.7216186	4075.973	0.020	41.567	0.230	-0.352	0.205	4076.056
137	b	1089.969	16999.7278187	4075.620	0.026	40.625	0.231	-0.351	0.206	4075.706
138	b	1079.990	16999.7443217	4075.376	0.045	39.686	0.232	-0.351	0.209	4075.466
139	b	1079.990	16999.7488680	4075.405	0.050	39.686	0.232	-0.351	0.210	4075.496
141	b	1110.000	16999.7572873	4076.384	0.059	42.508	0.229	-0.353	0.211	4076.471
142	b	1110.000	16999.7611273	4076.412	0.063	42.508	0.229	-0.353	0.212	4076.500
143	b	1100.000	16999.7658872	4075.956	0.068	41.568	0.230	-0.352	0.213	4076.047
144	b	1090.000	16999.7699885	4075.606	0.072	40.627	0.231	-0.352	0.214	4075.699
145	b	1080.000	16999.7740900	4075.364	0.077	39.687	0.232	-0.351	0.214	4075.460

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
146	b	1080.000	16999.7777778	4075.402	0.080	39.687	0.232	-0.351	0.215	4075.498
147	b	1070.000	16999.7819484	4075.164	0.085	38.747	0.233	-0.350	0.216	4075.263
148	b	1090.000	16999.7882054	4075.607	0.091	40.627	0.231	-0.352	0.217	4075.703
149	b	1080.000	16999.7921144	4075.369	0.094	39.687	0.232	-0.351	0.218	4075.468
150	b	1080.000	16999.7958891	4075.404	0.098	39.687	0.232	-0.351	0.218	4075.504
151	b	1070.000	16999.7998146	4075.164	0.101	38.747	0.233	-0.350	0.219	4075.266
152	b	1060.000	16999.8038250	4074.932	0.105	37.806	0.234	-0.349	0.220	4075.036
153	b	1080.000	16999.8093792	4075.410	0.110	39.687	0.232	-0.351	0.221	4075.512
154	b	1070.021	16999.8136318	4075.169	0.113	38.748	0.233	-0.350	0.221	4075.273
155	b	1060.000	16999.8179753	4074.934	0.116	37.806	0.234	-0.349	0.222	4075.041
156	b	1050.000	16999.8219097	4074.695	0.119	36.866	0.235	-0.349	0.223	4074.805
157	b	1070.000	16999.8276468	4075.166	0.123	38.747	0.233	-0.350	0.224	4075.273
158	b	1060.000	16999.8322692	4074.928	0.126	37.806	0.234	-0.349	0.225	4075.037
159	b	1050.000	16999.8364172	4074.689	0.129	36.866	0.235	-0.349	0.225	4074.801
160	b	1040.000	16999.8405120	4074.452	0.131	35.925	0.236	-0.348	0.226	4074.567
161	b	1060.000	16999.8460245	4074.932	0.134	37.806	0.234	-0.349	0.227	4075.044
162	b	1050.000	16999.8500499	4074.692	0.135	36.866	0.235	-0.349	0.228	4074.807
163	b	1040.020	16999.8542267	4074.446	0.137	35.927	0.236	-0.348	0.229	4074.563
164	b	1040.020	16999.8580889	4074.469	0.139	35.927	0.236	-0.348	0.229	4074.587
165	b	1030.000	16999.8620821	4074.239	0.140	34.985	0.238	-0.347	0.230	4074.359
166	b	1050.000	16999.8682329	4074.691	0.142	36.866	0.235	-0.349	0.231	4074.809
167	b	1040.000	16999.8722721	4074.449	0.143	35.925	0.236	-0.348	0.232	4074.569
168	b	1040.000	16999.8756611	4074.469	0.143	35.925	0.236	-0.348	0.232	4074.590
169	b	1030.000	16999.8796053	4074.234	0.144	34.985	0.238	-0.347	0.233	4074.357
170	b	1020.000	16999.8841176	4073.992	0.144	34.044	0.239	-0.346	0.234	4074.118
171	b	1040.000	16999.8899500	4074.450	0.144	35.925	0.236	-0.348	0.235	4074.573
172	b	1040.000	16999.8932862	4074.468	0.144	35.925	0.236	-0.348	0.235	4074.592
173	b	1030.000	16999.8973740	4074.222	0.144	34.985	0.238	-0.347	0.236	4074.348

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
174	b	1020.000	16999.9013696	4073.977	0.144	34.044	0.239	-0.346	0.237	4074.106
175	b	1010.010	16999.9053128	4073.748	0.143	33.105	0.240	-0.346	0.238	4073.880
176	b	1030.031	16999.9107796	4074.222	0.142	34.988	0.238	-0.347	0.238	4074.351
177	b	1020.000	16999.9147012	4073.979	0.141	34.044	0.239	-0.346	0.239	4074.110
178	b	1010.000	16999.9185233	4073.741	0.140	33.104	0.240	-0.346	0.240	4073.875
179	b	1000.000	16999.9225043	4073.493	0.138	32.163	0.241	-0.345	0.241	4073.629
180	b	1020.020	16999.9285573	4073.983	0.136	34.046	0.239	-0.346	0.242	4074.117
181	b	1010.000	16999.9325513	4073.736	0.134	33.104	0.240	-0.346	0.242	4073.872
182	b	1000.000	16999.9365249	4073.494	0.132	32.163	0.241	-0.345	0.243	4073.633
183	b	990.000	16999.9407378	4073.201	0.130	31.223	0.242	-0.344	0.244	4073.343
184	b	1010.000	16999.9467680	4073.725	0.127	33.104	0.240	-0.346	0.245	4073.864
185	b	1000.000	16999.9529863	4073.500	0.123	32.163	0.241	-0.345	0.246	4073.642
186	b	990.000	16999.9571291	4073.188	0.120	31.223	0.242	-0.344	0.247	4073.332
187	b	990.000	16999.9609186	4073.200	0.117	31.223	0.242	-0.344	0.247	4073.345
188	b	980.000	16999.9652918	4072.823	0.114	30.282	0.243	-0.343	0.248	4072.971
189	b	1000.000	16999.9716891	4073.500	0.109	32.163	0.241	-0.345	0.249	4073.645
190	b	990.021	16999.9762140	4073.196	0.105	31.225	0.242	-0.344	0.250	4073.344
191	b	990.021	16999.9800061	4073.211	0.102	31.225	0.242	-0.344	0.251	4073.359
192	b	980.000	16999.9841247	4072.830	0.098	30.282	0.243	-0.343	0.251	4072.981
193	b	970.021	16999.9885299	4072.549	0.094	29.344	0.244	-0.343	0.252	4072.703
194	b	989.979	16999.9944050	4073.189	0.089	31.221	0.242	-0.344	0.253	4073.340
195	b	989.979	16999.9980633	4073.203	0.085	31.221	0.242	-0.344	0.254	4073.355
196	b	980.000	17000.0029133	4072.825	0.080	30.282	0.243	-0.343	0.255	4072.979
197	b	970.000	17000.0068656	4072.535	0.076	29.342	0.244	-0.343	0.255	4072.692
198	b	960.000	17000.0110402	4072.283	0.072	28.401	0.245	-0.342	0.256	4072.443
199	b	980.021	17000.0175894	4072.825	0.065	30.284	0.243	-0.343	0.257	4072.982
200	b	970.000	17000.0216936	4072.535	0.061	29.342	0.244	-0.343	0.258	4072.694
201	b	960.000	17000.0258284	4072.277	0.057	28.401	0.245	-0.342	0.259	4072.439

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
202	b	950.000	17000.0313415	4072.011	0.051	27.461	0.246	-0.341	0.260	4072.176
203	b	970.000	17000.0373223	4072.541	0.044	29.342	0.244	-0.343	0.261	4072.703
204	b	960.021	17000.0418551	4072.284	0.039	28.403	0.245	-0.342	0.262	4072.449
205	b	950.021	17000.0463701	4072.016	0.034	27.463	0.246	-0.341	0.262	4072.184
206	b	950.021	17000.0506872	4072.031	0.030	27.463	0.246	-0.341	0.263	4072.199
207	b	940.000	17000.0553677	4071.744	0.025	26.520	0.247	-0.340	0.264	4071.915
208	b	960.021	17000.0613878	4072.286	0.018	28.403	0.245	-0.342	0.265	4072.454
209	b	950.021	17000.0663493	4072.012	0.013	27.463	0.246	-0.341	0.266	4072.183
210	b	950.021	17000.0702144	4072.033	0.009	27.463	0.246	-0.341	0.266	4072.205
211	b	940.021	17000.0745374	4071.760	0.004	26.522	0.247	-0.340	0.267	4071.934
212	b	930.000	17000.0788658	4071.347	0.000	25.580	0.248	-0.339	0.268	4071.524
213	b	950.000	17000.0846182	4072.007	-0.006	27.461	0.246	-0.341	0.269	4072.181
214	b	950.000	17000.0881171	4072.024	-0.009	27.461	0.246	-0.341	0.270	4072.199
215	b	940.000	17000.0924211	4071.766	-0.014	26.520	0.247	-0.340	0.270	4071.944
216	b	930.000	17000.0972651	4071.352	-0.018	25.580	0.248	-0.339	0.271	4071.532
217	b	920.000	17000.1015584	4070.834	-0.022	24.640	0.250	-0.339	0.272	4071.017
218	b	940.010	17000.1091586	4071.775	-0.029	26.521	0.247	-0.340	0.273	4071.955
219	b	930.010	17000.1149513	4071.361	-0.034	25.581	0.248	-0.340	0.274	4071.544
220	b	920.030	17000.1202641	4070.843	-0.038	24.642	0.250	-0.339	0.275	4071.029
221	b	920.030	17000.1254906	4070.858	-0.043	24.642	0.250	-0.339	0.276	4071.045
222	b	910.020	17000.1391256	4070.353	-0.053	23.701	0.251	-0.338	0.279	4070.544
223	b	930.010	17000.1480250	4071.366	-0.058	25.581	0.248	-0.340	0.280	4071.555
224	b	920.000	17000.1536846	4070.843	-0.062	24.640	0.250	-0.339	0.281	4071.035
225	b	920.000	17000.1580085	4070.857	-0.064	24.640	0.250	-0.339	0.282	4071.050
226	b	910.000	17000.1636454	4070.344	-0.067	23.699	0.251	-0.338	0.283	4070.540
227	b	900.020	17000.1688983	4069.855	-0.070	22.760	0.252	-0.337	0.284	4070.053
228	b	920.020	17000.1768870	4070.843	-0.073	24.641	0.250	-0.339	0.285	4071.039
229	b	920.020	17000.1814485	4070.856	-0.075	24.641	0.250	-0.339	0.286	4071.053

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
230	b	910.020	17000.1864371	4070.343	-0.077	23.701	0.251	-0.338	0.287	4070.543
231	b	899.980	17000.1917530	4069.845	-0.079	22.757	0.252	-0.337	0.288	4070.048
232	b	899.980	17000.1969887	4069.863	-0.081	22.757	0.252	-0.337	0.289	4070.066
233	b	890.010	17000.2022405	4069.430	-0.082	21.819	0.253	-0.336	0.290	4069.636
234	b	910.010	17000.2093227	4070.341	-0.083	23.700	0.251	-0.338	0.291	4070.545
235	b	900.010	17000.2144165	4069.852	-0.084	22.760	0.252	-0.337	0.292	4070.058
236	b	900.010	17000.2184648	4069.867	-0.085	22.760	0.252	-0.337	0.293	4070.074
237	b	890.020	17000.2236658	4069.434	-0.086	21.820	0.253	-0.336	0.293	4069.644
239	b	900.010	17000.2356147	4069.840	-0.086	22.760	0.252	-0.337	0.296	4070.050
240	b	900.010	17000.2395551	4069.855	-0.087	22.760	0.252	-0.337	0.296	4070.066
241	b	890.000	17000.2444017	4069.418	-0.087	21.818	0.253	-0.336	0.297	4069.632
242	b	880.000	17000.2500933	4068.970	-0.087	20.878	0.254	-0.336	0.298	4069.186
243	b	880.000	17000.2551397	4068.984	-0.086	20.878	0.254	-0.336	0.299	4069.201
245	b	890.020	17000.2720002	4069.421	-0.085	21.820	0.253	-0.336	0.302	4069.639
246	b	880.010	17000.2786430	4068.972	-0.085	20.879	0.254	-0.336	0.303	4069.193
247	b	880.010	17000.2823089	4068.987	-0.084	20.879	0.254	-0.336	0.304	4069.209
1	c	900.000	17000.6171055	4070.771	-0.076	22.759	0.252	-0.337	-0.614	4070.072
2	c	890.000	17000.6256009	4070.332	-0.073	21.818	0.253	-0.336	-0.613	4069.636
3	c	879.990	17000.6315530	4069.887	-0.071	20.877	0.254	-0.335	-0.612	4069.193
4	c	870.000	17000.6365357	4069.454	-0.069	19.937	0.255	-0.335	-0.612	4068.762
5	c	890.000	17000.6433756	4070.332	-0.065	21.818	0.253	-0.336	-0.611	4069.638
6	c	879.990	17000.6491273	4069.881	-0.062	20.877	0.254	-0.335	-0.610	4069.189
7	c	879.990	17000.6542015	4069.891	-0.060	20.877	0.254	-0.335	-0.609	4069.200
8	c	869.979	17000.6603099	4069.469	-0.056	19.935	0.255	-0.335	-0.609	4068.781
9	c	860.010	17000.6660434	4069.023	-0.053	18.998	0.256	-0.334	-0.608	4068.337
10	c	860.010	17000.6704426	4069.028	-0.050	18.998	0.256	-0.334	-0.607	4068.343
11	c	879.990	17000.6803615	4069.871	-0.043	20.877	0.254	-0.335	-0.606	4069.183
12	c	879.990	17000.6853092	4069.894	-0.040	20.877	0.254	-0.335	-0.606	4069.207

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
13	c	870.000	17000.6905687	4069.460	-0.036	19.937	0.255	-0.335	-0.605	4068.775
14	c	860.000	17000.6958565	4069.013	-0.032	18.997	0.256	-0.334	-0.604	4068.331
15	c	860.000	17000.6998866	4069.022	-0.028	18.997	0.256	-0.334	-0.604	4068.340
16	c	850.010	17000.7052293	4068.596	-0.024	18.057	0.257	-0.333	-0.603	4067.917
17	c	870.000	17000.7140895	4069.442	-0.017	19.937	0.255	-0.335	-0.602	4068.760
18	c	860.000	17000.7200710	4069.000	-0.011	18.997	0.256	-0.334	-0.601	4068.321
19	c	860.000	17000.7237759	4069.005	-0.008	18.997	0.256	-0.334	-0.601	4068.326
20	c	850.000	17000.7286227	4068.585	-0.004	18.056	0.257	-0.333	-0.600	4067.909
21	c	839.979	17000.7447805	4068.130	0.012	17.114	0.258	-0.332	-0.598	4067.458
22	c	839.979	17000.7503804	4068.142	0.017	17.114	0.258	-0.332	-0.598	4067.470
24	c	869.979	17000.7619297	4069.448	0.028	19.935	0.255	-0.335	-0.596	4068.772
25	c	860.000	17000.7665240	4069.004	0.032	18.997	0.256	-0.334	-0.596	4068.331
26	c	860.000	17000.7702816	4069.000	0.036	18.997	0.256	-0.334	-0.595	4068.327
27	c	850.000	17000.7745406	4068.574	0.040	18.056	0.257	-0.333	-0.595	4067.903
28	c	840.000	17000.7787880	4068.109	0.044	17.116	0.258	-0.332	-0.594	4067.441
29	c	840.000	17000.7835613	4068.125	0.048	17.116	0.258	-0.332	-0.594	4067.457
30	c	830.000	17000.7882196	4067.827	0.053	16.175	0.259	-0.331	-0.593	4067.162
31	c	850.000	17000.7950420	4068.569	0.059	18.056	0.257	-0.333	-0.592	4067.901
32	c	840.000	17000.7992699	4068.119	0.063	17.116	0.258	-0.332	-0.592	4067.453
33	c	840.000	17000.8034428	4068.125	0.067	17.116	0.258	-0.332	-0.591	4067.460
34	c	830.000	17000.8080008	4067.822	0.070	16.175	0.259	-0.331	-0.591	4067.159
35	c	820.000	17000.8121904	4067.597	0.074	15.235	0.260	-0.331	-0.590	4066.937
36	c	840.000	17000.8185515	4068.099	0.079	17.116	0.258	-0.332	-0.589	4067.436
37	c	840.000	17000.8220658	4068.110	0.082	17.116	0.258	-0.332	-0.589	4067.447
38	c	830.000	17000.8264344	4067.811	0.085	16.175	0.259	-0.331	-0.588	4067.151
39	c	820.000	17000.8306593	4067.594	0.089	15.235	0.260	-0.331	-0.588	4066.936
40	c	810.000	17000.8351823	4067.373	0.092	14.295	0.261	-0.330	-0.587	4066.717
41	c	830.000	17000.8407737	4067.810	0.096	16.175	0.259	-0.331	-0.586	4067.151

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
42	c	820.000	17000.8450943	4067.589	0.099	15.235	0.260	-0.331	-0.586	4066.933
43	c	810.000	17000.8490749	4067.358	0.101	14.295	0.261	-0.330	-0.585	4066.704
44	c	800.000	17000.8528930	4067.120	0.103	13.354	0.262	-0.329	-0.585	4066.468
45	c	820.021	17000.8585660	4067.593	0.107	15.237	0.260	-0.331	-0.584	4066.938
46	c	810.000	17000.8623949	4067.359	0.109	14.295	0.261	-0.330	-0.584	4066.707
47	c	800.000	17000.8670535	4067.128	0.111	13.354	0.262	-0.329	-0.583	4066.478
48	c	800.000	17000.8711694	4067.136	0.113	13.354	0.262	-0.329	-0.583	4066.487
49	c	790.000	17000.8795077	4066.914	0.116	12.414	0.263	-0.328	-0.582	4066.267
50	c	810.000	17000.8858290	4067.359	0.118	14.295	0.261	-0.330	-0.581	4066.710
51	c	800.000	17000.8903325	4067.123	0.119	13.354	0.262	-0.329	-0.580	4066.476
52	c	800.000	17000.8946167	4067.134	0.120	13.354	0.262	-0.329	-0.580	4066.488
53	c	790.000	17000.8984642	4066.907	0.121	12.414	0.263	-0.328	-0.579	4066.263
54	c	780.000	17000.9025140	4066.667	0.122	11.473	0.264	-0.327	-0.579	4066.025
55	c	800.000	17000.9087495	4067.116	0.122	13.354	0.262	-0.329	-0.578	4066.471
56	c	800.000	17000.9129399	4067.130	0.123	13.354	0.262	-0.329	-0.578	4066.486
57	c	790.000	17000.9171936	4066.905	0.123	12.414	0.263	-0.328	-0.577	4066.263
58	c	780.000	17000.9213782	4066.663	0.123	11.473	0.264	-0.327	-0.577	4066.024
59	c	770.021	17000.9255420	4066.427	0.122	10.535	0.265	-0.326	-0.576	4065.790
60	c	790.000	17000.9317009	4066.906	0.122	12.414	0.263	-0.328	-0.575	4066.266
61	c	780.000	17000.9363237	4066.665	0.121	11.473	0.264	-0.327	-0.575	4066.027
62	c	770.000	17000.9409121	4066.432	0.120	10.533	0.265	-0.326	-0.574	4065.797
63	c	760.000	17000.9448173	4066.176	0.119	9.592	0.266	-0.325	-0.574	4065.543
64	c	780.000	17000.9501285	4066.666	0.117	11.473	0.264	-0.327	-0.573	4066.030
65	c	770.021	17000.9545751	4066.432	0.116	10.535	0.265	-0.326	-0.572	4065.798
66	c	760.021	17000.9587320	4066.175	0.114	9.594	0.266	-0.326	-0.572	4065.544
67	c	750.000	17000.9628782	4065.849	0.112	8.652	0.267	-0.325	-0.571	4065.220
68	c	770.000	17000.9684412	4066.423	0.110	10.533	0.265	-0.326	-0.571	4065.791
69	c	760.000	17000.9726416	4066.166	0.108	9.592	0.266	-0.325	-0.570	4065.537

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
70	c	750.021	17000.9766293	4065.853	0.106	8.654	0.267	-0.325	-0.570	4065.226
71	c	750.021	17000.9807663	4065.859	0.103	8.654	0.267	-0.325	-0.569	4065.232
72	c	740.000	17000.9858075	4065.439	0.100	7.712	0.268	-0.324	-0.569	4064.815
73	c	760.000	17000.9928240	4066.164	0.096	9.592	0.266	-0.325	-0.568	4065.537
74	c	750.000	17000.9967847	4065.855	0.093	8.652	0.267	-0.325	-0.567	4065.230
75	c	750.000	17001.0004056	4065.864	0.090	8.652	0.267	-0.325	-0.567	4065.240
76	c	740.021	17001.0046669	4065.452	0.087	7.713	0.268	-0.324	-0.566	4064.830
77	c	730.000	17001.0089434	4065.004	0.084	6.771	0.269	-0.323	-0.566	4064.384
78	c	750.000	17001.0146803	4065.844	0.080	8.652	0.267	-0.325	-0.565	4065.221
79	c	750.000	17001.0184107	4065.853	0.077	8.652	0.267	-0.325	-0.565	4065.231
80	c	740.000	17001.0236230	4065.451	0.072	7.712	0.268	-0.324	-0.564	4064.831
81	c	730.000	17001.0279323	4065.004	0.069	6.771	0.269	-0.323	-0.563	4064.387
82	c	730.000	17001.0316751	4065.010	0.065	6.771	0.269	-0.323	-0.563	4064.393
83	c	720.000	17001.0357526	4064.601	0.062	5.831	0.270	-0.322	-0.563	4063.987
84	c	740.000	17001.0420355	4065.436	0.056	7.712	0.268	-0.324	-0.562	4064.819
85	c	730.000	17001.0462543	4064.989	0.052	6.771	0.269	-0.323	-0.561	4064.374
86	c	730.000	17001.0500946	4064.986	0.049	6.771	0.269	-0.323	-0.561	4064.371
87	c	720.021	17001.0542174	4064.611	0.045	5.833	0.270	-0.322	-0.560	4063.999
88	c	710.000	17001.0588976	4064.335	0.040	4.890	0.271	-0.321	-0.560	4063.725
89	c	730.000	17001.0649352	4064.985	0.035	6.771	0.269	-0.323	-0.559	4064.372
90	c	730.000	17001.0683462	4064.993	0.032	6.771	0.269	-0.323	-0.559	4064.381
91	c	720.021	17001.0724109	4064.601	0.028	5.833	0.270	-0.322	-0.558	4063.991
92	c	709.979	17001.0768881	4064.325	0.023	4.888	0.271	-0.321	-0.557	4063.717
93	c	700.000	17001.0811269	4064.117	0.019	3.950	0.272	-0.320	-0.557	4063.512
94	c	720.021	17001.0881867	4064.580	0.013	5.833	0.270	-0.322	-0.556	4063.972
95	c	720.021	17001.0918116	4064.595	0.009	5.833	0.270	-0.322	-0.556	4063.987
96	c	710.010	17001.0960298	4064.314	0.005	4.891	0.271	-0.321	-0.555	4063.709
97	c	700.000	17001.1001924	4064.098	0.002	3.950	0.272	-0.320	-0.555	4063.495

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
98	c	690.000	17001.1050613	4063.893	-0.003	3.009	0.273	-0.320	-0.554	4063.292
99	c	710.010	17001.1208023	4064.313	-0.017	4.891	0.271	-0.321	-0.552	4063.711
100	c	700.000	17001.1256876	4064.100	-0.021	3.950	0.272	-0.320	-0.551	4063.500
101	c	690.000	17001.1304649	4063.893	-0.025	3.009	0.273	-0.320	-0.551	4063.296
102	c	680.000	17001.1349004	4063.680	-0.028	2.069	0.274	-0.319	-0.550	4063.085
103	c	680.000	17001.1394604	4063.698	-0.032	2.069	0.274	-0.319	-0.550	4063.103
104	c	700.010	17001.1452960	4064.103	-0.036	3.951	0.272	-0.320	-0.549	4063.506
105	c	690.000	17001.1494471	4063.905	-0.039	3.009	0.273	-0.320	-0.549	4063.310
106	c	680.000	17001.1536946	4063.683	-0.042	2.069	0.274	-0.319	-0.548	4063.090
107	c	680.000	17001.1573865	4063.700	-0.045	2.069	0.274	-0.319	-0.548	4063.108
108	c	670.000	17001.1667405	4063.489	-0.051	1.129	0.275	-0.318	-0.546	4062.900
109	c	690.000	17001.1729502	4063.899	-0.055	3.009	0.273	-0.320	-0.546	4063.307
110	c	680.010	17001.1781111	4063.676	-0.057	2.070	0.274	-0.319	-0.545	4063.086
111	c	680.010	17001.1826163	4063.691	-0.060	2.070	0.274	-0.319	-0.544	4063.102
112	c	670.000	17001.1877339	4063.486	-0.062	1.129	0.275	-0.318	-0.544	4062.899
113	c	660.010	17001.1924741	4063.281	-0.065	0.189	0.276	-0.317	-0.543	4062.696
115	c	680.000	17001.2020344	4063.660	-0.069	2.069	0.274	-0.319	-0.542	4063.073
116	c	680.000	17001.2053079	4063.683	-0.070	2.069	0.274	-0.319	-0.542	4063.097
117	c	670.000	17001.2096014	4063.477	-0.071	1.129	0.275	-0.318	-0.541	4062.893
118	c	660.000	17001.2139592	4063.263	-0.073	0.188	0.276	-0.317	-0.541	4062.681
119	c	650.000	17001.2186839	4063.058	-0.074	-0.752	0.276	-0.316	-0.540	4062.478
120	c	670.000	17001.2245999	4063.486	-0.076	1.129	0.275	-0.318	-0.539	4062.904
121	c	660.000	17001.2290224	4063.273	-0.077	0.188	0.276	-0.317	-0.539	4062.693
122	c	650.000	17001.2336944	4063.016	-0.078	-0.752	0.276	-0.316	-0.538	4062.438
123	c	640.000	17001.2404199	4062.817	-0.079	-1.693	0.277	-0.315	-0.537	4062.242
124	c	660.000	17001.2465138	4063.247	-0.080	0.188	0.276	-0.317	-0.537	4062.669
125	c	650.000	17001.2508427	4063.033	-0.081	-0.752	0.276	-0.316	-0.536	4062.457
126	c	640.010	17001.2552708	4062.817	-0.081	-1.692	0.277	-0.315	-0.536	4062.244

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
127	c	630.000	17001.2624044	4062.608	-0.082	-2.633	0.278	-0.314	-0.535	4062.037
128	c	650.000	17001.2701101	4063.034	-0.082	-0.752	0.276	-0.316	-0.534	4062.461
129	c	640.000	17001.2748335	4062.824	-0.082	-1.693	0.277	-0.315	-0.533	4062.253
130	c	629.990	17001.2796189	4062.618	-0.082	-2.634	0.278	-0.314	-0.533	4062.049
131	c	620.000	17001.2884747	4062.390	-0.082	-3.574	0.279	-0.313	-0.531	4061.824
132	c	620.000	17001.2930651	4062.414	-0.081	-3.574	0.279	-0.313	-0.531	4061.849
133	c	639.980	17001.2995372	4062.835	-0.081	-1.695	0.277	-0.315	-0.530	4062.267
134	c	630.000	17001.3045832	4062.615	-0.080	-2.633	0.278	-0.314	-0.529	4062.049
135	c	620.000	17001.3095019	4062.396	-0.080	-3.574	0.279	-0.313	-0.529	4061.833
136	c	620.000	17001.3133826	4062.422	-0.079	-3.574	0.279	-0.313	-0.528	4061.859
137	c	610.020	17001.3194638	4062.207	-0.079	-4.512	0.280	-0.312	-0.528	4061.646
138	c	630.000	17001.3270906	4062.612	-0.078	-2.633	0.278	-0.314	-0.527	4062.049
139	c	620.000	17001.3371946	4062.385	-0.076	-3.574	0.279	-0.313	-0.525	4061.825
141	c	610.010	17001.3444094	4062.194	-0.075	-4.513	0.280	-0.312	-0.525	4061.637
142	c	600.010	17001.3494511	4061.975	-0.074	-5.453	0.280	-0.312	-0.524	4061.420
143	c	620.010	17001.3569192	4062.381	-0.073	-3.573	0.279	-0.313	-0.523	4061.823
144	c	620.010	17001.3613289	4062.403	-0.073	-3.573	0.279	-0.313	-0.523	4061.846
145	c	610.010	17001.3661327	4062.195	-0.072	-4.513	0.280	-0.312	-0.522	4061.640
147	c	590.000	17001.3765205	4061.747	-0.070	-6.395	0.281	-0.311	-0.521	4061.197
148	c	610.000	17001.3859239	4062.193	-0.069	-4.514	0.280	-0.312	-0.519	4061.641
149	c	600.000	17001.3909191	4061.982	-0.069	-5.454	0.280	-0.311	-0.519	4061.432
150	c	589.980	17001.3952930	4061.753	-0.068	-6.397	0.281	-0.311	-0.518	4061.205
151	c	579.990	17001.4000241	4061.536	-0.068	-7.336	0.282	-0.310	-0.518	4060.990
152	c	600.000	17001.4066788	4061.986	-0.067	-5.454	0.280	-0.311	-0.517	4061.438
153	c	590.000	17001.4116383	4061.743	-0.067	-6.395	0.281	-0.311	-0.516	4061.197
154	c	580.000	17001.4164586	4061.524	-0.066	-7.335	0.282	-0.310	-0.516	4060.980
155	c	569.990	17001.4210619	4061.287	-0.066	-8.277	0.282	-0.309	-0.515	4060.745
156	c	569.990	17001.4262748	4061.284	-0.066	-8.277	0.282	-0.309	-0.515	4060.743

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
157	c	589.990	17001.4333566	4061.755	-0.065	-6.396	0.281	-0.311	-0.514	4061.212
158	c	580.000	17001.4384190	4061.529	-0.065	-7.335	0.282	-0.310	-0.513	4060.988
159	c	570.000	17001.4449395	4061.293	-0.065	-8.276	0.282	-0.309	-0.512	4060.754
160	c	570.000	17001.4489501	4061.294	-0.065	-8.276	0.282	-0.309	-0.512	4060.756
161	c	559.990	17001.4542600	4061.059	-0.065	-9.217	0.283	-0.308	-0.511	4060.523
162	c	580.010	17001.4626464	4061.519	-0.065	-7.334	0.282	-0.310	-0.510	4060.981
163	c	570.010	17001.4679181	4061.276	-0.065	-8.275	0.282	-0.309	-0.509	4060.740
164	c	570.010	17001.4718831	4061.287	-0.065	-8.275	0.282	-0.309	-0.509	4060.752
165	c	559.990	17001.4777327	4061.057	-0.066	-9.217	0.283	-0.308	-0.508	4060.524
166	c	550.000	17001.4827662	4060.758	-0.066	-10.156	0.284	-0.307	-0.508	4060.227
167	c	570.000	17001.4911334	4061.285	-0.066	-8.276	0.282	-0.309	-0.507	4060.752
168	c	570.000	17001.4953423	4061.291	-0.067	-8.276	0.282	-0.309	-0.506	4060.758
169	c	559.990	17001.5013445	4061.058	-0.067	-9.217	0.283	-0.308	-0.505	4060.528
170	c	550.000	17001.5064630	4060.749	-0.067	-10.156	0.284	-0.307	-0.505	4060.221
171	c	540.000	17001.5114893	4060.339	-0.068	-11.097	0.284	-0.306	-0.504	4059.813
172	c	540.000	17001.5166667	4060.330	-0.068	-11.097	0.284	-0.306	-0.503	4059.805
173	c	560.000	17001.5238351	4061.031	-0.069	-9.216	0.283	-0.308	-0.503	4060.503
174	c	550.000	17001.5279828	4060.735	-0.069	-10.156	0.284	-0.307	-0.502	4060.209
175	c	540.000	17001.5368644	4060.332	-0.070	-11.097	0.284	-0.306	-0.501	4059.809
176	c	540.000	17001.5424857	4060.337	-0.070	-11.097	0.284	-0.306	-0.500	4059.815
177	c	530.000	17001.5482399	4059.856	-0.070	-12.037	0.285	-0.305	-0.500	4059.336
178	c	550.100	17001.5565939	4060.737	-0.071	-10.147	0.284	-0.307	-0.499	4060.215
179	c	539.979	17001.5633812	4060.330	-0.071	-11.099	0.284	-0.306	-0.498	4059.810
180	c	539.979	17001.5686371	4060.325	-0.071	-11.099	0.284	-0.306	-0.497	4059.806
181	c	530.000	17001.5734964	4059.849	-0.071	-12.037	0.285	-0.305	-0.496	4059.332
182	c	520.000	17001.5789571	4059.353	-0.071	-12.978	0.285	-0.304	-0.496	4058.838
183	c	540.000	17001.5913836	4060.323	-0.071	-11.097	0.284	-0.306	-0.494	4059.807
184	c	530.000	17001.5988610	4059.845	-0.071	-12.037	0.285	-0.305	-0.493	4059.331

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
185	c	520.000	17001.6036161	4059.359	-0.070	-12.978	0.285	-0.304	-0.493	4058.847
186	c	520.000	17001.6087448	4059.346	-0.070	-12.978	0.285	-0.304	-0.492	4058.835
187	c	510.000	17001.6133970	4058.919	-0.069	-13.918	0.286	-0.303	-0.492	4058.410
188	c	540.000	17001.6237191	4060.317	-0.068	-11.097	0.284	-0.306	-0.490	4059.805
189	c	529.990	17001.6293924	4059.841	-0.067	-12.038	0.285	-0.305	-0.490	4059.331
190	c	520.000	17001.6346233	4059.345	-0.065	-12.978	0.285	-0.304	-0.489	4058.837
191	c	520.000	17001.6395934	4059.342	-0.064	-12.978	0.285	-0.304	-0.488	4058.834
192	c	510.000	17001.6457944	4058.911	-0.063	-13.918	0.286	-0.303	-0.488	4058.406
193	c	500.000	17001.6519467	4058.425	-0.061	-14.858	0.286	-0.302	-0.487	4057.922
194	c	500.000	17001.6554793	4058.426	-0.060	-14.858	0.286	-0.302	-0.486	4057.923
195	c	520.010	17001.6647840	4059.346	-0.056	-12.977	0.285	-0.304	-0.485	4058.842
196	c	510.000	17001.6696689	4058.916	-0.055	-13.918	0.286	-0.303	-0.485	4058.414
197	c	500.000	17001.6755385	4058.432	-0.052	-14.858	0.286	-0.302	-0.484	4057.932
198	c	500.000	17001.6791149	4058.430	-0.051	-14.858	0.286	-0.302	-0.483	4057.930
199	c	490.000	17001.6852478	4057.947	-0.048	-15.799	0.286	-0.302	-0.483	4057.449
200	c	510.010	17001.6930087	4058.904	-0.044	-13.917	0.286	-0.303	-0.482	4058.404
201	c	499.990	17001.6979578	4058.420	-0.041	-14.859	0.286	-0.302	-0.481	4057.922
202	c	499.990	17001.7014990	4058.420	-0.039	-14.859	0.286	-0.302	-0.481	4057.923
203	c	490.000	17001.7076370	4057.945	-0.036	-15.799	0.286	-0.302	-0.480	4057.450
204	c	479.979	17001.7132590	4057.456	-0.033	-16.741	0.287	-0.301	-0.479	4056.963
205	c	479.979	17001.7168594	4057.453	-0.030	-16.741	0.287	-0.301	-0.479	4056.960
206	c	500.021	17001.7290702	4058.406	-0.023	-14.857	0.286	-0.302	-0.477	4057.912
207	c	500.021	17001.7330241	4058.406	-0.020	-14.857	0.286	-0.302	-0.477	4057.913
208	c	490.000	17001.7381236	4057.922	-0.017	-15.799	0.286	-0.302	-0.476	4057.431
209	c	479.990	17001.7440860	4057.445	-0.012	-16.740	0.287	-0.301	-0.475	4056.956
210	c	479.990	17001.7481691	4057.447	-0.009	-16.740	0.287	-0.301	-0.475	4056.958
211	c	470.010	17001.7522904	4057.130	-0.006	-17.679	0.287	-0.300	-0.474	4056.643
212	c	489.990	17001.7584884	4057.920	-0.002	-15.800	0.286	-0.301	-0.474	4057.431

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
213	c	480.000	17001.7636279	4057.430	0.002	-16.739	0.287	-0.301	-0.473	4056.943
214	c	480.000	17001.7671688	4057.438	0.005	-16.739	0.287	-0.301	-0.473	4056.951
215	c	470.000	17001.7741758	4057.127	0.010	-17.680	0.287	-0.300	-0.472	4056.643
216	c	460.000	17001.7789547	4056.915	0.014	-18.620	0.287	-0.299	-0.471	4056.432
217	c	480.000	17001.7854252	4057.440	0.019	-16.739	0.287	-0.301	-0.470	4056.956
218	c	480.000	17001.7967513	4057.437	0.027	-16.739	0.287	-0.301	-0.469	4056.954
219	c	470.000	17001.8019752	4057.115	0.031	-17.680	0.287	-0.300	-0.468	4056.634
220	c	460.000	17001.8076274	4056.919	0.036	-18.620	0.287	-0.299	-0.468	4056.440
221	c	450.000	17001.8115924	4056.700	0.039	-19.560	0.287	-0.298	-0.467	4056.222
222	c	470.000	17001.8170900	4057.109	0.043	-17.680	0.287	-0.300	-0.467	4056.630
223	c	460.000	17001.8217810	4056.902	0.046	-18.620	0.287	-0.299	-0.466	4056.425
224	c	450.021	17001.8263909	4056.704	0.050	-19.559	0.287	-0.298	-0.465	4056.228
225	c	440.000	17001.8307787	4056.495	0.053	-20.501	0.288	-0.297	-0.465	4056.021
226	c	460.000	17001.8376342	4056.925	0.057	-18.620	0.287	-0.299	-0.464	4056.449
227	c	450.021	17001.8418139	4056.707	0.060	-19.559	0.287	-0.298	-0.463	4056.233
228	c	440.010	17001.8457129	4056.495	0.063	-20.500	0.288	-0.297	-0.463	4056.023
229	c	430.021	17001.8499591	4056.279	0.066	-21.439	0.288	-0.296	-0.462	4055.808
230	c	450.000	17001.8554339	4056.688	0.069	-19.560	0.287	-0.298	-0.462	4056.216
231	c	440.000	17001.8594569	4056.482	0.071	-20.501	0.288	-0.297	-0.461	4056.011
232	c	430.000	17001.8634404	4056.260	0.073	-21.441	0.288	-0.296	-0.461	4055.791
233	c	430.000	17001.8675358	4056.280	0.076	-21.441	0.288	-0.296	-0.460	4055.811
234	c	420.000	17001.8717204	4056.075	0.078	-22.382	0.288	-0.295	-0.460	4055.608
235	c	440.000	17001.8772712	4056.488	0.081	-20.501	0.288	-0.297	-0.459	4056.020
236	c	430.021	17001.8819775	4056.268	0.083	-21.439	0.288	-0.296	-0.459	4055.801
237	c	430.021	17001.8857891	4056.286	0.085	-21.439	0.288	-0.296	-0.458	4055.820
238	c	420.000	17001.8899380	4056.072	0.086	-22.382	0.288	-0.295	-0.458	4055.607
239	c	410.000	17001.8941605	4055.871	0.088	-23.322	0.288	-0.294	-0.457	4055.408
240	c	430.000	17001.9000917	4056.259	0.090	-21.441	0.288	-0.296	-0.456	4055.794

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
241	c	430.000	17001.9035824	4056.269	0.091	-21.441	0.288	-0.296	-0.456	4055.805
242	c	420.000	17001.9076956	4056.060	0.092	-22.382	0.288	-0.295	-0.455	4055.597
243	c	410.000	17001.9117520	4055.851	0.094	-23.322	0.288	-0.294	-0.455	4055.390
244	c	400.000	17001.9159826	4055.644	0.094	-24.262	0.287	-0.293	-0.454	4055.184
245	c	420.000	17001.9213337	4056.066	0.096	-22.382	0.288	-0.295	-0.454	4055.605
246	c	410.000	17001.9258393	4055.843	0.096	-23.322	0.288	-0.294	-0.453	4055.383
247	c	400.000	17001.9298651	4055.638	0.097	-24.262	0.287	-0.293	-0.453	4055.180
248	c	390.000	17001.9337896	4055.420	0.097	-25.203	0.287	-0.292	-0.452	4054.963
249	c	410.010	17001.9393861	4055.856	0.097	-23.321	0.288	-0.294	-0.451	4055.398
250	c	400.000	17001.9436626	4055.646	0.097	-24.262	0.287	-0.293	-0.451	4055.189
251	c	390.000	17001.9475354	4055.412	0.097	-25.203	0.287	-0.292	-0.450	4054.957
252	c	380.021	17001.9515818	4055.152	0.097	-26.141	0.287	-0.291	-0.450	4054.698
253	c	400.021	17001.9572546	4055.645	0.096	-24.260	0.287	-0.293	-0.449	4055.190
254	c	390.000	17001.9613749	4055.414	0.096	-25.203	0.287	-0.292	-0.449	4054.960
255	c	380.000	17001.9654848	4055.160	0.095	-26.143	0.287	-0.291	-0.448	4054.708
256	c	380.000	17001.9692619	4055.162	0.094	-26.143	0.287	-0.291	-0.448	4054.710
257	c	370.000	17001.9728189	4054.920	0.094	-27.084	0.287	-0.290	-0.447	4054.469
259	c	390.000	17001.9793989	4055.416	0.092	-25.203	0.287	-0.292	-0.447	4054.965
260	c	380.000	17001.9836253	4055.153	0.090	-26.143	0.287	-0.291	-0.446	4054.703
261	c	380.000	17001.9870194	4055.151	0.089	-26.143	0.287	-0.291	-0.446	4054.701
262	c	370.000	17001.9909443	4054.920	0.088	-27.084	0.287	-0.290	-0.445	4054.471
263	c	360.000	17001.9949361	4054.495	0.086	-28.024	0.286	-0.289	-0.445	4054.047
264	c	380.000	17002.0006453	4055.149	0.084	-26.143	0.287	-0.291	-0.444	4054.701
265	c	370.000	17002.0046657	4054.904	0.082	-27.084	0.287	-0.290	-0.443	4054.457
266	c	360.000	17002.0086277	4054.491	0.080	-28.024	0.286	-0.289	-0.443	4054.045
267	c	350.000	17002.0125723	4054.302	0.078	-28.964	0.286	-0.288	-0.442	4053.857
268	c	370.000	17002.0182632	4054.905	0.075	-27.084	0.287	-0.290	-0.442	4054.460
269	c	360.000	17002.0221592	4054.491	0.073	-28.024	0.286	-0.289	-0.441	4054.047

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
270	c	350.000	17002.0263436	4054.298	0.070	-28.964	0.286	-0.288	-0.441	4053.855
271	c	340.031	17002.0304737	4053.913	0.068	-29.902	0.285	-0.287	-0.440	4053.471
272	c	360.000	17002.0357343	4054.494	0.064	-28.024	0.286	-0.289	-0.440	4054.051
273	c	350.000	17002.0404990	4054.310	0.061	-28.964	0.286	-0.288	-0.439	4053.868
274	c	340.021	17002.0445443	4053.923	0.059	-29.903	0.285	-0.287	-0.439	4053.482
275	c	340.021	17002.0486526	4053.919	0.056	-29.903	0.285	-0.287	-0.438	4053.479
276	c	330.000	17002.0538012	4053.587	0.052	-30.845	0.285	-0.286	-0.437	4053.148
278	c	350.000	17002.0605474	4054.316	0.047	-28.964	0.286	-0.288	-0.437	4053.877
279	c	340.021	17002.0647559	4053.939	0.044	-29.903	0.285	-0.287	-0.436	4053.501
280	c	340.021	17002.0684266	4053.933	0.041	-29.903	0.285	-0.287	-0.436	4053.495
281	c	330.000	17002.0725921	4053.593	0.038	-30.845	0.285	-0.286	-0.435	4053.156
282	c	320.000	17002.0774516	4053.298	0.034	-31.785	0.284	-0.285	-0.435	4052.862
283	c	340.021	17002.0832998	4053.925	0.029	-29.903	0.285	-0.287	-0.434	4053.489
284	c	330.000	17002.0872398	4053.586	0.026	-30.845	0.285	-0.286	-0.433	4053.151
285	c	320.010	17002.0919020	4053.280	0.022	-31.785	0.284	-0.286	-0.433	4052.846
286	c	310.000	17002.0975510	4052.937	0.018	-32.726	0.283	-0.285	-0.432	4052.503
287	c	330.000	17002.1044350	4053.580	0.012	-30.845	0.285	-0.286	-0.431	4053.147
288	c	320.000	17002.1092318	4053.280	0.008	-31.785	0.284	-0.285	-0.431	4052.848
289	c	310.020	17002.1141234	4052.935	0.004	-32.724	0.283	-0.285	-0.430	4052.503
290	c	300.010	17002.1187668	4052.714	0.000	-33.665	0.282	-0.284	-0.429	4052.283
291	c	320.000	17002.1264483	4053.288	-0.006	-31.785	0.284	-0.285	-0.429	4052.858
292	c	310.010	17002.1312160	4052.944	-0.009	-32.725	0.283	-0.285	-0.428	4052.515
293	c	300.000	17002.1384180	4052.727	-0.015	-33.666	0.282	-0.284	-0.427	4052.298
294	c	300.000	17002.1426782	4052.720	-0.018	-33.666	0.282	-0.284	-0.427	4052.292
295	c	290.000	17002.1472101	4052.248	-0.022	-34.607	0.281	-0.283	-0.426	4051.820
297	c	310.010	17002.1556932	4052.932	-0.028	-32.725	0.283	-0.285	-0.425	4052.506
298	c	300.000	17002.1599560	4052.704	-0.031	-33.666	0.282	-0.284	-0.424	4052.278
299	c	300.000	17002.1638221	4052.698	-0.033	-33.666	0.282	-0.284	-0.424	4052.273

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
300	c	290.000	17002.1680810	4052.229	-0.036	-34.607	0.281	-0.283	-0.423	4051.804
301	c	280.010	17002.1743967	4051.905	-0.040	-35.546	0.280	-0.282	-0.423	4051.480
302	c	299.990	17002.1829610	4052.706	-0.045	-33.667	0.282	-0.284	-0.422	4052.283
303	c	299.990	17002.1868968	4052.697	-0.048	-33.667	0.282	-0.284	-0.421	4052.274
304	c	290.000	17002.1923390	4052.233	-0.051	-34.607	0.281	-0.283	-0.420	4051.811
305	c	280.020	17002.1977858	4051.900	-0.054	-35.545	0.280	-0.282	-0.420	4051.478
306	c	270.000	17002.2020477	4051.582	-0.056	-36.487	0.278	-0.281	-0.419	4051.160
307	c	290.000	17002.2083464	4052.224	-0.059	-34.607	0.281	-0.283	-0.418	4051.804
308	c	280.000	17002.2126189	4051.872	-0.061	-35.547	0.280	-0.282	-0.418	4051.452
309	c	270.000	17002.2176559	4051.575	-0.063	-36.487	0.278	-0.281	-0.417	4051.155
310	c	270.000	17002.2212605	4051.569	-0.064	-36.487	0.278	-0.281	-0.417	4051.150
311	c	260.000	17002.2257549	4051.100	-0.066	-37.428	0.277	-0.280	-0.416	4050.681
314	c	280.020	17002.2475160	4051.872	-0.073	-35.545	0.280	-0.282	-0.414	4051.456
315	c	270.010	17002.2519492	4051.566	-0.074	-36.486	0.278	-0.281	-0.413	4051.151
317	c	260.010	17002.2615053	4051.096	-0.076	-37.427	0.277	-0.280	-0.412	4050.681
318	c	249.970	17002.2694308	4050.548	-0.077	-38.371	0.275	-0.279	-0.411	4050.133
319	c	270.010	17002.2767746	4051.560	-0.078	-36.486	0.278	-0.281	-0.410	4051.148
320	c	270.010	17002.2804467	4051.553	-0.078	-36.486	0.278	-0.281	-0.410	4051.141
321	c	260.000	17002.2855387	4051.091	-0.078	-37.428	0.277	-0.280	-0.409	4050.679
322	c	250.000	17002.2913396	4050.544	-0.079	-38.368	0.275	-0.279	-0.408	4050.132
323	c	250.000	17002.2992806	4050.522	-0.079	-38.368	0.275	-0.279	-0.407	4050.111
324	c	240.000	17002.3168441	4050.110	-0.078	-39.308	0.273	-0.278	-0.405	4049.700
326	c	260.000	17002.3265976	4051.083	-0.077	-37.428	0.277	-0.280	-0.404	4050.676
327	c	250.000	17002.3314964	4050.544	-0.077	-38.368	0.275	-0.279	-0.403	4050.137
328	c	250.000	17002.3365320	4050.532	-0.076	-38.368	0.275	-0.279	-0.403	4050.126
329	c	240.020	17002.3426411	4050.114	-0.076	-39.307	0.273	-0.278	-0.402	4049.708
330	c	229.990	17002.3479645	4049.631	-0.075	-40.250	0.271	-0.277	-0.401	4049.224
331	c	229.990	17002.3524126	4049.630	-0.074	-40.250	0.271	-0.277	-0.401	4049.224

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
333	c	250.000	17002.3639592	4050.525	-0.072	-38.368	0.275	-0.279	-0.399	4050.122
334	c	250.000	17002.3681258	4050.519	-0.072	-38.368	0.275	-0.279	-0.399	4050.117
335	c	240.000	17002.3743626	4050.109	-0.071	-39.308	0.273	-0.278	-0.398	4049.707
336	c	230.010	17002.3792051	4049.638	-0.070	-40.248	0.271	-0.277	-0.397	4049.235
337	c	230.010	17002.3892719	4049.640	-0.068	-40.248	0.271	-0.277	-0.396	4049.238
338	c	220.000	17002.3951187	4049.257	-0.067	-41.189	0.269	-0.276	-0.395	4048.855
339	c	240.020	17002.4024927	4050.097	-0.066	-39.307	0.273	-0.278	-0.395	4049.698
340	c	230.000	17002.4089363	4049.620	-0.065	-40.249	0.271	-0.277	-0.394	4049.221
341	c	230.000	17002.4124620	4049.624	-0.064	-40.249	0.271	-0.277	-0.393	4049.225
342	c	220.000	17002.4171697	4049.243	-0.064	-41.189	0.269	-0.276	-0.393	4048.844
343	c	210.000	17002.4218739	4048.879	-0.063	-42.130	0.267	-0.275	-0.392	4048.479
345	c	230.020	17002.4334165	4049.631	-0.061	-40.247	0.271	-0.277	-0.391	4049.235
346	c	230.020	17002.4378906	4049.639	-0.060	-40.247	0.271	-0.277	-0.390	4049.243
347	c	220.000	17002.4467400	4049.253	-0.059	-41.189	0.269	-0.276	-0.389	4048.857
348	c	210.000	17002.4515698	4048.887	-0.059	-42.130	0.267	-0.275	-0.389	4048.490
349	c	210.000	17002.4557431	4048.891	-0.058	-42.130	0.267	-0.275	-0.388	4048.495
350	c	200.000	17002.4595864	4048.423	-0.058	-43.070	0.264	-0.274	-0.388	4048.026
351	c	220.000	17002.4687747	4049.251	-0.057	-41.189	0.269	-0.276	-0.386	4048.858
352	c	210.000	17002.4727616	4048.881	-0.057	-42.130	0.267	-0.275	-0.386	4048.487
353	c	210.000	17002.4763567	4048.896	-0.056	-42.130	0.267	-0.275	-0.386	4048.502
354	c	199.990	17002.4805662	4048.432	-0.056	-43.071	0.264	-0.274	-0.385	4048.037
355	c	190.000	17002.4851056	4048.076	-0.056	-44.010	0.261	-0.273	-0.384	4047.680
356	c	190.000	17002.4885167	4048.083	-0.056	-44.010	0.261	-0.273	-0.384	4047.687
357	c	210.000	17002.5018232	4048.890	-0.055	-42.130	0.267	-0.275	-0.382	4048.500
358	c	210.000	17002.5063536	4048.878	-0.055	-42.130	0.267	-0.275	-0.382	4048.488
359	c	199.990	17002.5111592	4048.433	-0.055	-43.071	0.264	-0.274	-0.381	4048.042
360	c	189.990	17002.5154793	4048.072	-0.055	-44.011	0.261	-0.273	-0.381	4047.680
361	c	189.990	17002.5190913	4048.086	-0.055	-44.011	0.261	-0.273	-0.380	4047.694

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
362	c	180.000	17002.5231586	4047.728	-0.055	-44.951	0.258	-0.272	-0.380	4047.334
363	c	200.000	17002.5291087	4048.419	-0.055	-43.070	0.264	-0.274	-0.379	4048.030
364	c	189.990	17002.5335992	4048.057	-0.054	-44.011	0.261	-0.273	-0.378	4047.667
365	c	189.990	17002.5366924	4048.089	-0.054	-44.011	0.261	-0.273	-0.378	4047.699
366	c	180.000	17002.5413703	4047.731	-0.054	-44.951	0.258	-0.272	-0.378	4047.339
367	c	170.000	17002.5468685	4047.245	-0.055	-45.891	0.255	-0.271	-0.377	4046.852
368	c	170.000	17002.5503226	4047.247	-0.055	-45.891	0.255	-0.271	-0.376	4046.854
369	c	190.000	17002.5629352	4048.079	-0.055	-44.010	0.261	-0.273	-0.375	4047.692
370	c	190.000	17002.5678359	4048.056	-0.055	-44.010	0.261	-0.273	-0.374	4047.670
371	c	180.000	17002.5724013	4047.725	-0.055	-44.951	0.258	-0.272	-0.374	4047.337
372	c	170.000	17002.5765996	4047.247	-0.055	-45.891	0.255	-0.271	-0.373	4046.857
373	c	170.000	17002.5801333	4047.251	-0.055	-45.891	0.255	-0.271	-0.373	4046.862
374	c	159.979	17002.5845566	4046.792	-0.055	-46.833	0.251	-0.270	-0.372	4046.400
375	c	180.000	17002.5918483	4047.714	-0.055	-44.951	0.258	-0.272	-0.371	4047.329
376	c	169.990	17002.6068268	4047.230	-0.054	-45.892	0.255	-0.271	-0.369	4046.844
377	c	169.990	17002.6124496	4047.256	-0.054	-45.892	0.255	-0.271	-0.369	4046.871
378	c	160.010	17002.6180924	4046.794	-0.054	-46.830	0.251	-0.270	-0.368	4046.406
379	c	150.010	17002.6222785	4046.295	-0.053	-47.771	0.246	-0.269	-0.368	4045.905
380	c	150.010	17002.6259293	4046.306	-0.053	-47.771	0.246	-0.269	-0.367	4045.916
381	c	169.990	17002.6321449	4047.233	-0.053	-45.892	0.255	-0.271	-0.366	4046.850
382	c	169.990	17002.6364173	4047.244	-0.052	-45.892	0.255	-0.271	-0.366	4046.862
383	c	160.000	17002.6406265	4046.782	-0.052	-46.831	0.251	-0.270	-0.365	4046.397
384	c	149.948	17002.6452387	4046.283	-0.051	-47.777	0.246	-0.269	-0.365	4045.895
385	c	149.948	17002.6490109	4046.301	-0.051	-47.777	0.246	-0.269	-0.364	4045.914
386	c	139.969	17002.6549656	4045.810	-0.050	-48.715	0.242	-0.268	-0.364	4045.420
387	c	160.000	17002.6609083	4046.794	-0.049	-46.831	0.251	-0.270	-0.363	4046.412
388	c	149.990	17002.6655583	4046.290	-0.048	-47.773	0.246	-0.269	-0.362	4045.905
389	c	149.990	17002.6693369	4046.311	-0.048	-47.773	0.246	-0.269	-0.362	4045.926

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
390	c	140.010	17002.6746401	4045.818	-0.046	-48.711	0.242	-0.268	-0.361	4045.430
391	c	130.010	17002.6814275	4045.285	-0.045	-49.651	0.236	-0.267	-0.360	4044.894
392	c	130.010	17002.6858059	4045.292	-0.044	-49.651	0.236	-0.267	-0.360	4044.901
393	c	150.000	17002.6941273	4046.286	-0.042	-47.772	0.246	-0.269	-0.359	4045.904
394	c	150.000	17002.6986523	4046.298	-0.040	-47.772	0.246	-0.269	-0.358	4045.917
395	c	140.000	17002.7053511	4045.809	-0.038	-48.712	0.242	-0.268	-0.357	4045.425
396	c	130.000	17002.7108831	4045.267	-0.036	-49.652	0.236	-0.267	-0.357	4044.879
397	c	130.000	17002.7147598	4045.282	-0.035	-49.652	0.236	-0.267	-0.356	4044.895
398	c	120.000	17002.7214963	4044.759	-0.033	-50.593	0.230	-0.266	-0.355	4044.367
399	c	139.979	17002.7406053	4045.797	-0.025	-48.714	0.242	-0.268	-0.353	4045.417
400	c	130.000	17002.7468142	4045.256	-0.022	-49.652	0.236	-0.267	-0.352	4044.873
401	c	130.000	17002.7509098	4045.271	-0.020	-49.652	0.236	-0.267	-0.352	4044.888
402	c	120.000	17002.7616729	4044.742	-0.015	-50.593	0.230	-0.266	-0.350	4044.355
403	c	110.000	17002.7662500	4044.227	-0.013	-51.533	0.223	-0.265	-0.350	4043.835
404	c	130.000	17002.7731867	4045.270	-0.009	-49.652	0.236	-0.267	-0.349	4044.890
405	c	120.000	17002.7769479	4044.740	-0.007	-50.593	0.230	-0.266	-0.349	4044.355
406	c	110.000	17002.7813869	4044.228	-0.005	-51.533	0.223	-0.265	-0.348	4043.838
407	c	110.000	17002.7846973	4044.240	-0.003	-51.533	0.223	-0.265	-0.348	4043.850
408	c	100.021	17002.7883122	4043.835	-0.001	-52.471	0.215	-0.265	-0.347	4043.439
409	c	120.000	17002.7936812	4044.738	0.002	-50.593	0.230	-0.266	-0.347	4044.355
410	c	110.000	17002.7969562	4044.224	0.004	-51.533	0.223	-0.265	-0.346	4043.836
411	c	110.000	17002.7997967	4044.239	0.005	-51.533	0.223	-0.265	-0.346	4043.851
412	c	100.021	17002.8033684	4043.842	0.007	-52.471	0.215	-0.265	-0.345	4043.448
413	c	90.000	17002.8069795	4043.278	0.009	-53.414	0.206	-0.264	-0.345	4042.876
414	c	110.000	17002.8121865	4044.240	0.012	-51.533	0.223	-0.265	-0.344	4043.854
415	c	100.000	17002.8155720	4043.838	0.014	-52.473	0.215	-0.264	-0.344	4043.445
416	c	90.000	17002.8190377	4043.276	0.016	-53.414	0.206	-0.264	-0.343	4042.876
417	c	90.000	17002.8223291	4043.294	0.018	-53.414	0.206	-0.264	-0.343	4042.894

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
418	c	80.000	17002.8258543	4042.733	0.020	-54.354	0.196	-0.263	-0.343	4042.324
419	c	100.000	17002.8316733	4043.837	0.023	-52.473	0.215	-0.264	-0.342	4043.446
420	c	90.000	17002.8351774	4043.274	0.025	-53.414	0.206	-0.264	-0.341	4042.876
421	c	90.000	17002.8380443	4043.295	0.027	-53.414	0.206	-0.264	-0.341	4042.897
422	c	80.000	17002.8416815	4042.739	0.029	-54.354	0.196	-0.263	-0.341	4042.332
423	c	70.000	17002.8450898	4042.250	0.031	-55.294	0.184	-0.262	-0.340	4041.832
424	c	90.000	17002.8503563	4043.287	0.034	-53.414	0.206	-0.264	-0.340	4042.890
425	c	80.000	17002.8537996	4042.740	0.035	-54.354	0.196	-0.263	-0.339	4042.334
426	c	70.000	17002.8574254	4042.240	0.037	-55.294	0.184	-0.262	-0.339	4041.824
427	c	70.000	17002.8606870	4042.263	0.039	-55.294	0.184	-0.262	-0.338	4041.847
428	c	60.000	17002.8640483	4041.701	0.041	-56.235	0.170	-0.261	-0.338	4041.273
429	c	80.000	17002.8691271	4042.735	0.043	-54.354	0.196	-0.263	-0.337	4042.331
430	c	70.000	17002.8724385	4042.245	0.045	-55.294	0.184	-0.262	-0.337	4041.831
431	c	70.000	17002.8753211	4042.269	0.046	-55.294	0.184	-0.262	-0.336	4041.855
432	c	60.000	17002.8788025	4041.705	0.048	-56.235	0.170	-0.261	-0.336	4041.278
433	c	50.000	17002.8822108	4040.998	0.049	-57.175	0.154	-0.260	-0.336	4040.556
434	c	70.000	17002.8877414	4042.272	0.052	-55.294	0.184	-0.262	-0.335	4041.859
435	c	60.000	17002.8912221	4041.715	0.053	-56.235	0.170	-0.261	-0.335	4041.290
436	c	50.000	17002.8948492	4040.998	0.055	-57.175	0.154	-0.260	-0.334	4040.558
437	c	50.000	17002.8985190	4041.026	0.056	-57.175	0.154	-0.260	-0.334	4040.586
438	c	40.010	17002.9053670	4040.837	0.059	-58.115	0.135	-0.259	-0.333	4040.380
440	c	60.021	17002.9136696	4041.717	0.061	-56.233	0.170	-0.261	-0.332	4041.295
441	c	50.000	17002.9179002	4041.010	0.063	-57.175	0.154	-0.260	-0.331	4040.573
442	c	50.000	17002.9211689	4041.034	0.064	-57.175	0.154	-0.260	-0.331	4040.597
443	c	40.000	17002.9273213	4040.835	0.065	-58.115	0.135	-0.259	-0.330	4040.381
444	c	30.000	17002.9322628	4040.272	0.067	-59.056	0.113	-0.258	-0.329	4039.798
445	c	50.000	17002.9386952	4041.031	0.068	-57.175	0.154	-0.260	-0.329	4040.596
446	c	40.000	17002.9447923	4040.842	0.069	-58.115	0.135	-0.259	-0.328	4040.390

Table 4: C4993 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr (mGals)	Corrected gravity(mGals)
447	c	30.000	17002.9498093	4040.281	0.069	-59.056	0.113	-0.258	-0.327	4039.809
448	c	20.000	17002.9550337	4039.765	0.070	-59.996	0.088	-0.257	-0.327	4039.269
449	c	40.021	17002.9695334	4040.838	0.070	-58.114	0.135	-0.259	-0.325	4040.389
450	c	30.000	17002.9748643	4040.280	0.070	-59.056	0.113	-0.258	-0.324	4039.811
451	c	30.000	17002.9783449	4040.287	0.070	-59.056	0.113	-0.258	-0.324	4039.818
452	c	20.000	17002.9826958	4039.770	0.070	-59.996	0.088	-0.257	-0.323	4039.278
453	c	10.000	17002.9893540	4039.330	0.069	-60.937	0.061	-0.256	-0.322	4038.813
455	c	20.000	17003.0058795	4039.789	0.066	-59.996	0.088	-0.257	-0.320	4039.300
456	c	20.000	17003.0098423	4039.783	0.065	-59.996	0.088	-0.257	-0.320	4039.294
1	d	70.000	17003.0787421	4042.263	0.034	-55.294	0.184	-0.262	-0.311	4041.874
2	d	60.000	17003.0858021	4041.701	0.029	-56.235	0.170	-0.261	-0.311	4041.300
3	d	60.000	17003.0894941	4041.704	0.027	-56.235	0.170	-0.261	-0.310	4041.303
4	d	50.000	17003.0949422	4040.999	0.024	-57.175	0.154	-0.260	-0.310	4040.584
5	d	40.000	17003.0993454	4040.794	0.021	-58.115	0.135	-0.259	-0.309	4040.361

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Table 5: Well C4996 Processed gravity

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
4	b	1449.974	16980.4129403	4103.970	-0.075	73.355	-0.407	-0.552	0.000	4103.010
5	b	1440.014	16980.4237685	4103.770	-0.077	72.418	-0.407	-0.551	0.003	4102.816
6	b	1430.026	16980.4327322	4103.543	-0.079	71.478	-0.408	-0.549	0.006	4102.593
7	b	1419.968	16980.4397573	4103.286	-0.081	70.532	-0.408	-0.547	0.008	4102.339
8	b	1409.961	16980.4466387	4103.041	-0.081	69.591	-0.408	-0.545	0.011	4102.098
10	b	1449.995	16980.4583196	4103.952	-0.082	73.356	-0.407	-0.552	0.014	4103.006
12	b	1429.999	16980.4698000	4103.516	-0.082	71.476	-0.408	-0.549	0.018	4102.577
14	b	1419.532	16980.4785953	4103.243	-0.081	70.491	-0.408	-0.547	0.021	4102.309
15	b	1410.023	16980.4864185	4103.012	-0.080	69.597	-0.408	-0.545	0.023	4102.082
16	b	1449.992	16980.4997715	4103.923	-0.076	73.356	-0.407	-0.552	0.027	4102.991
17	b	1440.005	16980.5100215	4103.706	-0.073	72.417	-0.407	-0.551	0.030	4102.779
19	b	1419.975	16980.5264219	4103.228	-0.066	70.533	-0.408	-0.547	0.036	4102.309
20	b	1410.015	16980.5342410	4102.978	-0.062	69.596	-0.408	-0.545	0.038	4102.063
21	b	1449.996	16980.5418451	4103.901	-0.058	73.357	-0.407	-0.552	0.040	4102.982
22	b	1439.980	16980.5517365	4103.694	-0.051	72.415	-0.407	-0.551	0.044	4102.779
23	b	1430.018	16980.5597199	4103.471	-0.046	71.478	-0.408	-0.549	0.046	4102.561
24	b	1419.936	16980.5660387	4103.205	-0.041	70.529	-0.408	-0.547	0.048	4102.298
25	b	1409.979	16980.5720471	4102.967	-0.037	69.593	-0.408	-0.545	0.050	4102.064
26	b	1449.989	16980.5794811	4103.883	-0.031	73.356	-0.407	-0.552	0.052	4102.976
27	b	1439.892	16980.5873968	4103.672	-0.024	72.406	-0.407	-0.550	0.055	4102.769
28	b	1429.916	16980.5932342	4103.446	-0.020	71.468	-0.408	-0.549	0.057	4102.546
29	b	1420.001	16980.6014817	4103.193	-0.012	70.535	-0.408	-0.547	0.059	4102.297
30	b	1410.010	16980.6142707	4102.922	-0.001	69.596	-0.408	-0.545	0.063	4102.032
31	b	1410.010	16980.6241957	4102.947	0.008	69.596	-0.408	-0.545	0.066	4102.060
32	b	1400.000	16980.6326680	4102.696	0.015	68.654	-0.408	-0.544	0.069	4101.813
33	b	1389.995	16980.6408523	4102.401	0.023	67.713	-0.408	-0.542	0.071	4101.522
34	b	1379.857	16980.6483706	4102.104	0.029	66.760	-0.408	-0.540	0.074	4101.229

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
35	b	1370.015	16980.6572543	4101.884	0.037	65.834	-0.408	-0.539	0.077	4101.014
36	b	1409.988	16980.6699770	4102.960	0.047	69.594	-0.408	-0.545	0.081	4102.088
37	b	1399.990	16980.6791639	4102.700	0.054	68.653	-0.408	-0.544	0.084	4101.832
38	b	1390.019	16980.6866767	4102.407	0.060	67.716	-0.408	-0.542	0.086	4101.543
39	b	1380.005	16980.6930021	4102.088	0.064	66.774	-0.408	-0.540	0.088	4101.228
40	b	1370.001	16980.6992534	4101.833	0.068	65.833	-0.408	-0.539	0.090	4100.976
41	b	1410.012	16980.7093979	4102.948	0.074	69.596	-0.408	-0.545	0.093	4102.088
42	b	1400.015	16980.7159519	4102.686	0.077	68.656	-0.408	-0.544	0.095	4101.829
43	b	1390.013	16980.7392964	4102.392	0.086	67.715	-0.408	-0.542	0.102	4101.544
44	b	1380.008	16980.7454501	4102.078	0.088	66.774	-0.408	-0.540	0.104	4101.234
45	b	1369.997	16980.7521101	4101.842	0.089	65.833	-0.408	-0.539	0.106	4101.002
46	b	1410.004	16980.7694001	4102.938	0.091	69.595	-0.408	-0.545	0.112	4102.097
47	b	1400.011	16980.7772074	4102.674	0.090	68.655	-0.408	-0.544	0.114	4101.836
48	b	1390.011	16980.7849081	4102.382	0.089	67.715	-0.408	-0.542	0.117	4101.548
49	b	1379.962	16980.7944045	4102.074	0.088	66.770	-0.408	-0.540	0.120	4101.245
50	b	1370.000	16980.8028133	4101.840	0.085	65.833	-0.408	-0.539	0.122	4101.015
51	b	1370.000	16980.8084907	4101.837	0.083	65.833	-0.408	-0.539	0.124	4101.014
52	b	1360.006	16980.8151554	4101.619	0.081	64.893	-0.408	-0.537	0.126	4100.800
53	b	1349.982	16980.8222037	4101.380	0.078	63.950	-0.409	-0.535	0.128	4100.565
54	b	1340.013	16980.8294436	4101.107	0.074	63.012	-0.409	-0.533	0.131	4100.296
55	b	1329.999	16980.8358876	4100.810	0.070	62.071	-0.409	-0.532	0.133	4100.002
56	b	1329.999	16980.8410437	4100.801	0.067	62.071	-0.409	-0.532	0.134	4099.995
57	b	1320.004	16980.8476917	4100.447	0.063	61.131	-0.409	-0.530	0.136	4099.645
58	b	1360.021	16980.8572292	4101.595	0.056	64.894	-0.408	-0.537	0.139	4100.789
59	b	1349.997	16980.8633401	4101.360	0.052	63.951	-0.409	-0.535	0.141	4100.558
60	b	1340.020	16980.8692234	4101.091	0.047	63.013	-0.409	-0.533	0.143	4100.292
61	b	1330.004	16980.8752339	4100.784	0.042	62.071	-0.409	-0.532	0.145	4099.989
62	b	1330.004	16980.8790164	4100.780	0.039	62.071	-0.409	-0.532	0.146	4099.986

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
63	b	1319.993	16980.8845618	4100.431	0.035	61.130	-0.409	-0.530	0.148	4099.640
64	b	1360.002	16980.8998269	4101.589	0.021	64.892	-0.408	-0.537	0.153	4100.796
65	b	1360.002	16980.9043351	4101.576	0.018	64.892	-0.408	-0.537	0.154	4100.785
66	b	1350.002	16980.9106692	4101.362	0.012	63.952	-0.409	-0.535	0.156	4100.574
67	b	1340.009	16980.9164037	4101.080	0.007	63.012	-0.409	-0.533	0.158	4100.296
68	b	1330.016	16980.9230496	4100.776	0.001	62.072	-0.409	-0.532	0.160	4099.996
69	b	1320.011	16980.9287448	4100.435	-0.004	61.131	-0.409	-0.530	0.162	4099.659
70	b	1360.007	16980.9356216	4101.576	-0.010	64.893	-0.408	-0.537	0.164	4100.795
71	b	1350.001	16980.9424144	4101.328	-0.016	63.952	-0.409	-0.535	0.166	4100.551
72	b	1340.003	16980.9482092	4101.066	-0.021	63.012	-0.409	-0.533	0.168	4100.292
73	b	1330.006	16980.9535148	4100.775	-0.025	62.071	-0.409	-0.532	0.170	4100.004
74	b	1319.989	16980.9583909	4100.396	-0.029	61.129	-0.409	-0.530	0.171	4099.629
75	b	1309.981	16980.9649927	4100.196	-0.034	60.188	-0.409	-0.528	0.173	4099.433
76	b	1300.018	16980.9708396	4099.989	-0.038	59.251	-0.409	-0.526	0.175	4099.229
77	b	1290.009	16980.9769163	4099.754	-0.043	58.310	-0.409	-0.524	0.177	4098.998
78	b	1280.001	16980.9821482	4099.556	-0.046	57.368	-0.409	-0.523	0.179	4098.803
79	b	1270.007	16980.9873764	4099.344	-0.050	56.428	-0.409	-0.521	0.180	4098.595
80	b	1310.002	16980.9950954	4100.201	-0.054	60.190	-0.409	-0.528	0.183	4099.447
81	b	1300.012	16981.0009308	4099.984	-0.058	59.250	-0.409	-0.526	0.184	4099.234
82	b	1290.002	16981.0066152	4099.760	-0.061	58.309	-0.409	-0.524	0.186	4099.013
83	b	1280.001	16981.0123155	4099.554	-0.064	57.368	-0.409	-0.523	0.188	4098.810
84	b	1269.994	16981.0177126	4099.339	-0.066	56.427	-0.409	-0.521	0.190	4098.600
85	b	1310.000	16981.0262990	4100.181	-0.069	60.190	-0.409	-0.528	0.192	4099.437
86	b	1300.018	16981.0319384	4099.975	-0.071	59.251	-0.409	-0.526	0.194	4099.234
87	b	1289.995	16981.0378320	4099.745	-0.073	58.308	-0.409	-0.524	0.196	4099.008
88	b	1280.015	16981.0431925	4099.533	-0.075	57.370	-0.409	-0.523	0.198	4098.800
89	b	1269.984	16981.0485576	4099.318	-0.076	56.426	-0.409	-0.521	0.199	4098.588
90	b	1309.999	16981.0558652	4100.179	-0.077	60.190	-0.409	-0.528	0.202	4099.444

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
91	b	1300.007	16981.0615210	4099.955	-0.078	59.250	-0.409	-0.526	0.203	4099.223
92	b	1289.994	16981.0661743	4099.729	-0.078	58.308	-0.409	-0.524	0.205	4099.001
93	b	1280.011	16981.0716500	4099.518	-0.079	57.369	-0.409	-0.523	0.207	4098.793
94	b	1269.996	16981.0766236	4099.306	-0.079	56.427	-0.409	-0.521	0.208	4098.585
95	b	1260.001	16981.0821063	4099.086	-0.079	55.487	-0.408	-0.519	0.210	4098.369
96	b	1260.001	16981.0862937	4099.088	-0.078	55.487	-0.408	-0.519	0.211	4098.372
97	b	1249.996	16981.0920018	4098.904	-0.078	54.546	-0.408	-0.517	0.213	4098.192
98	b	1239.987	16981.1013594	4098.699	-0.077	53.605	-0.408	-0.515	0.216	4097.991
99	b	1230.000	16981.1094609	4098.486	-0.075	52.666	-0.408	-0.513	0.218	4097.783
100	b	1220.005	16981.1169954	4098.266	-0.074	51.726	-0.408	-0.511	0.221	4097.568
101	b	1209.997	16981.1237737	4098.033	-0.072	50.784	-0.408	-0.510	0.223	4097.338
102	b	1259.996	16981.1342863	4099.101	-0.070	55.487	-0.408	-0.519	0.226	4098.400
103	b	1249.996	16981.1403198	4098.896	-0.068	54.546	-0.408	-0.517	0.228	4098.198
104	b	1240.012	16981.1467668	4098.682	-0.066	53.607	-0.408	-0.515	0.230	4097.989
105	b	1230.005	16981.1526856	4098.464	-0.064	52.666	-0.408	-0.513	0.232	4097.774
106	b	1220.015	16981.1591890	4098.244	-0.062	51.727	-0.408	-0.511	0.234	4097.559
107	b	1210.002	16981.1646697	4098.025	-0.060	50.785	-0.408	-0.510	0.236	4097.343
108	b	1260.013	16981.1726200	4099.089	-0.057	55.488	-0.408	-0.519	0.238	4098.400
109	b	1250.010	16981.1788198	4098.876	-0.055	54.548	-0.408	-0.517	0.240	4098.190
110	b	1240.011	16981.1848548	4098.670	-0.053	53.607	-0.408	-0.515	0.242	4097.989
111	b	1230.006	16981.1905899	4098.459	-0.052	52.666	-0.408	-0.513	0.244	4097.781
113	b	1210.003	16981.2024548	4098.003	-0.048	50.785	-0.408	-0.510	0.248	4097.333
114	b	1260.002	16981.2115628	4099.078	-0.046	55.487	-0.408	-0.519	0.251	4098.401
115	b	1250.005	16981.2176223	4098.851	-0.044	54.547	-0.408	-0.517	0.252	4098.178
116	b	1240.006	16981.2239578	4098.654	-0.043	53.607	-0.408	-0.515	0.254	4097.984
117	b	1230.016	16981.2294927	4098.447	-0.042	52.667	-0.408	-0.513	0.256	4097.782
118	b	1220.004	16981.2356313	4098.218	-0.040	51.726	-0.408	-0.511	0.258	4097.557
119	b	1210.001	16981.2425819	4097.996	-0.039	50.785	-0.408	-0.510	0.260	4097.339

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
120	b	1210.002	16981.2504810	4098.015	-0.038	50.785	-0.408	-0.510	0.263	4097.360
121	b	1200.000	16981.2557150	4097.781	-0.038	49.844	-0.408	-0.508	0.264	4097.130
122	b	1190.015	16981.2620076	4097.534	-0.038	48.905	-0.408	-0.506	0.266	4096.887
123	b	1180.010	16981.2671103	4097.263	-0.037	47.964	-0.407	-0.504	0.268	4096.620
125	b	1160.003	16981.2773753	4096.757	-0.038	46.083	-0.407	-0.500	0.271	4096.122
126	b	1210.000	16981.2856389	4098.008	-0.038	50.785	-0.408	-0.510	0.274	4097.364
127	b	1199.987	16981.2934963	4097.744	-0.039	49.843	-0.408	-0.508	0.276	4097.105
128	b	1199.987	16981.3022515	4097.749	-0.040	49.843	-0.408	-0.508	0.279	4097.113
129	b	1189.997	16981.3086340	4097.507	-0.041	48.903	-0.408	-0.506	0.281	4096.875
130	b	1180.001	16981.3136852	4097.236	-0.042	47.963	-0.407	-0.504	0.283	4096.607
132	b	1209.996	16981.3343588	4097.976	-0.048	50.784	-0.408	-0.510	0.289	4097.347
133	b	1200.006	16981.3400136	4097.732	-0.049	49.845	-0.408	-0.508	0.291	4097.107
134	b	1189.988	16981.3454781	4097.484	-0.051	48.903	-0.408	-0.506	0.293	4096.864
135	b	1180.002	16981.3505130	4097.208	-0.052	47.963	-0.407	-0.504	0.294	4096.591
138	b	1210.011	16981.3740366	4097.976	-0.061	50.786	-0.408	-0.510	0.301	4097.360
139	b	1200.004	16981.3805387	4097.703	-0.063	49.845	-0.408	-0.508	0.304	4097.091
142	b	1179.998	16981.3981863	4097.247	-0.069	47.963	-0.407	-0.504	0.309	4096.644
144	b	1169.992	16981.4108503	4096.943	-0.073	47.022	-0.407	-0.502	0.313	4096.347
148	b	1149.907	16981.4397459	4096.233	-0.081	45.133	-0.406	-0.498	0.322	4095.650
149	b	1139.969	16981.4461369	4095.729	-0.082	44.198	-0.406	-0.496	0.324	4095.150
150	b	1139.969	16981.4555320	4095.741	-0.083	44.198	-0.406	-0.496	0.327	4095.166
151	b	1129.994	16981.4610580	4095.256	-0.084	43.260	-0.406	-0.494	0.329	4094.685
153	b	1169.987	16981.4757979	4096.931	-0.084	47.022	-0.407	-0.502	0.333	4096.355
154	b	1159.985	16981.4817051	4096.718	-0.084	46.081	-0.407	-0.500	0.335	4096.146
155	b	1149.996	16981.4870370	4096.239	-0.083	45.141	-0.406	-0.498	0.337	4095.671
158	b	1130.005	16981.5116693	4095.255	-0.078	43.261	-0.406	-0.494	0.345	4094.699
159	b	1120.002	16981.5198560	4094.795	-0.075	42.321	-0.405	-0.493	0.347	4094.244
160	b	1169.991	16981.5347345	4096.927	-0.069	47.022	-0.407	-0.502	0.352	4096.370

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
161	b	1159.999	16981.5419177	4096.658	-0.065	46.082	-0.407	-0.500	0.354	4096.105
162	b	1150.000	16981.5529845	4096.203	-0.058	45.142	-0.406	-0.498	0.358	4095.656
163	b	1139.996	16981.5687654	4095.708	-0.048	44.201	-0.406	-0.496	0.363	4095.168
165	b	1129.984	16981.5812151	4095.229	-0.038	43.259	-0.406	-0.494	0.366	4094.695
167	b	1169.994	16981.6049030	4096.925	-0.017	47.022	-0.407	-0.502	0.374	4096.390
169	b	1160.003	16981.6770347	4096.610	0.052	46.083	-0.407	-0.500	0.397	4096.100
170	b	1170.004	16981.6865176	4096.909	0.061	47.023	-0.407	-0.502	0.400	4096.399
171	b	1159.988	16981.6957729	4096.620	0.069	46.081	-0.407	-0.500	0.402	4096.116
172	b	1149.998	16981.7027664	4096.209	0.074	45.142	-0.406	-0.498	0.405	4095.708
174	b	1139.993	16981.7131342	4095.694	0.082	44.201	-0.406	-0.496	0.408	4095.199
177	b	1119.990	16981.7420077	4094.729	0.099	42.319	-0.405	-0.493	0.417	4094.248
178	b	1120.005	16981.8148631	4094.699	0.106	42.321	-0.405	-0.493	0.440	4094.241
179	b	1110.016	16981.8231433	4094.315	0.104	41.381	-0.405	-0.491	0.442	4093.862
180	b	1100.010	16981.8296328	4093.893	0.101	40.440	-0.405	-0.489	0.444	4093.444
181	b	1089.996	16981.8359979	4093.472	0.098	39.499	-0.404	-0.487	0.446	4093.027
183	b	1080.000	16981.8492639	4093.080	0.091	38.558	-0.404	-0.485	0.451	4092.642
184	b	1070.000	16981.8577865	4092.674	0.085	37.618	-0.403	-0.483	0.453	4092.241
185	b	1119.979	16981.8688818	4094.707	0.077	42.318	-0.405	-0.493	0.457	4094.266
186	b	1110.000	16981.8745640	4094.300	0.073	41.380	-0.405	-0.491	0.459	4093.863
187	b	1100.000	16981.8808572	4093.871	0.068	40.439	-0.405	-0.489	0.460	4093.438
188	b	1089.979	16981.8872614	4093.461	0.062	39.497	-0.404	-0.487	0.462	4093.033
189	b	1080.010	16981.8952888	4093.040	0.055	38.559	-0.404	-0.485	0.465	4092.617
190	b	1070.000	16981.9018997	4092.639	0.049	37.618	-0.403	-0.483	0.467	4092.220
191	b	1120.010	16981.9113342	4094.696	0.040	42.321	-0.405	-0.493	0.470	4094.268
192	b	1120.010	16981.9151014	4094.688	0.037	42.321	-0.405	-0.493	0.471	4094.262
193	b	1110.010	16981.9254975	4094.277	0.026	41.381	-0.405	-0.491	0.474	4093.856
194	b	1100.000	16981.9316326	4093.840	0.020	40.439	-0.405	-0.489	0.476	4093.423
195	b	1090.010	16981.9378750	4093.424	0.014	39.500	-0.404	-0.487	0.478	4093.011

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
197	b	1090.010	16981.9456612	4093.433	0.006	39.500	-0.404	-0.487	0.481	4093.023
198	b	1080.000	16981.9523948	4093.027	-0.000	38.558	-0.404	-0.485	0.483	4092.622
199	b	1070.000	16981.9592213	4092.608	-0.007	37.618	-0.403	-0.483	0.485	4092.207
200	b	1120.000	16981.9677977	4094.679	-0.015	42.320	-0.405	-0.493	0.488	4094.269
201	b	1110.010	16981.9731613	4094.247	-0.020	41.381	-0.405	-0.491	0.489	4093.841
202	b	1100.000	16981.9793833	4093.841	-0.025	40.439	-0.405	-0.489	0.491	4093.439
203	b	1090.021	16981.9871847	4093.421	-0.032	39.501	-0.404	-0.487	0.494	4093.024
204	b	1090.021	16981.9916309	4093.425	-0.036	39.501	-0.404	-0.487	0.495	4093.029
205	b	1080.010	16981.9973586	4093.020	-0.041	38.559	-0.404	-0.485	0.497	4092.629
206	b	1070.021	16982.0030702	4092.595	-0.045	37.620	-0.403	-0.483	0.499	4092.208
207	b	1070.021	16982.0082468	4092.599	-0.049	37.620	-0.403	-0.483	0.500	4092.214
208	b	1060.021	16982.0203715	4092.177	-0.058	36.679	-0.403	-0.481	0.504	4091.798
209	b	1049.990	16982.0261065	4091.899	-0.061	35.736	-0.402	-0.479	0.506	4091.524
210	b	1039.990	16982.0317861	4091.635	-0.065	34.796	-0.402	-0.477	0.508	4091.264
211	b	1039.990	16982.0362216	4091.636	-0.067	34.796	-0.402	-0.477	0.509	4091.267
212	b	1029.990	16982.0418754	4091.388	-0.070	33.855	-0.401	-0.475	0.511	4091.023
213	b	1019.979	16982.0482577	4091.132	-0.073	32.914	-0.400	-0.473	0.513	4090.771
215	b	1070.000	16982.0593441	4092.601	-0.077	37.618	-0.403	-0.483	0.516	4092.231
216	b	1059.990	16982.0647893	4092.146	-0.079	36.677	-0.403	-0.481	0.518	4091.781
217	b	1050.000	16982.0699086	4091.885	-0.081	35.737	-0.402	-0.479	0.520	4091.524
218	b	1040.000	16982.0760114	4091.627	-0.082	34.797	-0.402	-0.477	0.522	4091.270
219	b	1040.000	16982.0801962	4091.639	-0.083	34.797	-0.402	-0.477	0.523	4091.283
220	b	1029.979	16982.0861158	4091.382	-0.084	33.854	-0.401	-0.475	0.525	4091.031
221	b	1019.990	16982.0921766	4091.122	-0.085	32.915	-0.400	-0.473	0.527	4090.775
223	b	1070.010	16982.1197710	4092.588	-0.085	37.619	-0.403	-0.483	0.535	4092.237
224	b	1060.010	16982.1305264	4092.129	-0.084	36.678	-0.403	-0.481	0.539	4091.784
225	b	1049.990	16982.1378261	4091.875	-0.083	35.736	-0.402	-0.479	0.541	4091.535
226	b	1040.020	16982.1447081	4091.617	-0.081	34.798	-0.402	-0.477	0.543	4091.282

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
227	b	1040.020	16982.1497582	4091.610	-0.080	34.798	-0.402	-0.477	0.545	4091.276
228	b	1030.020	16982.1565229	4091.355	-0.078	33.858	-0.401	-0.475	0.547	4091.026
229	b	1020.000	16982.1623749	4091.090	-0.077	32.916	-0.401	-0.473	0.549	4090.766
230	b	1069.985	16982.1725524	4092.555	-0.074	37.617	-0.403	-0.483	0.552	4092.221
231	b	1060.000	16982.1788046	4092.112	-0.072	36.677	-0.403	-0.481	0.554	4091.782
232	b	1050.020	16982.1854543	4091.848	-0.070	35.739	-0.402	-0.479	0.556	4091.523
233	b	1040.010	16982.1911365	4091.574	-0.068	34.797	-0.402	-0.477	0.558	4091.253
234	b	1030.000	16982.1970063	4091.342	-0.066	33.856	-0.401	-0.475	0.560	4091.026
235	b	1030.000	16982.1999448	4091.336	-0.065	33.856	-0.401	-0.475	0.561	4091.021
236	b	1020.000	16982.2067052	4091.079	-0.063	32.916	-0.401	-0.473	0.563	4090.768
237	b	1020.000	16982.2262712	4091.047	-0.058	32.916	-0.401	-0.473	0.569	4090.743
238	b	1009.980	16982.2328445	4090.791	-0.056	31.973	-0.400	-0.471	0.571	4090.492
239	b	1000.020	16982.2402940	4090.472	-0.054	31.037	-0.399	-0.469	0.573	4090.177
240	b	990.000	16982.2460781	4090.121	-0.053	30.094	-0.398	-0.467	0.575	4089.831
241	b	979.985	16982.2523996	4089.806	-0.051	29.152	-0.398	-0.465	0.577	4089.520
242	b	979.985	16982.2567853	4089.806	-0.051	29.152	-0.398	-0.465	0.578	4089.522
243	b	970.010	16982.2691079	4089.425	-0.049	28.214	-0.397	-0.463	0.582	4089.147
244	b	1020.015	16982.2796652	4091.064	-0.048	32.917	-0.401	-0.473	0.586	4090.776
245	b	1010.020	16982.2856044	4090.780	-0.047	31.977	-0.400	-0.471	0.587	4090.497
246	b	1000.000	16982.2923416	4090.462	-0.047	31.035	-0.399	-0.469	0.590	4090.183
247	b	989.990	16982.2993942	4090.111	-0.047	30.093	-0.398	-0.467	0.592	4089.837
248	b	980.020	16982.3064252	4089.791	-0.048	29.156	-0.398	-0.465	0.594	4089.522
249	b	980.020	16982.3108105	4089.789	-0.048	29.156	-0.398	-0.465	0.595	4089.522
250	b	970.000	16982.3172226	4089.453	-0.049	28.213	-0.397	-0.463	0.597	4089.190
251	b	1019.970	16982.3294126	4091.032	-0.050	32.913	-0.400	-0.473	0.601	4090.759
252	b	1009.970	16982.3353282	4090.724	-0.051	31.972	-0.400	-0.471	0.603	4090.456
253	b	999.985	16982.3424947	4090.431	-0.053	31.033	-0.399	-0.469	0.605	4090.168
255	b	979.990	16982.3570133	4089.767	-0.056	29.153	-0.398	-0.465	0.610	4089.515

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
256	b	969.990	16982.3644927	4089.426	-0.058	28.212	-0.397	-0.463	0.612	4089.179
257	b	1019.990	16982.3746830	4091.028	-0.061	32.915	-0.400	-0.473	0.615	4090.770
258	b	1009.980	16982.3808212	4090.733	-0.063	31.973	-0.400	-0.471	0.617	4090.479
259	b	999.990	16982.3880450	4090.404	-0.066	31.034	-0.399	-0.469	0.620	4090.155
260	b	990.000	16982.3940874	4090.057	-0.068	30.094	-0.398	-0.467	0.621	4089.814
261	b	980.000	16982.4001907	4089.760	-0.070	29.154	-0.398	-0.465	0.623	4089.521
262	b	970.000	16982.4079541	4089.429	-0.072	28.213	-0.397	-0.463	0.626	4089.195
263	b	970.000	16982.4127975	4089.416	-0.073	28.213	-0.397	-0.463	0.627	4089.183
264	b	960.020	16982.4293693	4089.173	-0.078	27.275	-0.396	-0.461	0.633	4088.949
265	b	949.960	16982.4375197	4088.943	-0.080	26.329	-0.395	-0.459	0.635	4088.724
266	b	939.975	16982.4520010	4088.662	-0.084	25.390	-0.395	-0.457	0.640	4088.450
267	b	929.979	16982.4605069	4088.429	-0.085	24.449	-0.394	-0.455	0.642	4088.223
268	b	969.938	16982.4719433	4089.393	-0.086	28.207	-0.397	-0.463	0.646	4089.179
270	b	950.021	16982.4927496	4088.907	-0.086	26.334	-0.395	-0.459	0.652	4088.706
271	b	950.021	16982.4982624	4088.897	-0.086	26.334	-0.395	-0.459	0.654	4088.697
272	b	939.969	16982.5083879	4088.644	-0.084	25.389	-0.395	-0.457	0.657	4088.450
273	b	929.979	16982.5173255	4088.380	-0.082	24.449	-0.394	-0.455	0.660	4088.192
274	b	970.000	16982.5271799	4089.383	-0.079	28.213	-0.397	-0.463	0.663	4089.187
276	b	949.979	16982.5423051	4088.883	-0.073	26.330	-0.395	-0.459	0.668	4088.697
277	b	939.938	16982.5492038	4088.629	-0.070	25.386	-0.395	-0.457	0.670	4088.448
278	b	930.000	16982.5563638	4088.360	-0.066	24.451	-0.394	-0.455	0.672	4088.184
279	b	970.000	16982.5675776	4089.356	-0.059	28.213	-0.397	-0.463	0.676	4089.172
280	b	959.969	16982.5744884	4089.121	-0.054	27.270	-0.396	-0.461	0.678	4088.942
281	b	950.042	16982.5813920	4088.873	-0.049	26.336	-0.395	-0.459	0.680	4088.699
282	b	939.979	16982.5882210	4088.601	-0.043	25.390	-0.395	-0.457	0.682	4088.432
283	b	929.979	16982.5955589	4088.336	-0.037	24.449	-0.394	-0.455	0.685	4088.173
284	b	920.000	16982.6049499	4088.112	-0.029	23.511	-0.393	-0.453	0.688	4087.954
285	b	910.000	16982.6240077	4087.831	-0.011	22.571	-0.392	-0.450	0.694	4087.682

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
286	b	900.000	16982.6326441	4087.410	-0.002	21.630	-0.391	-0.448	0.696	4087.267
287	b	890.000	16982.6401045	4086.880	0.006	20.690	-0.390	-0.446	0.699	4086.742
288	b	930.021	16982.6565007	4088.294	0.023	24.453	-0.394	-0.455	0.704	4088.149
289	b	930.021	16982.6622835	4088.350	0.029	24.453	-0.394	-0.455	0.706	4088.207
290	b	919.979	16982.6697276	4088.095	0.037	23.509	-0.393	-0.452	0.708	4087.958
291	b	909.979	16982.6815621	4087.811	0.049	22.569	-0.392	-0.450	0.712	4087.681
294	b	890.000	16982.7039714	4086.881	0.071	20.690	-0.390	-0.446	0.719	4086.764
295	b	890.000	16982.7068585	4086.876	0.074	20.690	-0.390	-0.446	0.720	4086.760
296	b	930.000	16982.7179687	4088.347	0.084	24.451	-0.394	-0.455	0.723	4088.222
297	b	919.979	16982.7323269	4088.094	0.096	23.509	-0.393	-0.452	0.728	4087.976
298	b	909.969	16982.7432026	4087.787	0.103	22.568	-0.392	-0.450	0.731	4087.676
299	b	900.000	16982.7547479	4087.321	0.111	21.630	-0.391	-0.448	0.735	4087.217
300	b	890.021	16982.7671887	4086.860	0.117	20.692	-0.390	-0.446	0.739	4086.762
302	b	930.021	16982.7783894	4088.302	0.121	24.453	-0.394	-0.455	0.742	4088.195
303	b	920.000	16982.7837995	4088.050	0.123	23.511	-0.393	-0.453	0.744	4087.948
304	b	910.021	16982.7896855	4087.764	0.124	22.572	-0.392	-0.450	0.746	4087.667
305	b	900.000	16982.7945116	4087.341	0.125	21.630	-0.391	-0.448	0.747	4087.249
307	b	890.021	16982.8008608	4086.889	0.126	20.692	-0.390	-0.446	0.749	4086.802
308	b	890.021	16982.8064598	4086.904	0.126	20.692	-0.390	-0.446	0.751	4086.819
309	b	880.000	16982.8132937	4086.367	0.126	19.749	-0.389	-0.444	0.753	4086.287
310	b	880.000	16982.8744593	4086.350	0.102	19.749	-0.389	-0.444	0.772	4086.289
312	b	869.979	16982.8819207	4085.872	0.097	18.807	-0.388	-0.442	0.775	4085.817
313	b	869.979	16982.8843281	4085.889	0.095	18.807	-0.388	-0.442	0.775	4085.834
314	b	869.979	16982.8879077	4085.886	0.092	18.807	-0.388	-0.442	0.776	4085.832
315	b	860.000	16982.9035865	4085.421	0.079	17.868	-0.387	-0.440	0.781	4085.375
316	b	850.000	16982.9108147	4084.979	0.072	16.928	-0.386	-0.438	0.784	4084.939
317	b	850.000	16982.9151725	4084.988	0.068	16.928	-0.386	-0.438	0.785	4084.949
318	b	840.000	16982.9218971	4084.554	0.061	15.987	-0.384	-0.436	0.787	4084.520

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
321	b	920.000	16983.0302442	4087.973	-0.046	23.511	-0.393	-0.453	0.821	4087.948
322	b	909.979	16983.0372616	4087.662	-0.052	22.569	-0.392	-0.450	0.823	4087.643
323	b	899.979	16983.0429848	4087.268	-0.056	21.628	-0.391	-0.448	0.825	4087.254
324	b	890.000	16983.0533791	4086.763	-0.063	20.690	-0.390	-0.446	0.828	4086.755
325	b	890.021	16983.0589515	4086.771	-0.066	20.692	-0.390	-0.446	0.830	4086.765
326	b	880.000	16983.0646341	4086.268	-0.070	19.749	-0.389	-0.444	0.832	4086.266
327	b	870.021	16983.0725259	4085.829	-0.074	18.811	-0.388	-0.442	0.834	4085.834
329	b	870.021	16983.0781438	4085.838	-0.076	18.811	-0.388	-0.442	0.836	4085.844
330	b	860.021	16983.0874904	4085.381	-0.080	17.870	-0.387	-0.440	0.839	4085.394
331	b	850.000	16983.0954626	4084.928	-0.083	16.928	-0.386	-0.438	0.841	4084.946
332	b	840.000	16983.1049585	4084.519	-0.085	15.987	-0.384	-0.436	0.844	4084.544
333	b	890.020	16983.1312479	4086.761	-0.089	20.691	-0.390	-0.446	0.853	4086.778
334	b	890.020	16983.1347846	4086.773	-0.089	20.691	-0.390	-0.446	0.854	4086.790
335	b	880.000	16983.1409759	4086.249	-0.089	19.749	-0.389	-0.444	0.856	4086.271
336	b	869.990	16983.1532444	4085.792	-0.088	18.808	-0.388	-0.442	0.860	4085.822
337	b	859.980	16983.1614153	4085.364	-0.087	17.866	-0.387	-0.440	0.862	4085.400
338	b	850.000	16983.1702660	4084.901	-0.085	16.928	-0.386	-0.438	0.865	4084.943
340	b	850.000	16983.1808286	4084.924	-0.083	16.928	-0.386	-0.438	0.868	4084.969
341	b	839.980	16983.1877601	4084.509	-0.082	15.985	-0.384	-0.436	0.870	4084.559
342	b	890.015	16983.1996936	4086.737	-0.079	20.691	-0.390	-0.446	0.874	4086.775
345	b	869.990	16983.2175114	4085.770	-0.074	18.808	-0.388	-0.442	0.880	4085.820
346	b	869.990	16983.2216957	4085.790	-0.072	18.808	-0.388	-0.442	0.881	4085.841
347	b	859.960	16983.2279814	4085.316	-0.071	17.864	-0.387	-0.440	0.883	4085.372
348	b	850.020	16983.2493435	4084.890	-0.065	16.930	-0.386	-0.438	0.890	4084.957
349	b	850.020	16983.2545227	4084.916	-0.064	16.930	-0.386	-0.438	0.891	4084.983
350	b	839.875	16983.2658709	4084.455	-0.061	15.976	-0.384	-0.436	0.895	4084.530
351	b	890.020	16983.2820761	4086.711	-0.058	20.691	-0.390	-0.446	0.900	4086.775
352	b	879.950	16983.2914632	4086.193	-0.057	19.744	-0.389	-0.444	0.903	4086.263

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
353	b	869.980	16983.2982189	4085.748	-0.057	18.807	-0.388	-0.442	0.905	4085.823
355	b	869.980	16983.3094934	4085.747	-0.056	18.807	-0.388	-0.442	0.909	4085.826
356	b	860.020	16983.3170871	4085.279	-0.056	17.870	-0.387	-0.440	0.911	4085.363
357	b	850.020	16983.3257602	4084.831	-0.056	16.930	-0.386	-0.438	0.914	4084.921
358	b	850.020	16983.3315817	4084.868	-0.056	16.930	-0.386	-0.438	0.916	4084.960
359	b	840.020	16983.3386977	4084.453	-0.057	15.989	-0.384	-0.436	0.918	4084.551
360	b	840.020	16983.3442426	4084.448	-0.058	15.989	-0.384	-0.436	0.920	4084.547
361	b	830.000	16983.3556306	4083.998	-0.059	15.047	-0.383	-0.434	0.923	4084.104
362	b	819.990	16983.3634528	4083.562	-0.060	14.106	-0.382	-0.432	0.926	4083.674
363	b	810.000	16983.3701369	4083.258	-0.062	13.166	-0.381	-0.429	0.928	4083.375
364	b	810.000	16983.3750403	4083.285	-0.063	13.166	-0.381	-0.429	0.929	4083.404
365	b	799.990	16983.3820663	4083.069	-0.065	12.225	-0.379	-0.427	0.931	4083.194
366	b	790.020	16983.3891681	4082.853	-0.067	11.287	-0.378	-0.425	0.934	4082.983
367	b	839.970	16983.4248518	4084.414	-0.076	15.985	-0.384	-0.436	0.945	4084.539
368	b	829.980	16983.4307257	4084.003	-0.078	15.045	-0.383	-0.434	0.947	4084.133
369	b	820.020	16983.4370312	4083.550	-0.080	14.108	-0.382	-0.432	0.949	4083.686
370	b	810.000	16983.4470786	4083.253	-0.082	13.166	-0.381	-0.429	0.952	4083.394
371	b	810.000	16983.4542569	4083.253	-0.084	13.166	-0.381	-0.429	0.954	4083.396
372	b	799.960	16983.4613656	4083.037	-0.085	12.222	-0.379	-0.427	0.956	4083.186
373	b	789.990	16983.4695069	4082.809	-0.087	11.284	-0.378	-0.425	0.959	4082.965
1	c	840.021	16983.5163300	4084.376	-0.088	15.989	-0.384	-0.436	0.974	4084.529
2	c	829.979	16983.5251600	4083.955	-0.086	15.045	-0.383	-0.434	0.976	4084.114
3	c	819.979	16983.5339300	4083.505	-0.084	14.105	-0.382	-0.432	0.979	4083.671
4	c	810.000	16983.5425600	4083.163	-0.081	13.166	-0.381	-0.429	0.982	4083.335
5	c	810.000	16983.5480300	4083.194	-0.079	13.166	-0.381	-0.429	0.983	4083.367
6	c	799.979	16983.5549600	4082.993	-0.076	12.224	-0.379	-0.427	0.986	4083.172
7	c	790.000	16983.5620800	4082.753	-0.073	11.285	-0.378	-0.425	0.988	4082.938
8	c	840.000	16983.5766200	4084.348	-0.065	15.987	-0.384	-0.436	0.992	4084.520

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
9	c	829.979	16983.5866500	4083.931	-0.058	15.045	-0.383	-0.434	0.996	4084.110
10	c	819.979	16983.5930000	4083.484	-0.053	14.105	-0.382	-0.432	0.998	4083.668
11	c	809.979	16983.6014600	4083.152	-0.047	13.164	-0.381	-0.429	1.000	4083.342
12	c	809.979	16983.6058100	4083.182	-0.043	13.164	-0.381	-0.429	1.002	4083.373
13	c	799.979	16983.6124900	4082.963	-0.037	12.224	-0.379	-0.427	1.004	4083.160
15	c	790.000	16983.6214300	4082.719	-0.029	11.285	-0.378	-0.425	1.006	4082.922
16	c	790.000	16983.6279800	4082.746	-0.023	11.285	-0.378	-0.425	1.009	4082.951
17	c	779.958	16983.6373600	4082.510	-0.014	10.341	-0.377	-0.423	1.011	4082.722
18	c	770.000	16983.6568100	4082.291	0.007	9.404	-0.375	-0.421	1.018	4082.512
19	c	760.010	16983.6638700	4082.037	0.015	8.465	-0.374	-0.419	1.020	4082.264
23	c	790.000	16983.6987400	4082.735	0.053	11.285	-0.378	-0.425	1.031	4082.963
24	c	780.010	16983.7057800	4082.525	0.060	10.346	-0.377	-0.423	1.033	4082.758
25	c	770.000	16983.7133600	4082.268	0.068	9.404	-0.375	-0.421	1.035	4082.507
26	c	759.990	16983.7223400	4082.044	0.077	8.463	-0.374	-0.419	1.038	4082.290
27	c	750.000	16983.7295400	4081.813	0.084	7.523	-0.372	-0.417	1.040	4082.065
28	c	750.000	16983.7354700	4081.820	0.090	7.523	-0.372	-0.417	1.042	4082.073
29	c	739.979	16983.7450300	4081.548	0.098	6.581	-0.371	-0.414	1.045	4081.808
30	c	790.000	16983.7626600	4082.760	0.112	11.285	-0.378	-0.425	1.051	4083.008
31	c	780.000	16983.7679400	4082.520	0.115	10.345	-0.377	-0.423	1.052	4082.773
32	c	770.000	16983.7739700	4082.267	0.119	9.404	-0.375	-0.421	1.054	4082.525
33	c	760.000	16983.7788800	4082.039	0.122	8.464	-0.374	-0.419	1.056	4082.302
34	c	749.990	16983.7843600	4081.798	0.125	7.522	-0.372	-0.417	1.058	4082.067
35	c	749.990	16983.7885100	4081.812	0.127	7.522	-0.372	-0.417	1.059	4082.082
36	c	739.969	16983.7937200	4081.558	0.129	6.580	-0.371	-0.414	1.061	4081.834
38	c	789.990	16983.8213500	4082.731	0.136	11.284	-0.378	-0.425	1.069	4082.997
39	c	780.000	16983.8271100	4082.476	0.136	10.345	-0.377	-0.423	1.071	4082.747
40	c	770.000	16983.8319500	4082.266	0.136	9.404	-0.375	-0.421	1.073	4082.542
41	c	760.000	16983.8369000	4082.012	0.136	8.464	-0.374	-0.419	1.074	4082.294

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
42	c	749.990	16983.8425000	4081.765	0.136	7.522	-0.372	-0.417	1.076	4082.052
45	c	729.990	16983.8624300	4081.226	0.130	5.642	-0.369	-0.412	1.082	4081.527
46	c	719.896	16983.8682700	4080.840	0.128	4.692	-0.367	-0.410	1.084	4081.146
47	c	719.896	16983.8725400	4080.852	0.126	4.692	-0.367	-0.410	1.085	4081.160
48	c	710.000	16983.8809300	4080.437	0.122	3.762	-0.366	-0.408	1.088	4080.751
49	c	700.000	16983.8913100	4080.018	0.116	2.821	-0.364	-0.406	1.091	4080.339
50	c	689.979	16983.8969700	4079.709	0.112	1.879	-0.362	-0.403	1.093	4080.036
51	c	740.000	16983.9067900	4081.512	0.105	6.583	-0.371	-0.414	1.096	4081.823
52	c	730.000	16983.9120700	4081.194	0.100	5.643	-0.369	-0.412	1.098	4081.510
53	c	719.990	16983.9174800	4080.855	0.096	4.701	-0.367	-0.410	1.099	4081.177
54	c	719.990	16983.9215600	4080.865	0.092	4.701	-0.367	-0.410	1.101	4081.188
56	c	700.000	16983.9335100	4079.965	0.081	2.821	-0.364	-0.406	1.104	4080.300
57	c	689.990	16983.9412400	4079.718	0.074	1.880	-0.362	-0.404	1.107	4080.059
58	c	739.958	16983.9504300	4081.499	0.064	6.579	-0.371	-0.414	1.110	4081.824
59	c	729.979	16983.9560800	4081.217	0.058	5.641	-0.369	-0.412	1.111	4081.547
60	c	720.000	16983.9621500	4080.866	0.052	4.702	-0.367	-0.410	1.113	4081.202
61	c	720.000	16983.9660600	4080.868	0.048	4.702	-0.367	-0.410	1.115	4081.205
62	c	710.027	16983.9716100	4080.429	0.042	3.764	-0.366	-0.408	1.116	4080.772
63	c	700.000	16983.9768800	4079.995	0.036	2.821	-0.364	-0.406	1.118	4080.343
64	c	689.979	16983.9822400	4079.668	0.030	1.879	-0.362	-0.403	1.120	4080.022
65	c	740.000	16983.9960000	4081.511	0.015	6.583	-0.371	-0.414	1.124	4081.850
66	c	730.000	16984.0019800	4081.215	0.009	5.643	-0.369	-0.412	1.126	4081.560
67	c	720.000	16984.0070500	4080.832	0.004	4.702	-0.367	-0.410	1.127	4081.182
68	c	720.000	16984.0108600	4080.843	0.000	4.702	-0.367	-0.410	1.129	4081.194
69	c	720.000	16984.0151500	4080.845	-0.005	4.702	-0.367	-0.410	1.130	4081.197
70	c	710.000	16984.0207500	4080.401	-0.011	3.762	-0.366	-0.408	1.132	4080.759
71	c	700.000	16984.0270300	4079.969	-0.017	2.821	-0.364	-0.406	1.134	4080.333
72	c	690.000	16984.0337500	4079.710	-0.023	1.881	-0.362	-0.404	1.136	4080.080

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
73	c	690.000	16984.0391600	4079.731	-0.028	1.881	-0.362	-0.404	1.138	4080.103
74	c	679.979	16984.0512500	4079.518	-0.039	0.938	-0.360	-0.401	1.141	4079.898
75	c	670.000	16984.0579000	4079.304	-0.045	0.000	-0.359	-0.399	1.143	4079.690
76	c	660.000	16984.0641700	4079.086	-0.050	-0.940	-0.357	-0.397	1.145	4079.478
77	c	650.000	16984.0845800	4078.817	-0.064	-1.881	-0.355	-0.395	1.152	4079.219
78	c	640.000	16984.0904900	4078.624	-0.067	-2.821	-0.353	-0.392	1.154	4079.033
79	c	690.000	16984.0991500	4079.698	-0.072	1.881	-0.362	-0.404	1.156	4080.089
80	c	679.979	16984.1081200	4079.492	-0.076	0.938	-0.360	-0.401	1.159	4079.889
81	c	669.990	16984.1147100	4079.276	-0.079	-0.001	-0.358	-0.399	1.161	4079.680
83	c	649.979	16984.1264200	4078.804	-0.083	-1.883	-0.355	-0.395	1.165	4079.220
84	c	639.979	16984.1320000	4078.612	-0.084	-2.823	-0.353	-0.392	1.167	4079.034
85	c	689.958	16984.1401500	4079.709	-0.086	1.877	-0.362	-0.403	1.169	4080.113
86	c	680.000	16984.1452100	4079.464	-0.087	0.940	-0.360	-0.401	1.171	4079.873
87	c	670.000	16984.1498300	4079.270	-0.087	0.000	-0.359	-0.399	1.172	4079.685
88	c	659.970	16984.1595300	4079.075	-0.088	-0.943	-0.357	-0.397	1.175	4079.497
89	c	649.990	16984.1653300	4078.843	-0.088	-1.882	-0.355	-0.395	1.177	4079.271
90	c	640.000	16984.1706100	4078.606	-0.088	-2.821	-0.353	-0.392	1.179	4079.040
91	c	690.015	16984.1795500	4079.679	-0.088	1.882	-0.362	-0.404	1.182	4080.095
92	c	680.000	16984.1851100	4079.443	-0.088	0.940	-0.360	-0.401	1.183	4079.865
93	c	669.980	16984.1912800	4079.254	-0.087	-0.002	-0.358	-0.399	1.185	4079.682
94	c	660.010	16984.1966700	4079.016	-0.086	-0.939	-0.357	-0.397	1.187	4079.449
95	c	650.020	16984.2029600	4078.821	-0.085	-1.879	-0.355	-0.395	1.189	4079.261
96	c	640.000	16984.2108700	4078.566	-0.084	-2.821	-0.353	-0.392	1.191	4079.012
97	c	640.000	16984.2153500	4078.583	-0.083	-2.821	-0.353	-0.392	1.193	4079.031
98	c	630.020	16984.2204200	4078.395	-0.082	-3.760	-0.351	-0.390	1.194	4078.848
99	c	621.310	16984.2264100	4078.183	-0.081	-4.579	-0.349	-0.388	1.196	4078.642
100	c	610.000	16984.2327800	4077.922	-0.079	-5.643	-0.346	-0.386	1.198	4078.388
101	c	599.950	16984.2388700	4077.749	-0.078	-6.588	-0.344	-0.384	1.200	4078.221

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
102	c	589.970	16984.2445400	4077.479	-0.077	-7.526	-0.342	-0.381	1.202	4077.958
103	c	640.020	16984.2531100	4078.567	-0.075	-2.819	-0.353	-0.393	1.205	4079.027
106	c	629.980	16984.2635000	4078.381	-0.072	-3.764	-0.351	-0.390	1.208	4078.848
107	c	621.350	16984.2710600	4078.198	-0.071	-4.575	-0.349	-0.388	1.210	4078.671
108	c	610.000	16984.2775600	4077.893	-0.069	-5.643	-0.346	-0.386	1.212	4078.373
109	c	599.990	16984.2836100	4077.728	-0.068	-6.584	-0.344	-0.384	1.214	4078.214
110	c	590.010	16984.2894100	4077.534	-0.067	-7.522	-0.342	-0.381	1.216	4078.027
111	c	640.000	16984.2979400	4078.601	-0.066	-2.821	-0.353	-0.392	1.219	4079.075
112	c	630.000	16984.3033600	4078.338	-0.065	-3.762	-0.351	-0.390	1.220	4078.818
113	c	621.330	16984.3112500	4078.161	-0.064	-4.577	-0.349	-0.388	1.223	4078.647
114	c	609.990	16984.3178700	4077.957	-0.064	-5.643	-0.346	-0.386	1.225	4078.450
115	c	600.000	16984.3232500	4077.679	-0.063	-6.583	-0.344	-0.384	1.227	4078.178
116	c	589.980	16984.3287400	4077.490	-0.063	-7.525	-0.342	-0.381	1.228	4077.995
117	c	640.020	16984.3449000	4078.549	-0.063	-2.819	-0.353	-0.393	1.233	4079.037
118	c	630.000	16984.3522300	4078.356	-0.063	-3.762	-0.351	-0.390	1.236	4078.851
119	c	621.350	16984.3595000	4078.128	-0.064	-4.575	-0.349	-0.388	1.238	4078.629
120	c	610.000	16984.3647000	4077.907	-0.064	-5.643	-0.346	-0.386	1.240	4078.414
121	c	600.010	16984.3734700	4077.658	-0.065	-6.582	-0.344	-0.384	1.242	4078.173
122	c	590.010	16984.3831000	4077.497	-0.067	-7.522	-0.342	-0.381	1.245	4078.019
123	c	590.010	16984.3973600	4077.542	-0.070	-7.522	-0.342	-0.381	1.250	4078.069
124	c	580.030	16984.4056700	4077.267	-0.071	-8.461	-0.340	-0.379	1.253	4077.801
125	c	569.990	16984.4117200	4077.064	-0.073	-9.405	-0.337	-0.377	1.254	4077.604
127	c	549.980	16984.4303400	4076.579	-0.077	-11.287	-0.332	-0.372	1.260	4077.135
128	c	540.000	16984.4378800	4076.263	-0.079	-12.225	-0.330	-0.370	1.263	4076.826
129	c	590.000	16984.4453700	4077.466	-0.081	-7.523	-0.342	-0.381	1.265	4078.008
131	c	579.979	16984.4560100	4077.271	-0.083	-8.466	-0.339	-0.379	1.268	4077.821
132	c	569.990	16984.4622500	4077.072	-0.085	-9.405	-0.337	-0.377	1.270	4077.628
133	c	559.990	16984.4680900	4076.815	-0.086	-10.345	-0.335	-0.375	1.272	4077.378

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
134	c	550.000	16984.4731800	4076.565	-0.087	-11.285	-0.332	-0.373	1.274	4077.134
135	c	539.979	16984.4864400	4076.240	-0.089	-12.227	-0.330	-0.370	1.278	4076.818
136	c	589.969	16984.4970700	4077.493	-0.090	-7.526	-0.342	-0.381	1.281	4078.051
137	c	580.000	16984.5043700	4077.271	-0.091	-8.464	-0.340	-0.379	1.283	4077.836
138	c	570.000	16984.5108900	4077.086	-0.091	-9.404	-0.337	-0.377	1.286	4077.657
139	c	559.958	16984.5171500	4076.802	-0.091	-10.349	-0.335	-0.375	1.287	4077.380
140	c	549.990	16984.5234500	4076.565	-0.090	-11.286	-0.332	-0.373	1.289	4077.150
141	c	540.021	16984.5295300	4076.221	-0.090	-12.223	-0.330	-0.370	1.291	4076.812
142	c	590.010	16984.5374900	4077.487	-0.089	-7.522	-0.342	-0.381	1.294	4078.058
143	c	580.010	16984.5463000	4077.266	-0.087	-8.463	-0.340	-0.379	1.297	4077.844
144	c	569.990	16984.5540300	4077.039	-0.085	-9.405	-0.337	-0.377	1.299	4077.624
145	c	560.000	16984.5602100	4076.808	-0.083	-10.345	-0.335	-0.375	1.301	4077.400
146	c	549.979	16984.5675200	4076.511	-0.080	-11.287	-0.332	-0.372	1.303	4077.110
147	c	539.979	16984.5742100	4076.229	-0.077	-12.227	-0.330	-0.370	1.305	4076.834
148	c	539.979	16984.5930100	4076.250	-0.067	-12.227	-0.330	-0.370	1.311	4076.861
149	c	530.000	16984.6004400	4075.878	-0.062	-13.166	-0.327	-0.368	1.314	4076.497
151	c	520.000	16984.6395600	4075.593	-0.031	-14.106	-0.324	-0.366	1.326	4076.229
152	c	540.000	16984.6522800	4076.176	-0.018	-12.225	-0.330	-0.370	1.330	4076.806
153	c	530.000	16984.6580900	4075.910	-0.012	-13.166	-0.327	-0.368	1.332	4076.547
154	c	519.990	16984.6645900	4075.573	-0.006	-14.107	-0.324	-0.366	1.334	4076.217
155	c	509.990	16984.6706300	4075.146	0.001	-15.048	-0.322	-0.363	1.336	4075.796
157	c	499.990	16984.6835000	4074.717	0.015	-15.988	-0.319	-0.361	1.340	4075.377
158	c	490.000	16984.6896400	4074.287	0.021	-16.927	-0.316	-0.359	1.342	4074.954
159	c	540.000	16984.7016100	4076.237	0.035	-12.225	-0.330	-0.370	1.345	4076.882
160	c	530.000	16984.7084800	4075.917	0.042	-13.166	-0.327	-0.368	1.347	4076.569
161	c	520.000	16984.7150700	4075.589	0.049	-14.106	-0.324	-0.366	1.350	4076.248
162	c	510.000	16984.7221400	4075.159	0.057	-15.047	-0.322	-0.364	1.352	4075.826
163	c	510.000	16984.7263100	4075.175	0.061	-15.047	-0.322	-0.364	1.353	4075.843

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
164	c	499.979	16984.7351800	4074.746	0.071	-15.989	-0.319	-0.361	1.356	4075.422
165	c	490.010	16984.7448500	4074.296	0.081	-16.926	-0.316	-0.359	1.359	4074.980
167	c	540.000	16984.7592400	4076.197	0.094	-12.225	-0.330	-0.370	1.363	4076.861
168	c	530.000	16984.7688500	4075.873	0.103	-13.166	-0.327	-0.368	1.366	4076.544
169	c	520.000	16984.7748600	4075.575	0.107	-14.106	-0.324	-0.366	1.368	4076.253
170	c	510.000	16984.7790500	4075.135	0.111	-15.047	-0.322	-0.364	1.370	4075.819
171	c	510.000	16984.7827600	4075.131	0.114	-15.047	-0.322	-0.364	1.371	4075.817
172	c	500.000	16984.7884700	4074.717	0.118	-15.987	-0.319	-0.361	1.373	4075.409
173	c	490.000	16984.7929900	4074.267	0.121	-16.927	-0.316	-0.359	1.374	4074.966
174	c	540.000	16984.8011500	4076.213	0.125	-12.225	-0.330	-0.370	1.377	4076.890
175	c	530.000	16984.8070500	4075.892	0.129	-13.166	-0.327	-0.368	1.378	4076.575
176	c	520.000	16984.8141600	4075.567	0.132	-14.106	-0.324	-0.366	1.381	4076.258
177	c	510.000	16984.8200600	4075.162	0.134	-15.047	-0.322	-0.364	1.382	4075.859
178	c	500.000	16984.8257000	4074.717	0.136	-15.987	-0.319	-0.361	1.384	4075.421
179	c	490.021	16984.8313100	4074.232	0.138	-16.925	-0.316	-0.359	1.386	4074.943
180	c	539.979	16984.8405700	4076.190	0.140	-12.227	-0.330	-0.370	1.389	4076.879
181	c	530.000	16984.8459000	4075.842	0.140	-13.166	-0.327	-0.368	1.391	4076.538
182	c	520.000	16984.8511300	4075.550	0.141	-14.106	-0.324	-0.366	1.392	4076.252
183	c	510.000	16984.8584700	4075.134	0.140	-15.047	-0.322	-0.364	1.395	4075.843
184	c	500.000	16984.8669500	4074.710	0.140	-15.987	-0.319	-0.361	1.397	4075.427
185	c	490.000	16984.8768100	4074.278	0.138	-16.927	-0.316	-0.359	1.400	4075.003
186	c	490.000	16984.8829300	4074.299	0.136	-16.927	-0.316	-0.359	1.402	4075.026
188	c	470.010	16984.8951900	4073.380	0.131	-18.807	-0.310	-0.354	1.406	4074.121
189	c	470.010	16984.8997500	4073.397	0.129	-18.807	-0.310	-0.354	1.407	4074.140
190	c	460.000	16984.9083600	4072.900	0.124	-19.749	-0.307	-0.352	1.410	4073.651
191	c	450.000	16984.9140100	4072.518	0.121	-20.689	-0.304	-0.350	1.412	4073.276
192	c	450.000	16984.9196300	4072.535	0.117	-20.689	-0.304	-0.350	1.414	4073.295
193	c	440.000	16984.9247900	4072.305	0.114	-21.629	-0.301	-0.348	1.415	4073.072

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
194	c	490.000	16984.9343700	4074.293	0.107	-16.927	-0.316	-0.359	1.418	4075.036
195	c	479.979	16984.9408300	4073.822	0.101	-17.870	-0.313	-0.357	1.420	4074.572
196	c	470.021	16984.9476500	4073.378	0.095	-18.806	-0.310	-0.354	1.423	4074.136
197	c	470.021	16984.9530900	4073.381	0.091	-18.806	-0.310	-0.354	1.424	4074.141
198	c	470.021	16984.9607500	4073.374	0.083	-18.806	-0.310	-0.354	1.427	4074.136
199	c	470.021	16984.9649000	4073.373	0.079	-18.806	-0.310	-0.354	1.428	4074.136
200	c	460.000	16984.9723800	4072.858	0.072	-19.749	-0.307	-0.352	1.430	4073.629
201	c	450.021	16984.9802800	4072.492	0.064	-20.687	-0.304	-0.350	1.433	4073.271
202	c	440.000	16984.9865000	4072.263	0.058	-21.629	-0.301	-0.348	1.435	4073.049
203	c	490.000	16984.9975800	4074.285	0.046	-16.927	-0.316	-0.359	1.438	4075.048
204	c	479.979	16985.0058600	4073.806	0.037	-17.870	-0.313	-0.357	1.441	4074.577
205	c	470.021	16985.0131700	4073.353	0.029	-18.806	-0.310	-0.354	1.443	4074.131
206	c	460.000	16985.0213800	4072.870	0.021	-19.749	-0.307	-0.352	1.446	4073.656
207	c	450.021	16985.0285000	4072.499	0.013	-20.687	-0.304	-0.350	1.448	4073.293
208	c	440.000	16985.0348200	4072.260	0.007	-21.629	-0.301	-0.348	1.450	4073.061
209	c	490.000	16985.0480500	4074.269	-0.007	-16.927	-0.316	-0.359	1.454	4075.048
210	c	480.000	16985.0553200	4073.814	-0.014	-17.868	-0.313	-0.357	1.456	4074.600
211	c	470.000	16985.0627900	4073.313	-0.021	-18.808	-0.310	-0.354	1.459	4074.107
212	c	460.000	16985.0721200	4072.858	-0.029	-19.749	-0.307	-0.352	1.462	4073.660
213	c	450.021	16985.0786700	4072.482	-0.035	-20.687	-0.304	-0.350	1.464	4073.292
214	c	440.000	16985.0854100	4072.265	-0.040	-21.629	-0.301	-0.348	1.466	4073.082
215	c	440.000	16985.0899000	4072.269	-0.044	-21.629	-0.301	-0.348	1.467	4073.088
216	c	439.979	16985.1076300	4072.270	-0.056	-21.631	-0.301	-0.348	1.473	4073.094
217	c	430.000	16985.1156300	4072.048	-0.061	-22.570	-0.298	-0.345	1.475	4072.880
218	c	420.000	16985.1243400	4071.868	-0.066	-23.510	-0.294	-0.343	1.478	4072.709
219	c	410.010	16985.1318600	4071.647	-0.070	-24.450	-0.291	-0.341	1.480	4072.496
220	c	400.000	16985.1383800	4071.411	-0.073	-25.391	-0.287	-0.338	1.482	4072.268
221	c	390.000	16985.1441400	4071.209	-0.075	-26.331	-0.284	-0.336	1.484	4072.073

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
222	c	439.970	16985.1534000	4072.275	-0.078	-21.632	-0.301	-0.348	1.487	4073.114
223	c	430.000	16985.1591300	4072.060	-0.080	-22.570	-0.298	-0.345	1.489	4072.906
224	c	419.990	16985.1661100	4071.863	-0.082	-23.511	-0.294	-0.343	1.491	4072.717
225	c	410.010	16985.1726500	4071.632	-0.083	-24.450	-0.291	-0.341	1.493	4072.493
226	c	400.000	16985.1788600	4071.404	-0.084	-25.391	-0.287	-0.338	1.495	4072.273
227	c	390.000	16985.1850300	4071.171	-0.085	-26.331	-0.284	-0.336	1.497	4072.048
228	c	439.990	16985.1949300	4072.244	-0.086	-21.630	-0.301	-0.348	1.500	4073.096
229	c	439.990	16985.1989200	4072.257	-0.086	-21.630	-0.301	-0.348	1.501	4073.110
230	c	430.010	16985.2065600	4072.037	-0.086	-22.569	-0.298	-0.345	1.504	4072.898
232	c	420.010	16985.2138400	4071.817	-0.086	-23.509	-0.294	-0.343	1.506	4072.686
233	c	409.990	16985.2206200	4071.631	-0.085	-24.451	-0.291	-0.341	1.508	4072.508
234	c	400.010	16985.2263900	4071.414	-0.085	-25.390	-0.287	-0.338	1.510	4072.298
235	c	390.000	16985.2328900	4071.184	-0.084	-26.331	-0.284	-0.336	1.512	4072.076
236	c	439.990	16985.2425400	4072.236	-0.083	-21.630	-0.301	-0.348	1.515	4073.103
237	c	430.000	16985.2492200	4072.052	-0.082	-22.570	-0.298	-0.345	1.517	4072.926
238	c	419.990	16985.2584600	4071.809	-0.080	-23.511	-0.294	-0.343	1.520	4072.692
239	c	409.985	16985.2669800	4071.620	-0.079	-24.452	-0.291	-0.341	1.523	4072.511
240	c	400.010	16985.2733600	4071.403	-0.078	-25.390	-0.287	-0.338	1.525	4072.302
241	c	389.990	16985.2796900	4071.182	-0.077	-26.332	-0.284	-0.336	1.527	4072.089
242	c	389.990	16985.2878300	4071.196	-0.075	-26.332	-0.284	-0.336	1.529	4072.105
243	c	379.990	16985.3009100	4070.997	-0.073	-27.273	-0.280	-0.334	1.533	4071.916
244	c	370.000	16985.3091600	4070.769	-0.072	-28.212	-0.276	-0.332	1.536	4071.697
245	c	359.980	16985.3195800	4070.510	-0.071	-29.154	-0.273	-0.329	1.539	4071.447
246	c	350.030	16985.3264900	4070.231	-0.070	-30.090	-0.269	-0.327	1.541	4071.177
247	c	340.000	16985.3328300	4069.921	-0.069	-31.033	-0.265	-0.325	1.543	4070.875
248	c	340.000	16985.3378200	4069.923	-0.069	-31.033	-0.265	-0.325	1.545	4070.879
249	c	389.970	16985.3502200	4071.204	-0.069	-26.334	-0.284	-0.336	1.549	4072.133
250	c	380.020	16985.3585000	4070.969	-0.068	-27.270	-0.280	-0.334	1.551	4071.906

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
251	c	370.020	16985.3685300	4070.742	-0.069	-28.210	-0.276	-0.332	1.555	4071.689
252	c	360.010	16985.3750500	4070.475	-0.069	-29.151	-0.273	-0.329	1.557	4071.430
253	c	349.980	16985.3824500	4070.209	-0.069	-30.095	-0.269	-0.327	1.559	4071.172
254	c	349.980	16985.3864900	4070.190	-0.070	-30.095	-0.269	-0.327	1.560	4071.154
256	c	390.020	16985.4045400	4071.183	-0.072	-26.329	-0.284	-0.336	1.566	4072.129
257	c	380.020	16985.4131000	4070.963	-0.073	-27.270	-0.280	-0.334	1.569	4071.917
258	c	369.980	16985.4196600	4070.721	-0.074	-28.214	-0.276	-0.332	1.571	4071.684
259	c	360.020	16985.4275400	4070.483	-0.076	-29.151	-0.273	-0.329	1.573	4071.454
260	c	350.020	16985.4351900	4070.198	-0.077	-30.091	-0.269	-0.327	1.575	4071.178
261	c	350.020	16985.4396600	4070.156	-0.078	-30.091	-0.269	-0.327	1.577	4071.137
262	c	340.031	16985.4519900	4069.929	-0.081	-31.030	-0.265	-0.325	1.581	4070.920
263	c	390.000	16985.4640000	4071.139	-0.083	-26.331	-0.284	-0.336	1.584	4072.104
264	c	380.000	16985.4760800	4070.933	-0.086	-27.272	-0.280	-0.334	1.588	4071.907
267	c	360.000	16985.4985100	4070.456	-0.089	-29.152	-0.273	-0.329	1.595	4071.449
269	c	350.000	16985.5325200	4070.156	-0.091	-30.093	-0.269	-0.327	1.606	4071.166
270	c	350.000	16985.5376300	4070.165	-0.091	-30.093	-0.269	-0.327	1.608	4071.177
271	c	340.000	16985.5467500	4069.861	-0.090	-31.033	-0.265	-0.325	1.610	4070.882
273	c	330.000	16985.5771800	4069.556	-0.084	-31.974	-0.261	-0.322	1.620	4070.593
274	c	320.000	16985.5873800	4069.249	-0.080	-32.914	-0.256	-0.320	1.623	4070.296
275	c	309.958	16985.5968300	4068.933	-0.076	-33.858	-0.252	-0.318	1.626	4069.989
276	c	299.969	16985.6148700	4068.603	-0.067	-34.798	-0.248	-0.315	1.632	4069.672
277	c	299.969	16985.6195600	4068.605	-0.064	-34.798	-0.248	-0.315	1.633	4069.675
278	c	289.969	16985.6307100	4068.231	-0.056	-35.738	-0.243	-0.313	1.637	4069.312
281	c	340.000	16985.6535900	4069.873	-0.038	-31.033	-0.265	-0.325	1.644	4070.928
282	c	329.969	16985.6620100	4069.550	-0.031	-31.976	-0.260	-0.322	1.647	4070.614
283	c	320.031	16985.6715400	4069.248	-0.022	-32.911	-0.256	-0.320	1.650	4070.321
284	c	309.969	16985.6798000	4068.943	-0.014	-33.857	-0.252	-0.318	1.652	4070.026
285	c	299.990	16985.6874600	4068.610	-0.006	-34.796	-0.248	-0.315	1.655	4069.702

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
287	c	299.990	16985.6969400	4068.597	0.004	-34.796	-0.248	-0.315	1.658	4069.692
288	c	290.010	16985.7058200	4068.244	0.013	-35.734	-0.243	-0.313	1.660	4069.348
290	c	340.000	16985.7600500	4069.837	0.070	-31.033	-0.265	-0.325	1.677	4070.925
291	c	330.000	16985.7675300	4069.520	0.077	-31.974	-0.261	-0.322	1.680	4070.617
292	c	320.000	16985.7738100	4069.198	0.083	-32.914	-0.256	-0.320	1.682	4070.303
293	c	310.000	16985.7787600	4068.888	0.088	-33.854	-0.252	-0.318	1.683	4070.002
295	c	330.000	16985.7994900	4069.537	0.105	-31.974	-0.261	-0.322	1.690	4070.644
296	c	320.000	16985.8050300	4069.218	0.109	-32.914	-0.256	-0.320	1.691	4070.333
297	c	310.000	16985.8108600	4068.910	0.113	-33.854	-0.252	-0.318	1.693	4070.034
298	c	310.000	16985.8159900	4068.927	0.117	-33.854	-0.252	-0.318	1.695	4070.052
299	c	300.000	16985.8223300	4068.589	0.121	-34.795	-0.248	-0.315	1.697	4069.723
300	c	290.000	16985.8289100	4068.205	0.124	-35.735	-0.243	-0.313	1.699	4069.348
302	c	330.000	16985.8455100	4069.528	0.132	-31.974	-0.261	-0.322	1.704	4070.649
303	c	320.000	16985.8518200	4069.192	0.134	-32.914	-0.256	-0.320	1.706	4070.322
304	c	309.979	16985.8577100	4068.891	0.135	-33.856	-0.252	-0.318	1.708	4070.029
305	c	309.979	16985.8617100	4068.902	0.136	-33.856	-0.252	-0.318	1.709	4070.042
306	c	300.000	16985.8676100	4068.574	0.137	-34.795	-0.248	-0.315	1.711	4069.722
307	c	289.979	16985.8731900	4068.193	0.138	-35.737	-0.243	-0.313	1.713	4069.350
308	c	289.979	16985.8780900	4068.197	0.138	-35.737	-0.243	-0.313	1.714	4069.355
309	c	280.000	16985.8895400	4067.803	0.137	-36.675	-0.238	-0.311	1.718	4068.972
310	c	270.000	16985.8951500	4067.399	0.137	-37.616	-0.234	-0.309	1.720	4068.577
311	c	260.021	16985.9018700	4067.107	0.135	-38.554	-0.229	-0.306	1.722	4068.294
312	c	260.021	16985.9062300	4067.103	0.134	-38.554	-0.229	-0.306	1.723	4068.292
313	c	250.000	16985.9121000	4066.633	0.132	-39.497	-0.223	-0.304	1.725	4067.831
314	c	240.000	16985.9176500	4066.194	0.130	-40.437	-0.218	-0.301	1.727	4067.401
315	c	290.000	16985.9272700	4068.207	0.126	-35.735	-0.243	-0.313	1.730	4069.381
316	c	280.000	16985.9362000	4067.792	0.122	-36.675	-0.238	-0.311	1.733	4068.976
317	c	270.000	16985.9415500	4067.397	0.119	-37.616	-0.234	-0.309	1.734	4068.589

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
318	c	260.021	16985.9482100	4067.110	0.115	-38.554	-0.229	-0.306	1.736	4068.312
319	c	260.021	16985.9523200	4067.099	0.112	-38.554	-0.229	-0.306	1.738	4068.302
320	c	250.021	16985.9576900	4066.621	0.108	-39.495	-0.223	-0.304	1.739	4067.833
321	c	240.000	16985.9636500	4066.205	0.104	-40.437	-0.218	-0.301	1.741	4067.427
322	c	290.000	16985.9740100	4068.191	0.095	-35.735	-0.243	-0.313	1.744	4069.379
323	c	280.000	16985.9801000	4067.787	0.090	-36.675	-0.238	-0.311	1.746	4068.984
324	c	270.000	16985.9861700	4067.379	0.085	-37.616	-0.234	-0.309	1.748	4068.585
325	c	260.000	16985.9914800	4067.090	0.080	-38.556	-0.228	-0.306	1.750	4068.305
326	c	260.000	16985.9952100	4067.084	0.077	-38.556	-0.228	-0.306	1.751	4068.300
327	c	250.000	16986.0016600	4066.609	0.071	-39.497	-0.223	-0.304	1.753	4067.835
328	c	240.000	16986.0078200	4066.183	0.065	-40.437	-0.218	-0.301	1.755	4067.418
329	c	290.000	16986.0204300	4068.172	0.052	-35.735	-0.243	-0.313	1.759	4069.375
330	c	280.000	16986.0278800	4067.759	0.045	-36.675	-0.238	-0.311	1.761	4068.971
331	c	270.000	16986.0336800	4067.361	0.039	-37.616	-0.234	-0.309	1.763	4068.582
332	c	260.031	16986.0394000	4067.074	0.033	-38.553	-0.229	-0.306	1.765	4068.304
333	c	260.031	16986.0437800	4067.068	0.029	-38.553	-0.229	-0.306	1.766	4068.300
334	c	250.021	16986.0500900	4066.593	0.022	-39.495	-0.223	-0.304	1.768	4067.834
335	c	240.000	16986.0560300	4066.181	0.016	-40.437	-0.218	-0.301	1.770	4067.432
336	c	240.000	16986.0604900	4066.183	0.012	-40.437	-0.218	-0.301	1.772	4067.435
337	c	230.000	16986.0717900	4065.777	0.001	-41.377	-0.213	-0.299	1.775	4067.040
338	c	219.990	16986.0787100	4065.330	-0.005	-42.319	-0.207	-0.297	1.777	4066.603
339	c	210.000	16986.0865800	4064.872	-0.013	-43.258	-0.201	-0.295	1.780	4066.156
340	c	200.000	16986.0964900	4064.533	-0.021	-44.198	-0.195	-0.292	1.783	4065.828
341	c	190.000	16986.1031300	4064.089	-0.027	-45.139	-0.189	-0.290	1.785	4065.395
343	c	240.021	16986.1135000	4066.173	-0.035	-40.435	-0.218	-0.302	1.788	4067.442
344	c	230.000	16986.1207900	4065.762	-0.041	-41.377	-0.213	-0.299	1.791	4067.041
345	c	220.000	16986.1285200	4065.333	-0.046	-42.318	-0.207	-0.297	1.793	4066.622
346	c	210.000	16986.1344000	4064.841	-0.050	-43.258	-0.201	-0.295	1.795	4066.140

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
347	c	210.000	16986.1391600	4064.852	-0.053	-43.258	-0.201	-0.295	1.796	4066.153
348	c	200.000	16986.1448800	4064.513	-0.056	-44.198	-0.195	-0.292	1.798	4065.824
349	c	190.000	16986.1516700	4064.068	-0.060	-45.139	-0.189	-0.290	1.800	4065.389
351	c	240.000	16986.1623100	4066.144	-0.065	-40.437	-0.218	-0.301	1.804	4067.428
352	c	230.000	16986.1687900	4065.747	-0.068	-41.377	-0.213	-0.299	1.806	4067.041
353	c	220.010	16986.1787100	4065.285	-0.072	-42.317	-0.207	-0.297	1.809	4066.590
354	c	210.020	16986.1849000	4064.815	-0.074	-43.256	-0.201	-0.295	1.811	4066.130
355	c	210.020	16986.1893300	4064.834	-0.075	-43.256	-0.201	-0.295	1.812	4066.150
356	c	199.980	16986.1953800	4064.492	-0.077	-44.200	-0.195	-0.292	1.814	4065.818
357	c	189.990	16986.2016500	4064.047	-0.079	-45.140	-0.189	-0.290	1.816	4065.384
359	c	239.980	16986.2123600	4066.134	-0.080	-40.439	-0.218	-0.301	1.819	4067.434
360	c	230.000	16986.2190600	4065.732	-0.081	-41.377	-0.213	-0.299	1.821	4067.041
361	c	220.000	16986.2254800	4065.296	-0.082	-42.318	-0.207	-0.297	1.823	4066.615
362	c	210.010	16986.2316600	4064.828	-0.082	-43.257	-0.201	-0.295	1.825	4066.158
363	c	210.010	16986.2362100	4064.832	-0.083	-43.257	-0.201	-0.295	1.827	4066.163
364	c	200.020	16986.2429700	4064.488	-0.083	-44.196	-0.195	-0.292	1.829	4065.829
365	c	190.000	16986.2516500	4064.045	-0.083	-45.139	-0.189	-0.290	1.832	4065.398
366	c	190.000	16986.2575100	4064.054	-0.083	-45.139	-0.189	-0.290	1.833	4065.409
367	c	180.000	16986.2665400	4063.625	-0.082	-46.079	-0.182	-0.288	1.836	4064.991
368	c	170.020	16986.2757900	4063.121	-0.081	-47.018	-0.176	-0.285	1.839	4064.499
370	c	160.020	16986.2885100	4062.618	-0.080	-47.958	-0.169	-0.283	1.843	4064.010
373	c	169.970	16986.3057000	4063.094	-0.078	-47.022	-0.176	-0.285	1.849	4064.482
374	c	169.970	16986.3113100	4063.094	-0.078	-47.022	-0.176	-0.285	1.850	4064.483
375	c	160.010	16986.3177700	4062.607	-0.077	-47.959	-0.169	-0.283	1.852	4064.008
376	c	160.010	16986.3249700	4062.613	-0.076	-47.959	-0.169	-0.283	1.855	4064.016
377	c	150.020	16986.3317600	4062.102	-0.076	-48.898	-0.161	-0.281	1.857	4063.517
378	c	139.950	16986.3393000	4061.561	-0.075	-49.845	-0.153	-0.278	1.859	4062.989
379	c	190.000	16986.3518800	4064.022	-0.074	-45.139	-0.189	-0.290	1.863	4065.406

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
380	c	180.000	16986.3590900	4063.590	-0.073	-46.079	-0.182	-0.288	1.865	4064.985
381	c	170.010	16986.3666200	4063.108	-0.073	-47.018	-0.176	-0.285	1.868	4064.515
382	c	170.010	16986.3725100	4063.120	-0.073	-47.018	-0.176	-0.285	1.869	4064.529
384	c	160.010	16986.3835000	4062.589	-0.073	-47.959	-0.169	-0.283	1.873	4064.010
385	c	150.020	16986.3910700	4062.098	-0.073	-48.898	-0.161	-0.281	1.875	4063.532
386	c	140.000	16986.3989000	4061.545	-0.073	-49.840	-0.153	-0.278	1.878	4062.991
387	c	189.940	16986.4115800	4064.009	-0.074	-45.144	-0.189	-0.290	1.882	4065.412
388	c	180.000	16986.4183800	4063.572	-0.075	-46.079	-0.182	-0.288	1.884	4064.986
389	c	170.000	16986.4251700	4063.079	-0.075	-47.019	-0.176	-0.285	1.886	4064.504
390	c	170.020	16986.4351100	4063.095	-0.076	-47.018	-0.176	-0.285	1.889	4064.523
391	c	160.000	16986.4420500	4062.582	-0.077	-47.960	-0.168	-0.283	1.891	4064.022
392	c	150.000	16986.4512200	4062.052	-0.079	-48.900	-0.161	-0.281	1.894	4063.504
393	c	150.000	16986.4574300	4062.044	-0.080	-48.900	-0.161	-0.281	1.896	4063.498
394	c	140.000	16986.4660500	4061.506	-0.081	-49.840	-0.153	-0.278	1.899	4062.973
395	c	189.990	16986.4768800	4063.976	-0.083	-45.140	-0.189	-0.290	1.902	4065.399
396	c	179.990	16986.4840000	4063.551	-0.084	-46.080	-0.182	-0.288	1.904	4064.985
397	c	170.010	16986.4922100	4063.038	-0.085	-47.018	-0.176	-0.285	1.907	4064.484
398	c	170.010	16986.4964100	4063.044	-0.086	-47.018	-0.176	-0.285	1.908	4064.491
399	c	159.990	16986.5025900	4062.558	-0.087	-47.961	-0.168	-0.283	1.910	4064.017
400	c	159.990	16986.5078100	4062.565	-0.087	-47.961	-0.168	-0.283	1.912	4064.025
401	c	150.010	16986.5152100	4062.046	-0.088	-48.899	-0.161	-0.281	1.914	4063.519
402	c	139.990	16986.5264900	4061.497	-0.089	-49.841	-0.153	-0.278	1.918	4062.983
403	c	139.990	16986.5316600	4061.509	-0.089	-49.841	-0.153	-0.278	1.919	4062.997
406	c	139.990	16986.6430900	4061.444	-0.062	-49.841	-0.153	-0.278	1.954	4062.967
410	c	139.990	16986.6744200	4061.471	-0.041	-49.841	-0.153	-0.278	1.964	4063.004
411	c	129.990	16986.6834000	4061.010	-0.033	-50.782	-0.145	-0.276	1.967	4062.556
413	c	119.990	16986.7031300	4060.433	-0.016	-51.722	-0.136	-0.274	1.973	4061.996
415	c	110.000	16986.7157900	4059.978	-0.005	-52.662	-0.127	-0.271	1.977	4061.556

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
416	c	100.000	16986.7327000	4059.466	0.012	-53.602	-0.118	-0.269	1.982	4061.062
417	c	100.000	16986.7378200	4059.473	0.017	-53.602	-0.118	-0.269	1.984	4061.070
418	c	90.000	16986.7451400	4058.920	0.024	-54.542	-0.107	-0.267	1.986	4060.532
420	c	129.990	16986.7651400	4060.980	0.044	-50.782	-0.145	-0.276	1.993	4062.551
421	c	120.000	16986.7755800	4060.393	0.054	-51.721	-0.137	-0.274	1.996	4061.979
422	c	120.000	16986.7797800	4060.401	0.058	-51.721	-0.137	-0.274	1.997	4061.988
423	c	110.000	16986.7867500	4059.959	0.064	-52.662	-0.127	-0.271	1.999	4061.560
424	c	100.010	16986.7940100	4059.451	0.071	-53.601	-0.118	-0.269	2.002	4061.066
425	c	100.010	16986.7985900	4059.450	0.075	-53.601	-0.118	-0.269	2.003	4061.066
426	c	90.000	16986.8050700	4058.895	0.081	-54.542	-0.107	-0.267	2.005	4060.526
428	c	130.000	16986.8257300	4060.973	0.097	-50.781	-0.145	-0.276	2.012	4062.563
430	c	120.000	16986.8466000	4060.390	0.110	-51.721	-0.137	-0.274	2.018	4061.998
431	c	110.000	16986.8539200	4059.918	0.114	-52.662	-0.127	-0.271	2.021	4061.540
433	c	100.000	16986.8607900	4059.424	0.117	-53.602	-0.118	-0.269	2.023	4061.060
434	c	90.000	16986.8666700	4058.865	0.120	-54.542	-0.107	-0.267	2.025	4060.515
436	c	130.000	16986.8810400	4060.931	0.124	-50.781	-0.145	-0.276	2.029	4062.539
437	c	120.000	16986.8854600	4060.410	0.126	-51.721	-0.137	-0.274	2.030	4062.030
438	c	120.000	16986.8886900	4060.366	0.126	-51.721	-0.137	-0.274	2.031	4061.987
439	c	120.000	16986.8924300	4060.363	0.127	-51.721	-0.137	-0.274	2.033	4061.985
440	c	109.979	16986.8991200	4059.931	0.128	-52.663	-0.127	-0.271	2.035	4061.567
441	c	109.979	16986.9034900	4059.921	0.128	-52.663	-0.127	-0.271	2.036	4061.558
442	c	100.000	16986.9092400	4059.408	0.128	-53.602	-0.118	-0.269	2.038	4061.059
443	c	90.000	16986.9151000	4058.872	0.128	-54.542	-0.107	-0.267	2.040	4060.538
444	c	80.000	16986.9325700	4058.355	0.125	-55.483	-0.096	-0.264	2.045	4060.039
445	c	70.000	16986.9385900	4057.804	0.124	-56.423	-0.085	-0.262	2.047	4059.505
446	c	70.000	16986.9427800	4057.813	0.123	-56.423	-0.085	-0.262	2.048	4059.515
447	c	60.000	16986.9513000	4057.222	0.120	-57.363	-0.072	-0.260	2.051	4058.942
448	c	50.000	16986.9568100	4056.675	0.118	-58.304	-0.058	-0.257	2.053	4058.413

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
449	c	50.000	16986.9612900	4056.679	0.115	-58.304	-0.058	-0.257	2.054	4058.418
450	c	40.000	16986.9672000	4056.245	0.113	-59.244	-0.042	-0.255	2.056	4058.004
451	c	90.010	16986.9794400	4058.865	0.106	-54.541	-0.107	-0.267	2.060	4060.551
452	c	90.000	16986.9834000	4058.872	0.103	-54.542	-0.107	-0.267	2.061	4060.559
453	c	80.000	16986.9882500	4058.352	0.100	-55.483	-0.096	-0.264	2.063	4060.054
454	c	80.000	16986.9922800	4058.345	0.097	-55.483	-0.096	-0.264	2.064	4060.048
455	c	70.021	16986.9982200	4057.786	0.093	-56.421	-0.085	-0.262	2.066	4059.505
456	c	70.021	16987.0022400	4057.796	0.090	-56.421	-0.085	-0.262	2.067	4059.517
457	c	60.000	16987.0079600	4057.224	0.086	-57.363	-0.072	-0.260	2.069	4058.962
459	c	50.000	16987.0180900	4056.687	0.078	-58.304	-0.058	-0.257	2.072	4058.444
460	c	40.000	16987.0234600	4056.236	0.073	-59.244	-0.042	-0.255	2.074	4058.013
462	c	90.000	16987.0359600	4058.860	0.063	-54.542	-0.107	-0.267	2.078	4060.563
463	c	90.000	16987.0403100	4058.868	0.059	-54.542	-0.107	-0.267	2.079	4060.573
464	c	80.000	16987.0460300	4058.338	0.054	-55.483	-0.096	-0.264	2.081	4060.058
465	c	69.979	16987.0519200	4057.779	0.048	-56.425	-0.084	-0.262	2.083	4059.515
466	c	69.979	16987.0560600	4057.790	0.044	-56.425	-0.084	-0.262	2.084	4059.527
467	c	60.000	16987.0617000	4057.218	0.039	-57.363	-0.072	-0.260	2.086	4058.972
468	c	50.000	16987.0676800	4056.646	0.034	-58.304	-0.058	-0.257	2.088	4058.419
469	c	50.000	16987.0716100	4056.662	0.030	-58.304	-0.058	-0.257	2.089	4058.436
470	c	40.000	16987.0775800	4056.227	0.025	-59.244	-0.042	-0.255	2.091	4058.021
471	c	90.000	16987.0873300	4058.854	0.016	-54.542	-0.107	-0.267	2.094	4060.574
472	c	80.000	16987.0931600	4058.328	0.010	-55.483	-0.096	-0.264	2.096	4060.063
473	c	70.000	16987.0989000	4057.780	0.005	-56.423	-0.085	-0.262	2.097	4059.531
474	c	70.000	16987.1029800	4057.781	0.002	-56.423	-0.085	-0.262	2.099	4059.533
475	c	60.010	16987.1094500	4057.204	-0.004	-57.362	-0.072	-0.260	2.101	4058.973
476	c	50.000	16987.1154000	4056.643	-0.009	-58.304	-0.058	-0.257	2.103	4058.431
477	c	50.000	16987.1197300	4056.651	-0.013	-58.304	-0.058	-0.257	2.104	4058.440
478	c	40.000	16987.1253900	4056.220	-0.017	-59.244	-0.042	-0.255	2.106	4058.029

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
479	c	40.000	16987.1300400	4056.220	-0.021	-59.244	-0.042	-0.255	2.107	4058.030
480	c	29.979	16987.1389600	4055.670	-0.028	-60.186	-0.025	-0.253	2.110	4057.503
481	c	20.000	16987.1447300	4055.161	-0.032	-61.125	-0.005	-0.250	2.112	4057.017
482	c	20.000	16987.1486600	4055.169	-0.035	-61.125	-0.005	-0.250	2.113	4057.026
483	c	10.000	16987.1594400	4054.505	-0.042	-62.065	0.017	-0.248	2.116	4056.390
484	c	10.000	16987.1840100	4054.513	-0.057	-62.065	0.017	-0.248	2.124	4056.406
485	c	1.125	16987.2100500	4054.114	-0.068	-62.899	0.040	-0.246	2.132	4056.040
486	c	40.021	16987.2213600	4056.211	-0.072	-59.242	-0.042	-0.255	2.136	4058.050
487	c	30.021	16987.2271900	4055.663	-0.074	-60.182	-0.025	-0.253	2.138	4057.523
488	c	19.979	16987.2342100	4055.156	-0.076	-61.127	-0.005	-0.250	2.140	4057.040
489	c	19.979	16987.2398400	4055.154	-0.077	-61.127	-0.005	-0.250	2.142	4057.040
490	c	9.969	16987.2463400	4054.488	-0.078	-62.068	0.017	-0.248	2.144	4056.400
491	c	9.969	16987.2500900	4054.476	-0.079	-62.068	0.017	-0.248	2.145	4056.390
492	c	40.000	16987.2665100	4056.217	-0.081	-59.244	-0.042	-0.255	2.150	4058.070
493	c	29.979	16987.2736300	4055.656	-0.081	-60.186	-0.025	-0.253	2.152	4057.531
494	c	20.000	16987.3060000	4055.164	-0.082	-61.125	-0.005	-0.250	2.162	4057.071
496	c	9.969	16987.3239400	4054.476	-0.081	-62.068	0.017	-0.248	2.168	4056.413
497	c	40.000	16987.3395100	4056.207	-0.080	-59.244	-0.042	-0.255	2.173	4058.083
498	c	30.000	16987.3490900	4055.654	-0.079	-60.184	-0.025	-0.253	2.176	4057.553
499	c	19.990	16987.3566100	4055.153	-0.079	-61.126	-0.005	-0.250	2.178	4057.076
500	c	10.000	16987.3678500	4054.458	-0.078	-62.065	0.017	-0.248	2.182	4056.408
501	c	380.009	16987.6093300	4070.383	-0.080	-27.271	-0.280	-0.334	2.148	4071.917
503	c	359.979	16987.6458100	4069.950	-0.069	-29.154	-0.273	-0.329	2.104	4071.452
2	d	380.000	16988.0599554	4070.409	0.061	-27.272	-0.280	-0.334	2.120	4071.915
3	d	370.000	16988.0652033	4070.197	0.057	-28.212	-0.276	-0.332	2.121	4071.710
4	d	359.969	16988.0702278	4069.943	0.053	-29.155	-0.273	-0.329	2.122	4071.463
5	d	350.000	16988.0757013	4069.666	0.049	-30.093	-0.269	-0.327	2.124	4071.194
6	d	380.000	16988.0841459	4070.397	0.042	-27.272	-0.280	-0.334	2.126	4071.909

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
7	d	370.000	16988.0890226	4070.185	0.038	-28.212	-0.276	-0.332	2.127	4071.704
8	d	360.000	16988.0942443	4069.934	0.033	-29.152	-0.273	-0.329	2.128	4071.460
9	d	350.000	16988.0999012	4069.657	0.029	-30.093	-0.269	-0.327	2.130	4071.191
10	d	380.000	16988.1086612	4070.409	0.021	-27.272	-0.280	-0.334	2.132	4071.927
11	d	370.000	16988.1140463	4070.185	0.017	-28.212	-0.276	-0.332	2.133	4071.710
12	d	360.034	16988.1200971	4069.923	0.012	-29.149	-0.273	-0.329	2.135	4071.456
13	d	350.000	16988.1256595	4069.652	0.007	-30.093	-0.269	-0.327	2.136	4071.193
14	d	380.000	16988.1335145	4070.411	0.001	-27.272	-0.280	-0.334	2.138	4071.935
15	d	370.000	16988.1406965	4070.174	-0.005	-28.212	-0.276	-0.332	2.140	4071.706
16	d	360.000	16988.1460917	4069.916	-0.009	-29.152	-0.273	-0.329	2.141	4071.456
17	d	349.979	16988.1518418	4069.635	-0.014	-30.095	-0.269	-0.327	2.143	4071.182
18	d	1380.000	16988.2586624	4100.040	-0.073	66.773	-0.408	-0.540	2.170	4101.261
19	d	1369.960	16988.2688210	4099.806	-0.076	65.829	-0.408	-0.539	2.173	4101.032
20	d	1360.020	16988.2752479	4099.573	-0.077	64.894	-0.408	-0.537	2.174	4100.802
21	d	1349.980	16988.2810380	4099.342	-0.079	63.950	-0.409	-0.535	2.176	4100.574
22	d	1380.010	16988.2899120	4100.030	-0.080	66.774	-0.408	-0.540	2.178	4101.259
23	d	1370.010	16988.2960122	4099.788	-0.081	65.834	-0.408	-0.539	2.180	4101.021
24	d	1359.990	16988.3019346	4099.562	-0.082	64.891	-0.408	-0.537	2.181	4100.798
25	d	1349.990	16988.3085611	4099.323	-0.082	63.951	-0.409	-0.535	2.183	4100.562
26	d	1379.990	16988.3171083	4100.005	-0.083	66.772	-0.408	-0.540	2.185	4101.241
27	d	1370.010	16988.3234897	4099.777	-0.083	65.834	-0.408	-0.539	2.186	4101.016
28	d	1360.000	16988.3293263	4099.548	-0.083	64.892	-0.408	-0.537	2.188	4100.791
29	d	1350.000	16988.3365247	4099.317	-0.084	63.952	-0.409	-0.535	2.190	4100.563
30	d	1380.000	16988.3441726	4100.005	-0.083	66.773	-0.408	-0.540	2.192	4101.248
31	d	1370.000	16988.3507096	4099.773	-0.083	65.833	-0.408	-0.539	2.193	4101.019
32	d	1360.000	16988.3576078	4099.538	-0.083	64.892	-0.408	-0.537	2.195	4100.788
33	d	1349.979	16988.3636510	4099.305	-0.083	63.950	-0.409	-0.535	2.197	4100.558
34	d	1330.021	16988.3945922	4098.763	-0.080	62.073	-0.409	-0.532	2.205	4100.027

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
35	d	1320.010	16988.4012474	4098.402	-0.080	61.131	-0.409	-0.530	2.206	4099.670
36	d	1309.990	16988.4128098	4098.165	-0.079	60.189	-0.409	-0.528	2.209	4099.437
37	d	1299.938	16988.4182605	4097.940	-0.078	59.243	-0.409	-0.526	2.211	4099.216
38	d	1330.000	16988.4267005	4098.750	-0.077	62.071	-0.409	-0.532	2.213	4100.022
39	d	1320.000	16988.4332479	4098.393	-0.077	61.130	-0.409	-0.530	2.214	4099.669
40	d	1310.000	16988.4388021	4098.161	-0.076	60.190	-0.409	-0.528	2.216	4099.440
41	d	1299.990	16988.4451941	4097.940	-0.076	59.248	-0.409	-0.526	2.217	4099.222
42	d	1330.000	16988.4537091	4098.742	-0.075	62.071	-0.409	-0.532	2.220	4100.021
43	d	1320.000	16988.4601231	4098.380	-0.075	61.130	-0.409	-0.530	2.221	4099.663
44	d	1310.000	16988.4673663	4098.152	-0.074	60.190	-0.409	-0.528	2.223	4099.438
45	d	1299.990	16988.4741340	4097.926	-0.074	59.248	-0.409	-0.526	2.225	4099.216
46	d	1330.000	16988.4813313	4098.738	-0.074	62.071	-0.409	-0.532	2.227	4100.024
47	d	1320.010	16988.4876201	4098.374	-0.074	61.131	-0.409	-0.530	2.228	4099.664
48	d	1310.000	16988.4931170	4098.138	-0.074	60.190	-0.409	-0.528	2.230	4099.431
49	d	1300.000	16988.4987706	4097.905	-0.073	59.249	-0.409	-0.526	2.231	4099.201
50	d	920.000	16988.5632330	4086.513	-0.073	23.511	-0.393	-0.453	2.247	4087.915
52	d	910.000	16988.5712927	4086.231	-0.073	22.571	-0.392	-0.450	2.249	4087.638
53	d	900.030	16988.5787566	4085.837	-0.073	21.633	-0.391	-0.448	2.251	4087.249
54	d	890.000	16988.5843715	4085.318	-0.073	20.690	-0.390	-0.446	2.253	4086.734
55	d	919.990	16988.5926076	4086.523	-0.072	23.510	-0.393	-0.452	2.255	4087.932
56	d	910.000	16988.5987706	4086.223	-0.072	22.571	-0.392	-0.450	2.256	4087.637
57	d	899.990	16988.6045273	4085.823	-0.072	21.629	-0.391	-0.448	2.258	4087.241
58	d	889.980	16988.6106378	4085.300	-0.071	20.688	-0.390	-0.446	2.259	4086.723
59	d	919.990	16988.6216227	4086.505	-0.070	23.510	-0.393	-0.452	2.262	4087.922
60	d	910.000	16988.6294233	4086.221	-0.069	22.571	-0.392	-0.450	2.264	4087.643
61	d	900.000	16988.6359592	4085.824	-0.068	21.630	-0.391	-0.448	2.266	4087.250
62	d	890.010	16988.6419551	4085.290	-0.067	20.691	-0.390	-0.446	2.267	4086.721
63	d	920.010	16988.6503530	4086.504	-0.066	23.512	-0.393	-0.453	2.269	4087.928

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
64	d	909.990	16988.6567687	4086.207	-0.064	22.570	-0.392	-0.450	2.271	4087.636
65	d	900.000	16988.6652402	4085.762	-0.062	21.630	-0.391	-0.448	2.273	4087.196
66	d	900.000	16988.6718175	4085.797	-0.060	21.630	-0.391	-0.448	2.275	4087.233
67	d	889.979	16988.6807228	4085.278	-0.057	20.688	-0.390	-0.446	2.277	4086.719
68	d	920.000	16988.7200993	4086.476	-0.041	23.511	-0.393	-0.453	2.287	4087.918
69	d	910.000	16988.7263645	4086.183	-0.038	22.571	-0.392	-0.450	2.289	4087.629
70	d	900.000	16988.7329235	4085.786	-0.035	21.630	-0.391	-0.448	2.290	4087.237
71	d	890.000	16988.7410181	4085.250	-0.030	20.690	-0.390	-0.446	2.292	4086.706
72	d	890.000	16988.7917243	4085.283	0.002	20.690	-0.390	-0.446	2.305	4086.752
73	d	880.000	16988.8009782	4084.785	0.009	19.749	-0.389	-0.444	2.308	4086.260
74	d	870.000	16988.8075908	4084.314	0.013	18.809	-0.388	-0.442	2.309	4085.793
75	d	889.979	16988.8196193	4085.292	0.021	20.688	-0.390	-0.446	2.312	4086.768
76	d	879.979	16988.8253062	4084.783	0.025	19.747	-0.389	-0.444	2.314	4086.264
77	d	870.000	16988.8310251	4084.291	0.029	18.809	-0.388	-0.442	2.315	4085.776
78	d	890.000	16988.8375287	4085.282	0.034	20.690	-0.390	-0.446	2.317	4086.763
79	d	880.000	16988.8426177	4084.762	0.037	19.749	-0.389	-0.444	2.318	4086.247
80	d	870.000	16988.8484280	4084.297	0.041	18.809	-0.388	-0.442	2.320	4085.787
81	d	890.000	16988.8552387	4085.276	0.046	20.690	-0.390	-0.446	2.321	4086.761
82	d	880.000	16988.8605977	4084.762	0.049	19.749	-0.389	-0.444	2.323	4086.252
83	d	870.000	16988.8660012	4084.290	0.052	18.809	-0.388	-0.442	2.324	4085.784
84	d	870.000	16988.8924398	4084.333	0.067	18.809	-0.388	-0.442	2.331	4085.834
86	d	870.000	16988.9765948	4084.303	0.090	18.809	-0.388	-0.442	2.352	4085.825
87	d	860.000	16988.9858861	4083.831	0.090	17.868	-0.387	-0.440	2.355	4085.359
88	d	850.000	16988.9916010	4083.379	0.089	16.928	-0.386	-0.438	2.356	4084.912
89	d	870.000	16988.9997090	4084.311	0.088	18.809	-0.388	-0.442	2.358	4085.839
90	d	859.948	16989.0049450	4083.834	0.088	17.863	-0.387	-0.440	2.359	4085.367
91	d	849.979	16989.0100701	4083.393	0.086	16.926	-0.386	-0.438	2.361	4084.930
92	d	870.000	16989.0172199	4084.314	0.085	18.809	-0.388	-0.442	2.363	4085.847

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
93	d	860.000	16989.0230463	4083.845	0.083	17.868	-0.387	-0.440	2.364	4085.382
94	d	850.000	16989.0284605	4083.394	0.081	16.928	-0.386	-0.438	2.365	4084.936
95	d	870.000	16989.0383520	4084.308	0.078	18.809	-0.388	-0.442	2.368	4085.846
96	d	860.000	16989.0432923	4083.839	0.076	17.868	-0.387	-0.440	2.369	4085.381
97	d	850.000	16989.0495179	4083.390	0.073	16.928	-0.386	-0.438	2.371	4084.937
98	d	850.000	16989.0626391	4083.418	0.067	16.928	-0.386	-0.438	2.374	4084.969
99	d	840.000	16989.0684414	4082.970	0.063	15.987	-0.384	-0.436	2.376	4084.525
100	d	850.000	16989.0761231	4083.418	0.059	16.928	-0.386	-0.438	2.377	4084.972
101	d	840.000	16989.0819408	4082.966	0.056	15.987	-0.384	-0.436	2.379	4084.525
102	d	849.990	16989.0890261	4083.416	0.051	16.927	-0.386	-0.438	2.381	4084.973
103	d	840.000	16989.0942314	4082.965	0.048	15.987	-0.384	-0.436	2.382	4084.527
104	d	850.021	16989.1018999	4083.413	0.043	16.930	-0.386	-0.438	2.384	4084.973
105	d	840.000	16989.1097848	4082.960	0.037	15.987	-0.384	-0.436	2.386	4084.526
106	d	640.000	16989.1622615	4077.398	-0.002	-2.821	-0.353	-0.392	2.399	4079.052
107	d	630.000	16989.1705277	4077.194	-0.008	-3.762	-0.351	-0.390	2.401	4078.855
108	d	620.010	16989.1761909	4076.981	-0.012	-4.701	-0.348	-0.388	2.403	4078.647
109	d	610.000	16989.1820472	4076.772	-0.016	-5.643	-0.346	-0.386	2.404	4078.444
110	d	600.000	16989.1934762	4076.550	-0.024	-6.583	-0.344	-0.384	2.407	4078.229
111	d	589.980	16989.1990348	4076.329	-0.028	-7.525	-0.342	-0.381	2.409	4078.014
112	d	640.000	16989.2064514	4077.404	-0.033	-2.821	-0.353	-0.392	2.411	4079.069
113	d	630.000	16989.2115133	4077.186	-0.036	-3.762	-0.351	-0.390	2.412	4078.857
114	d	620.000	16989.2169497	4076.978	-0.040	-4.702	-0.348	-0.388	2.413	4078.655
115	d	609.990	16989.2228475	4076.758	-0.044	-5.643	-0.346	-0.386	2.415	4078.440
116	d	600.000	16989.2289007	4076.543	-0.047	-6.583	-0.344	-0.384	2.416	4078.231
117	d	590.000	16989.2349662	4076.319	-0.051	-7.523	-0.342	-0.381	2.418	4078.014
118	d	639.990	16989.2433708	4077.390	-0.055	-2.822	-0.353	-0.392	2.420	4079.065
119	d	630.010	16989.2558926	4077.181	-0.062	-3.761	-0.351	-0.390	2.423	4078.863
120	d	619.980	16989.2627224	4076.970	-0.065	-4.704	-0.348	-0.388	2.425	4078.658

Table 5: C4996 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
121	d	610.000	16989.2684793	4076.740	-0.067	-5.643	-0.346	-0.386	2.426	4078.434
122	d	599.990	16989.2754859	4076.534	-0.070	-6.584	-0.344	-0.384	2.428	4078.234
123	d	590.000	16989.2809904	4076.308	-0.072	-7.523	-0.342	-0.381	2.429	4078.014
124	d	640.010	16989.2920249	4077.387	-0.076	-2.820	-0.353	-0.393	2.432	4079.074
125	d	630.020	16989.2976292	4077.168	-0.078	-3.760	-0.351	-0.390	2.434	4078.861
126	d	620.020	16989.3048163	4076.956	-0.080	-4.700	-0.348	-0.388	2.435	4078.655
127	d	609.990	16989.3101685	4076.742	-0.081	-5.643	-0.346	-0.386	2.437	4078.447
128	d	600.000	16989.3156693	4076.534	-0.082	-6.583	-0.344	-0.384	2.438	4078.244
129	d	590.000	16989.3221813	4076.302	-0.083	-7.523	-0.342	-0.381	2.440	4078.019

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Table 6: Well C4997 Processed gravity

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
1	a	1400.000	16991.8125420	4086.975	-0.021	66.961	-0.217	-0.630	0.000	4086.128
2	a	1390.020	16991.8223740	4086.727	-0.023	66.023	-0.217	-0.628	0.002	4085.885
3	a	1399.979	16991.8290670	4086.969	-0.025	66.959	-0.217	-0.630	0.004	4086.125
4	a	1390.000	16991.8336250	4086.709	-0.026	66.021	-0.217	-0.628	0.005	4085.869
5	a	1380.000	16991.8382110	4086.430	-0.026	65.080	-0.216	-0.626	0.006	4085.594
6	a	1400.000	16991.8438980	4086.958	-0.028	66.961	-0.217	-0.630	0.007	4086.118
7	a	1390.000	16991.8485900	4086.694	-0.028	66.021	-0.217	-0.628	0.008	4085.858
8	a	1380.000	16991.8531080	4086.421	-0.029	65.080	-0.216	-0.626	0.009	4085.588
9	a	1370.000	16991.8576280	4086.100	-0.030	64.140	-0.216	-0.623	0.010	4085.271
10	a	1400.000	16991.8630340	4086.957	-0.030	66.961	-0.217	-0.630	0.011	4086.121
11	a	1390.000	16991.8678560	4086.692	-0.031	66.021	-0.217	-0.628	0.013	4085.860
12	a	1380.000	16991.8723910	4086.405	-0.031	65.080	-0.216	-0.626	0.014	4085.577
13	a	1370.000	16991.8769800	4086.090	-0.032	64.140	-0.216	-0.623	0.015	4085.265
14	a	1360.000	16991.8813120	4085.855	-0.032	63.199	-0.216	-0.621	0.016	4085.034
15	a	1380.000	16991.8878220	4086.414	-0.032	65.080	-0.216	-0.626	0.017	4085.589
16	a	1370.000	16991.8926220	4086.091	-0.032	64.140	-0.216	-0.623	0.018	4085.270
17	a	1360.000	16991.8975650	4085.847	-0.032	63.199	-0.216	-0.621	0.019	4085.030
18	a	1360.000	16991.9034810	4085.885	-0.032	63.199	-0.216	-0.621	0.021	4085.069
19	a	1350.000	16991.9087300	4085.685	-0.032	62.259	-0.215	-0.619	0.022	4084.873
20	a	1380.000	16991.9156670	4086.408	-0.032	65.080	-0.216	-0.626	0.023	4085.589
21	a	1370.000	16991.9200360	4086.093	-0.031	64.140	-0.216	-0.623	0.024	4085.278
22	a	1359.990	16991.9257790	4085.852	-0.031	63.198	-0.216	-0.621	0.026	4085.041
23	a	1359.990	16991.9295680	4085.878	-0.030	63.198	-0.216	-0.621	0.026	4085.068
24	a	1350.000	16991.9341020	4085.666	-0.030	62.259	-0.215	-0.619	0.028	4084.860
25	a	1340.000	16991.9389450	4085.477	-0.029	61.318	-0.215	-0.616	0.029	4084.674
26	a	1360.000	16991.9463380	4085.876	-0.028	63.199	-0.216	-0.621	0.030	4085.070
27	a	1349.969	16991.9510590	4085.670	-0.027	62.256	-0.215	-0.619	0.031	4084.867

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
28	a	1340.021	16991.9562420	4085.470	-0.026	61.320	-0.215	-0.616	0.033	4084.671
29	a	1330.000	16991.9611420	4085.274	-0.025	60.378	-0.214	-0.614	0.034	4084.479
30	a	1350.021	16991.9690220	4085.678	-0.023	62.261	-0.215	-0.619	0.035	4084.880
31	a	1340.000	16991.9737220	4085.476	-0.022	61.318	-0.215	-0.616	0.036	4084.681
32	a	1330.000	16991.9782300	4085.244	-0.021	60.378	-0.214	-0.614	0.038	4084.453
33	a	1320.000	16991.9828920	4085.062	-0.020	59.437	-0.214	-0.612	0.039	4084.275
34	a	1340.021	16991.9900560	4085.467	-0.018	61.320	-0.215	-0.616	0.040	4084.676
35	a	1330.000	16991.9946190	4085.258	-0.017	60.378	-0.214	-0.614	0.041	4084.471
36	a	1320.021	16991.9993880	4085.058	-0.015	59.439	-0.214	-0.612	0.042	4084.275
37	a	1310.000	16992.0039620	4084.847	-0.014	58.497	-0.214	-0.609	0.043	4084.067
38	a	1329.948	16992.0113750	4085.246	-0.012	60.373	-0.214	-0.614	0.045	4084.463
39	a	1320.000	16992.0156690	4085.048	-0.011	59.437	-0.214	-0.612	0.046	4084.268
40	a	1310.000	16992.0204310	4084.835	-0.009	58.497	-0.214	-0.609	0.047	4084.059
41	a	1300.000	16992.0259670	4084.641	-0.008	57.556	-0.213	-0.607	0.048	4083.869
42	a	1320.000	16992.0328970	4085.053	-0.006	59.437	-0.214	-0.612	0.050	4084.277
43	a	1310.000	16992.0373240	4084.844	-0.005	58.497	-0.214	-0.609	0.051	4084.072
44	a	1299.979	16992.0421940	4084.635	-0.004	57.554	-0.213	-0.607	0.052	4083.867
45	a	1299.979	16992.0468260	4084.674	-0.003	57.554	-0.213	-0.607	0.053	4083.907
46	a	1290.000	16992.0516970	4084.473	-0.001	56.616	-0.213	-0.604	0.054	4083.710
48	a	1310.000	16992.0606160	4084.839	0.001	58.497	-0.214	-0.609	0.056	4084.072
49	a	1300.010	16992.0653580	4084.629	0.002	57.557	-0.213	-0.607	0.057	4083.866
50	a	1300.010	16992.0693120	4084.673	0.003	57.557	-0.213	-0.607	0.058	4083.911
51	a	1290.000	16992.0738610	4084.470	0.003	56.616	-0.213	-0.604	0.059	4083.712
52	a	1280.021	16992.0785060	4084.256	0.004	55.677	-0.212	-0.602	0.060	4083.502
53	a	1299.979	16992.0864070	4084.626	0.005	57.554	-0.213	-0.607	0.062	4083.868
54	a	1299.979	16992.0902620	4084.662	0.006	57.554	-0.213	-0.607	0.063	4083.905
55	a	1290.000	16992.0948950	4084.462	0.006	56.616	-0.213	-0.604	0.064	4083.709
56	a	1280.021	16992.0995650	4084.252	0.007	55.677	-0.212	-0.602	0.065	4083.503

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
57	a	1270.021	16992.1052420	4084.035	0.007	54.737	-0.212	-0.600	0.066	4083.290
58	a	1290.000	16992.1143240	4084.459	0.007	56.616	-0.213	-0.604	0.068	4083.710
59	a	1280.010	16992.1208640	4084.249	0.007	55.676	-0.212	-0.602	0.070	4083.504
60	a	1270.000	16992.1265940	4084.022	0.007	54.735	-0.212	-0.600	0.071	4083.281
61	a	1260.168	16992.1313700	4083.798	0.007	53.810	-0.212	-0.597	0.072	4083.061
62	a	1280.000	16992.1413220	4084.235	0.006	55.675	-0.212	-0.602	0.074	4083.495
63	a	1270.000	16992.1459890	4084.019	0.005	54.735	-0.212	-0.600	0.075	4083.283
64	a	1260.000	16992.1508970	4083.792	0.005	53.794	-0.212	-0.597	0.077	4083.060
65	a	1249.980	16992.1572530	4083.551	0.004	52.852	-0.211	-0.595	0.078	4082.823
66	a	1249.980	16992.1627680	4083.585	0.002	52.852	-0.211	-0.595	0.079	4082.858
67	a	1270.000	16992.1709700	4084.004	0.000	54.735	-0.212	-0.600	0.081	4083.274
68	a	1260.000	16992.1762080	4083.775	-0.001	53.794	-0.212	-0.597	0.082	4083.049
69	a	1250.020	16992.1818900	4083.531	-0.003	52.856	-0.211	-0.595	0.084	4082.809
70	a	1250.020	16992.1859260	4083.560	-0.004	52.856	-0.211	-0.595	0.085	4082.839
71	a	1240.000	16992.1912910	4083.319	-0.006	51.913	-0.211	-0.592	0.086	4082.602
73	a	1260.010	16992.2017930	4083.771	-0.010	53.795	-0.212	-0.597	0.088	4083.050
74	a	1250.000	16992.2072390	4083.540	-0.012	52.854	-0.211	-0.595	0.089	4082.824
75	a	1250.000	16992.2120380	4083.575	-0.015	52.854	-0.211	-0.595	0.090	4082.860
76	a	1239.980	16992.2180800	4083.330	-0.017	51.911	-0.211	-0.592	0.092	4082.619
77	a	1230.000	16992.2231640	4083.074	-0.020	50.973	-0.210	-0.590	0.093	4082.367
78	a	1250.000	16992.2316910	4083.531	-0.024	52.854	-0.211	-0.595	0.095	4082.820
79	a	1250.000	16992.2356980	4083.567	-0.026	52.854	-0.211	-0.595	0.096	4082.857
80	a	1240.010	16992.2410680	4083.316	-0.029	51.914	-0.211	-0.592	0.097	4082.610
81	a	1229.990	16992.2464730	4083.070	-0.032	50.972	-0.210	-0.590	0.098	4082.368
82	a	1219.990	16992.2514310	4082.795	-0.034	50.031	-0.210	-0.587	0.099	4082.097
83	a	1240.000	16992.2605700	4083.313	-0.040	51.913	-0.211	-0.592	0.101	4082.612
84	a	1230.000	16992.2662290	4083.054	-0.043	50.973	-0.210	-0.590	0.103	4082.357
85	a	1220.000	16992.2721610	4082.788	-0.046	50.032	-0.210	-0.587	0.104	4082.095

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
86	a	1209.990	16992.2780070	4082.515	-0.049	49.091	-0.209	-0.585	0.105	4081.826
87	a	1230.000	16992.2858760	4083.049	-0.054	50.973	-0.210	-0.590	0.107	4082.356
88	a	1220.010	16992.2912060	4082.778	-0.057	50.033	-0.210	-0.587	0.108	4082.089
89	a	1209.990	16992.2966190	4082.504	-0.060	49.091	-0.209	-0.585	0.110	4081.820
90	a	1209.990	16992.3021740	4082.533	-0.063	49.091	-0.209	-0.585	0.111	4081.850
91	a	1200.000	16992.3079400	4082.085	-0.066	48.151	-0.209	-0.582	0.112	4081.406
92	a	1220.000	16992.3202700	4082.760	-0.072	50.032	-0.210	-0.587	0.115	4082.078
93	a	1209.990	16992.3254760	4082.493	-0.074	49.091	-0.209	-0.585	0.116	4081.815
94	a	1209.990	16992.3295630	4082.523	-0.076	49.091	-0.209	-0.585	0.117	4081.846
95	a	1199.990	16992.3367940	4082.077	-0.080	48.150	-0.209	-0.582	0.119	4081.405
96	a	1190.020	16992.3434120	4081.571	-0.082	47.213	-0.208	-0.580	0.120	4080.903
97	a	1209.990	16992.3537190	4082.493	-0.086	49.091	-0.209	-0.585	0.122	4081.822
98	a	1209.990	16992.3579540	4082.520	-0.087	49.091	-0.209	-0.585	0.123	4081.849
99	a	1200.000	16992.3634980	4082.075	-0.089	48.151	-0.209	-0.582	0.125	4081.409
100	a	1190.010	16992.3688520	4081.565	-0.090	47.212	-0.208	-0.580	0.126	4080.903
101	a	1190.010	16992.3737330	4081.579	-0.091	47.212	-0.208	-0.580	0.127	4080.918
102	a	1180.020	16992.3793560	4081.123	-0.092	46.272	-0.207	-0.577	0.128	4080.466
105	a	1200.000	16992.3987870	4082.033	-0.095	48.151	-0.209	-0.582	0.133	4081.375
106	a	1190.000	16992.4056050	4081.558	-0.095	47.211	-0.208	-0.580	0.134	4080.904
107	a	1190.000	16992.4104790	4081.581	-0.094	47.211	-0.208	-0.580	0.135	4080.928
108	a	1179.990	16992.4177310	4081.129	-0.094	46.269	-0.207	-0.577	0.137	4080.481
109	a	1169.985	16992.4261560	4080.673	-0.093	45.328	-0.207	-0.575	0.139	4080.030
110	a	1199.985	16992.4341380	4082.064	-0.091	48.150	-0.209	-0.582	0.141	4081.414
111	a	1189.990	16992.4395160	4081.557	-0.090	47.210	-0.208	-0.580	0.142	4080.911
112	a	1189.990	16992.4433200	4081.566	-0.089	47.210	-0.208	-0.580	0.143	4080.921
113	a	1179.975	16992.4504290	4081.087	-0.086	46.268	-0.207	-0.577	0.144	4080.446
114	a	1170.000	16992.4575030	4080.672	-0.084	45.330	-0.207	-0.575	0.146	4080.036
115	a	1170.000	16992.4630890	4080.671	-0.082	45.330	-0.207	-0.575	0.147	4080.036

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
116	a	1159.995	16992.4693880	4080.219	-0.079	44.389	-0.206	-0.572	0.149	4079.589
117	a	1179.979	16992.4809460	4081.081	-0.073	46.268	-0.207	-0.577	0.151	4080.447
119	a	1170.000	16992.4931210	4080.661	-0.066	45.330	-0.207	-0.575	0.154	4080.033
120	a	1159.979	16992.5006320	4080.246	-0.061	44.387	-0.206	-0.572	0.156	4079.623
121	a	1149.979	16992.5086490	4079.819	-0.056	43.447	-0.206	-0.570	0.158	4079.201
122	a	1149.979	16992.5163530	4079.838	-0.051	43.447	-0.206	-0.570	0.159	4079.222
123	a	1180.000	16992.5262080	4081.093	-0.044	46.270	-0.207	-0.577	0.162	4080.470
124	a	1170.005	16992.5321660	4080.648	-0.040	45.330	-0.207	-0.575	0.163	4080.029
125	a	1170.005	16992.5366760	4080.638	-0.036	45.330	-0.207	-0.575	0.164	4080.020
126	a	1160.000	16992.5431300	4080.215	-0.032	44.389	-0.206	-0.572	0.165	4079.602
127	a	1150.000	16992.5503320	4079.824	-0.026	43.449	-0.206	-0.570	0.167	4079.215
128	a	1150.000	16992.5543050	4079.842	-0.023	43.449	-0.206	-0.570	0.168	4079.234
129	a	1140.000	16992.5624720	4079.422	-0.017	42.508	-0.205	-0.567	0.170	4078.819
130	a	1170.000	16992.5713760	4080.649	-0.011	45.330	-0.207	-0.575	0.172	4080.039
131	a	1160.010	16992.5774340	4080.240	-0.006	44.390	-0.206	-0.572	0.173	4079.634
132	a	1150.000	16992.5842200	4079.825	-0.002	43.449	-0.206	-0.570	0.175	4079.224
133	a	1150.000	16992.5887180	4079.835	0.002	43.449	-0.206	-0.570	0.176	4079.235
134	a	1140.000	16992.5959700	4079.438	0.006	42.508	-0.205	-0.567	0.177	4078.843
135	a	1129.969	16992.6054910	4079.017	0.013	41.565	-0.205	-0.565	0.179	4078.427
136	a	1129.969	16992.6119090	4079.020	0.017	41.565	-0.205	-0.565	0.181	4078.432
137	a	1149.948	16992.6262810	4079.835	0.025	43.444	-0.206	-0.570	0.184	4079.244
138	a	1139.990	16992.6330170	4079.432	0.028	42.507	-0.205	-0.567	0.186	4078.845
139	a	1130.000	16992.6402440	4078.933	0.031	41.568	-0.205	-0.565	0.187	4078.351
140	a	1130.000	16992.6461230	4078.964	0.034	41.568	-0.205	-0.565	0.189	4078.383
141	a	1119.979	16992.6560520	4078.595	0.037	40.625	-0.204	-0.562	0.191	4078.020
142	a	1140.000	16992.6748630	4079.418	0.042	42.508	-0.205	-0.567	0.195	4078.841
143	a	1129.990	16992.6819530	4078.954	0.043	41.567	-0.205	-0.565	0.197	4078.382
144	a	1129.990	16992.6864650	4078.957	0.043	41.567	-0.205	-0.565	0.198	4078.386

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
145	a	1119.979	16992.6934310	4078.540	0.044	40.625	-0.204	-0.562	0.199	4077.973
146	a	1120.063	16992.7206700	4078.568	0.042	40.633	-0.204	-0.562	0.206	4078.007
147	a	1109.979	16992.7295050	4078.103	0.041	39.685	-0.203	-0.560	0.208	4077.548
148	a	1129.979	16992.7405790	4078.990	0.038	41.566	-0.205	-0.565	0.210	4078.431
149	a	1120.000	16992.7507450	4078.567	0.035	40.627	-0.204	-0.562	0.212	4078.013
150	a	1109.958	16992.7662710	4078.116	0.029	39.683	-0.203	-0.560	0.216	4077.569
151	a	1100.000	16992.7739500	4077.855	0.025	38.747	-0.203	-0.557	0.218	4077.313
152	a	1119.969	16992.7816540	4078.561	0.021	40.625	-0.204	-0.562	0.219	4078.014
153	a	1110.000	16992.7861730	4078.122	0.019	39.687	-0.203	-0.560	0.220	4077.579
154	a	1100.000	16992.7903330	4077.856	0.017	38.747	-0.203	-0.557	0.221	4077.318
155	a	1100.000	16992.7948130	4077.881	0.015	38.747	-0.203	-0.557	0.222	4077.344
156	a	1090.000	16992.8002010	4077.626	0.012	37.806	-0.202	-0.555	0.224	4077.093
157	a	1110.000	16992.8089740	4078.120	0.007	39.687	-0.203	-0.560	0.226	4077.583
158	a	1100.000	16992.8132870	4077.854	0.005	38.747	-0.203	-0.557	0.227	4077.321
159	a	1100.000	16992.8180380	4077.880	0.002	38.747	-0.203	-0.557	0.228	4077.348
160	a	1090.000	16992.8225610	4077.628	-0.000	37.806	-0.202	-0.555	0.229	4077.100
161	a	1080.000	16992.8272140	4077.380	-0.003	36.866	-0.201	-0.552	0.230	4076.856
163	a	1089.979	16992.8414850	4077.627	-0.011	37.804	-0.202	-0.554	0.233	4077.103
165	a	1070.000	16992.8534680	4077.104	-0.018	35.925	-0.201	-0.549	0.236	4076.590
166	a	1090.000	16992.8627500	4077.641	-0.022	37.806	-0.202	-0.555	0.238	4077.122
167	a	1080.000	16992.8678830	4077.381	-0.026	36.866	-0.201	-0.552	0.239	4076.867
168	a	1070.000	16992.8739870	4077.110	-0.029	35.925	-0.201	-0.549	0.240	4076.600
169	a	1060.000	16992.8793090	4076.801	-0.031	34.985	-0.200	-0.547	0.241	4076.296
170	a	1080.000	16992.8870150	4077.368	-0.034	36.866	-0.201	-0.552	0.243	4076.858
171	a	1070.000	16992.8913460	4077.107	-0.036	35.925	-0.201	-0.549	0.244	4076.601
172	a	1060.000	16992.8958920	4076.817	-0.038	34.985	-0.200	-0.547	0.245	4076.316
173	a	1060.000	16992.9003260	4076.849	-0.039	34.985	-0.200	-0.547	0.246	4076.349
174	a	1050.021	16992.9046370	4076.593	-0.041	34.046	-0.199	-0.544	0.247	4076.097

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
175	a	1070.000	16992.9145940	4077.107	-0.044	35.925	-0.201	-0.549	0.249	4076.607
176	a	1060.000	16992.9189640	4076.845	-0.045	34.985	-0.200	-0.547	0.250	4076.349
177	a	1060.000	16992.9229440	4076.863	-0.047	34.985	-0.200	-0.547	0.251	4076.368
178	a	1050.000	16992.9275200	4076.605	-0.048	34.044	-0.199	-0.544	0.252	4076.114
179	a	1040.010	16992.9328650	4076.339	-0.049	33.105	-0.198	-0.541	0.254	4075.853
181	a	1060.000	16992.9450390	4076.833	-0.051	34.985	-0.200	-0.547	0.256	4076.343
182	a	1050.000	16992.9494510	4076.599	-0.052	34.044	-0.199	-0.544	0.257	4076.113
183	a	1040.000	16992.9541390	4076.333	-0.052	33.104	-0.198	-0.541	0.258	4075.852
184	a	1030.000	16992.9595750	4076.057	-0.053	32.163	-0.198	-0.539	0.260	4075.580
186	a	1040.000	16992.9721970	4076.332	-0.053	33.104	-0.198	-0.541	0.262	4075.855
187	a	1030.000	16992.9773410	4076.054	-0.053	32.163	-0.198	-0.539	0.264	4075.581
189	a	1040.000	16992.9928270	4076.330	-0.052	33.104	-0.198	-0.541	0.267	4075.857
190	a	1030.000	16992.9983670	4076.053	-0.051	32.163	-0.198	-0.539	0.268	4075.585
191	a	1020.000	16993.0027580	4075.729	-0.051	31.223	-0.197	-0.536	0.269	4075.265
192	a	1020.000	16993.0073700	4075.755	-0.050	31.223	-0.197	-0.536	0.270	4075.292
193	a	1010.000	16993.0121650	4075.380	-0.049	30.282	-0.196	-0.534	0.272	4074.922
194	a	1010.000	16993.0418180	4075.360	-0.043	30.282	-0.196	-0.534	0.278	4074.909
195	a	1010.000	16993.0453980	4075.359	-0.042	30.282	-0.196	-0.534	0.279	4074.908
197	a	1020.000	16993.0619640	4075.716	-0.038	31.223	-0.197	-0.536	0.283	4075.266
198	a	1020.000	16993.0660380	4075.739	-0.037	31.223	-0.197	-0.536	0.284	4075.290
199	a	1010.000	16993.0703730	4075.364	-0.035	30.282	-0.196	-0.534	0.285	4074.919
200	a	1000.021	16993.0754850	4075.050	-0.034	29.344	-0.195	-0.531	0.286	4074.610
202	a	1010.000	16993.0887490	4075.372	-0.030	30.282	-0.196	-0.534	0.289	4074.931
203	a	1000.000	16993.0944580	4075.059	-0.029	29.342	-0.195	-0.531	0.290	4074.623
206	a	1000.000	16993.1136430	4075.052	-0.024	29.342	-0.195	-0.531	0.294	4074.620
207	a	990.000	16993.1183490	4074.795	-0.023	28.401	-0.195	-0.528	0.296	4074.368
208	a	990.000	16993.1244610	4074.809	-0.022	28.401	-0.195	-0.528	0.297	4074.383
209	a	980.010	16993.1287080	4074.551	-0.022	27.462	-0.194	-0.526	0.298	4074.130

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
211	a	990.000	16993.1412910	4074.783	-0.020	28.401	-0.195	-0.528	0.301	4074.361
212	a	990.000	16993.1461270	4074.800	-0.019	28.401	-0.195	-0.528	0.302	4074.379
213	a	979.990	16993.1506980	4074.545	-0.019	27.460	-0.194	-0.525	0.303	4074.129
214	a	970.020	16993.1560460	4074.282	-0.019	26.522	-0.193	-0.523	0.304	4073.870
216	a	979.990	16993.1693350	4074.521	-0.018	27.460	-0.194	-0.525	0.307	4074.109
217	a	979.990	16993.1741900	4074.543	-0.018	27.460	-0.194	-0.525	0.308	4074.132
218	a	970.020	16993.1789530	4074.276	-0.019	26.522	-0.193	-0.523	0.309	4073.869
219	a	959.990	16993.1840930	4074.006	-0.019	25.579	-0.192	-0.520	0.310	4073.604
221	a	990.000	16993.1950910	4074.769	-0.020	28.401	-0.195	-0.528	0.313	4074.359
222	a	990.000	16993.1988340	4074.794	-0.021	28.401	-0.195	-0.528	0.314	4074.385
223	a	979.990	16993.2033040	4074.531	-0.022	27.460	-0.194	-0.525	0.315	4074.127
224	a	970.000	16993.2080200	4074.266	-0.023	26.520	-0.193	-0.523	0.316	4073.866
225	a	960.000	16993.2129840	4073.995	-0.024	25.580	-0.192	-0.520	0.317	4073.600
226	a	950.010	16993.2179520	4073.650	-0.025	24.640	-0.191	-0.518	0.318	4073.259
228	a	960.000	16993.2314520	4073.998	-0.029	25.580	-0.192	-0.520	0.321	4073.607
229	a	949.990	16993.2368990	4073.650	-0.031	24.639	-0.191	-0.517	0.322	4073.264
231	a	940.000	16993.2505070	4073.163	-0.036	23.699	-0.190	-0.515	0.325	4072.783
233	a	960.010	16993.2599200	4073.986	-0.040	25.581	-0.192	-0.520	0.328	4073.601
234	a	950.000	16993.2648660	4073.641	-0.042	24.640	-0.191	-0.517	0.329	4073.261
236	a	950.000	16993.2751500	4073.651	-0.046	24.640	-0.191	-0.517	0.331	4073.273
237	a	940.020	16993.2802060	4073.159	-0.049	23.701	-0.190	-0.515	0.332	4072.786
240	a	950.000	16993.3041840	4073.626	-0.061	24.640	-0.191	-0.517	0.338	4073.255
241	a	950.000	16993.3094100	4073.630	-0.063	24.640	-0.191	-0.517	0.339	4073.260
242	a	940.000	16993.3143100	4073.142	-0.066	23.699	-0.190	-0.515	0.340	4072.777
243	a	929.990	16993.3199990	4072.619	-0.069	22.758	-0.189	-0.512	0.341	4072.259
245	a	930.000	16993.3310280	4072.623	-0.074	22.759	-0.189	-0.512	0.344	4072.265
246	a	930.000	16993.3357660	4072.628	-0.076	22.759	-0.189	-0.512	0.345	4072.271
247	a	919.990	16993.3405680	4072.145	-0.078	21.817	-0.188	-0.509	0.346	4071.793

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
249	a	940.000	16993.3579230	4073.128	-0.085	23.699	-0.190	-0.515	0.350	4072.773
250	a	930.000	16993.3650240	4072.614	-0.087	22.759	-0.189	-0.512	0.351	4072.264
252	a	919.990	16993.3753840	4072.135	-0.091	21.817	-0.188	-0.509	0.354	4071.791
253	a	910.000	16993.3822300	4071.637	-0.092	20.878	-0.187	-0.507	0.355	4071.298
254	a	940.000	16993.3911810	4073.127	-0.094	23.699	-0.190	-0.515	0.357	4072.779
255	a	929.990	16993.3992860	4072.609	-0.096	22.758	-0.189	-0.512	0.359	4072.267
256	a	929.990	16993.4039160	4072.611	-0.096	22.758	-0.189	-0.512	0.360	4072.270
257	a	919.980	16993.4095030	4072.122	-0.097	21.816	-0.188	-0.509	0.361	4071.786
258	a	909.990	16993.4155790	4071.646	-0.097	20.877	-0.187	-0.507	0.363	4071.315
259	a	909.990	16993.4207890	4071.651	-0.097	20.877	-0.187	-0.507	0.364	4071.321
260	a	900.000	16993.4264130	4071.211	-0.097	19.937	-0.187	-0.504	0.365	4070.886
262	a	920.020	16993.4496010	4072.094	-0.093	21.820	-0.188	-0.509	0.371	4071.767
263	a	910.000	16993.4552510	4071.607	-0.091	20.878	-0.187	-0.507	0.372	4071.285
264	a	910.000	16993.4598460	4071.633	-0.089	20.878	-0.187	-0.507	0.373	4071.312
265	a	900.000	16993.4691130	4071.193	-0.086	19.937	-0.187	-0.504	0.375	4070.878
266	a	890.000	16993.4751710	4070.742	-0.083	18.997	-0.186	-0.501	0.376	4070.432
267	a	890.000	16993.4809950	4070.755	-0.080	18.997	-0.186	-0.501	0.378	4070.446
268	a	909.979	16993.4901270	4071.634	-0.075	20.876	-0.187	-0.507	0.380	4071.320
269	a	900.000	16993.4958560	4071.192	-0.071	19.937	-0.187	-0.504	0.381	4070.883
270	a	890.000	16993.5018230	4070.740	-0.068	18.997	-0.186	-0.501	0.382	4070.436
271	a	890.000	16993.5071050	4070.756	-0.064	18.997	-0.186	-0.501	0.384	4070.453
272	a	879.979	16993.5142040	4070.328	-0.059	18.054	-0.185	-0.498	0.385	4070.030
273	a	899.990	16993.5243440	4071.185	-0.051	19.936	-0.187	-0.504	0.387	4070.882
274	a	889.990	16993.5310220	4070.733	-0.045	18.996	-0.186	-0.501	0.389	4070.435
275	a	889.990	16993.5371780	4070.749	-0.040	18.996	-0.186	-0.501	0.390	4070.453
276	a	880.000	16993.5451650	4070.323	-0.033	18.056	-0.185	-0.499	0.392	4070.032
277	a	870.000	16993.5516720	4069.902	-0.027	17.116	-0.184	-0.496	0.394	4069.616
278	a	870.000	16993.5574700	4069.910	-0.022	17.116	-0.184	-0.496	0.395	4069.626

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
279	a	890.000	16993.5662170	4070.744	-0.014	18.997	-0.186	-0.501	0.397	4070.454
280	a	880.000	16993.5725180	4070.312	-0.008	18.056	-0.185	-0.499	0.398	4070.027
281	a	869.990	16993.5781520	4069.889	-0.003	17.115	-0.184	-0.496	0.400	4069.609
282	a	869.990	16993.5826270	4069.910	0.002	17.115	-0.184	-0.496	0.401	4069.631
283	a	860.000	16993.5884450	4069.463	0.007	16.175	-0.183	-0.493	0.402	4069.189
284	a	880.000	16993.6045950	4070.306	0.022	18.056	-0.185	-0.499	0.406	4070.029
285	a	870.000	16993.6123080	4069.888	0.029	17.116	-0.184	-0.496	0.407	4069.616
286	a	870.000	16993.6174860	4069.903	0.033	17.116	-0.184	-0.496	0.409	4069.632
287	a	859.958	16993.6247250	4069.450	0.039	16.172	-0.183	-0.493	0.410	4069.185
288	a	850.000	16993.6312760	4069.089	0.044	15.235	-0.181	-0.490	0.412	4068.829
289	a	850.000	16993.6376470	4069.103	0.049	15.235	-0.181	-0.490	0.413	4068.844
290	a	870.000	16993.6499350	4069.899	0.058	17.116	-0.184	-0.496	0.416	4069.636
291	a	860.000	16993.6551570	4069.444	0.061	16.175	-0.183	-0.493	0.417	4069.186
292	a	849.979	16993.6623850	4069.075	0.066	15.233	-0.181	-0.490	0.419	4068.822
293	a	849.979	16993.6699060	4069.083	0.070	15.233	-0.181	-0.490	0.420	4068.832
294	a	839.979	16993.6876880	4068.873	0.077	14.293	-0.180	-0.487	0.424	4068.630
295	a	859.990	16993.7018720	4069.430	0.081	16.175	-0.183	-0.493	0.428	4069.182
296	a	850.000	16993.7093880	4069.071	0.082	15.235	-0.181	-0.490	0.429	4068.829
297	a	850.000	16993.7138220	4069.084	0.083	15.235	-0.181	-0.490	0.430	4068.843
298	a	840.010	16993.7202000	4068.858	0.083	14.296	-0.180	-0.487	0.432	4068.622
299	a	830.010	16993.7268170	4068.630	0.083	13.355	-0.179	-0.485	0.433	4068.399
300	a	850.031	16993.7400760	4069.076	0.082	15.238	-0.182	-0.490	0.436	4068.841
301	a	840.010	16993.7482590	4068.852	0.080	14.296	-0.180	-0.487	0.438	4068.622
302	a	829.990	16993.7545870	4068.622	0.078	13.353	-0.179	-0.485	0.440	4068.397
303	a	819.958	16993.7621670	4068.374	0.076	12.410	-0.178	-0.482	0.441	4068.155
304	a	840.000	16993.7737390	4068.837	0.071	14.295	-0.180	-0.487	0.444	4068.613
305	a	830.000	16993.7796800	4068.606	0.068	13.354	-0.179	-0.485	0.445	4068.387
306	a	820.000	16993.7842950	4068.368	0.065	12.414	-0.178	-0.482	0.446	4068.154

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
307	a	810.000	16993.7888760	4068.136	0.063	11.473	-0.177	-0.479	0.447	4067.927
308	a	830.000	16993.7953210	4068.608	0.059	13.354	-0.179	-0.485	0.449	4068.393
309	a	820.042	16993.8009450	4068.367	0.055	12.418	-0.178	-0.482	0.450	4068.157
310	a	810.042	16993.8060760	4068.140	0.052	11.477	-0.177	-0.479	0.451	4067.935
311	a	800.042	16993.8190180	4067.898	0.042	10.537	-0.176	-0.476	0.454	4067.700
312	a	820.021	16993.8285550	4068.349	0.035	12.416	-0.178	-0.482	0.456	4068.145
313	a	810.000	16993.8344440	4068.117	0.030	11.473	-0.177	-0.479	0.458	4067.918
314	a	800.000	16993.8390850	4067.885	0.027	10.533	-0.176	-0.476	0.459	4067.691
315	a	800.000	16993.8434380	4067.891	0.023	10.533	-0.176	-0.476	0.460	4067.698
316	a	790.000	16993.8481180	4067.653	0.019	9.592	-0.175	-0.474	0.461	4067.465
318	a	810.021	16993.8722870	4068.109	-0.001	11.475	-0.177	-0.479	0.466	4067.919
319	a	800.000	16993.8770080	4067.879	-0.005	10.533	-0.176	-0.476	0.467	4067.694
320	a	800.000	16993.8808480	4067.891	-0.008	10.533	-0.176	-0.476	0.468	4067.707
321	a	790.000	16993.8860270	4067.649	-0.012	9.592	-0.175	-0.474	0.469	4067.470
322	a	780.000	16993.8912330	4067.402	-0.016	8.652	-0.174	-0.471	0.470	4067.228
323	a	800.000	16993.9019530	4067.893	-0.025	10.533	-0.176	-0.476	0.473	4067.714
324	a	800.000	16993.9064640	4067.867	-0.028	10.533	-0.176	-0.476	0.474	4067.689
325	a	789.958	16993.9117350	4067.642	-0.032	9.588	-0.175	-0.473	0.475	4067.469
326	a	780.021	16993.9196640	4067.389	-0.037	8.654	-0.174	-0.471	0.477	4067.221
327	a	769.979	16993.9261400	4067.127	-0.042	7.710	-0.173	-0.468	0.478	4066.965
328	a	790.000	16993.9337290	4067.641	-0.047	9.592	-0.175	-0.474	0.480	4067.473
329	a	780.000	16993.9400980	4067.385	-0.050	8.652	-0.174	-0.471	0.482	4067.222
330	a	770.000	16993.9446430	4067.119	-0.053	7.712	-0.173	-0.468	0.483	4066.961
331	a	760.000	16993.9492790	4066.750	-0.055	6.771	-0.171	-0.465	0.484	4066.597
332	a	780.000	16993.9564020	4067.386	-0.059	8.652	-0.174	-0.471	0.485	4067.227
333	a	770.000	16993.9610300	4067.117	-0.061	7.712	-0.173	-0.468	0.486	4066.963
334	a	760.000	16993.9653670	4066.742	-0.063	6.771	-0.171	-0.465	0.487	4066.593
335	a	760.000	16993.9694610	4066.742	-0.064	6.771	-0.171	-0.465	0.488	4066.594

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
336	a	750.000	16993.9747240	4066.296	-0.066	5.831	-0.170	-0.462	0.489	4066.153
337	a	770.000	16993.9814470	4067.113	-0.068	7.712	-0.173	-0.468	0.491	4066.963
338	a	760.021	16993.9865010	4066.748	-0.070	6.773	-0.171	-0.465	0.492	4066.604
339	a	760.000	16993.9906820	4066.749	-0.071	6.771	-0.171	-0.465	0.493	4066.606
340	a	750.000	16994.0009720	4066.303	-0.073	5.831	-0.170	-0.462	0.495	4066.166
341	a	740.000	16994.0060910	4065.895	-0.074	4.890	-0.169	-0.459	0.496	4065.763
342	a	760.000	16994.0143930	4066.753	-0.074	6.771	-0.171	-0.465	0.498	4066.615
343	a	750.000	16994.0190050	4066.298	-0.075	5.831	-0.170	-0.462	0.499	4066.165
344	a	740.000	16994.0236240	4065.891	-0.075	4.890	-0.169	-0.459	0.500	4065.763
345	a	730.000	16994.0278000	4065.618	-0.075	3.950	-0.168	-0.457	0.501	4065.495
346	a	750.000	16994.0358930	4066.293	-0.075	5.831	-0.170	-0.462	0.503	4066.164
347	a	740.021	16994.0409150	4065.888	-0.074	4.892	-0.169	-0.459	0.504	4065.764
348	a	730.000	16994.0462090	4065.612	-0.074	3.950	-0.168	-0.457	0.506	4065.493
349	a	730.000	16994.0512400	4065.621	-0.073	3.950	-0.168	-0.457	0.507	4065.503
350	a	720.000	16994.0561500	4065.418	-0.072	3.009	-0.166	-0.454	0.508	4065.306
352	a	740.000	16994.0658240	4065.879	-0.071	4.890	-0.169	-0.459	0.510	4065.761
353	a	730.021	16994.0704840	4065.603	-0.070	3.952	-0.168	-0.457	0.511	4065.490
354	a	730.021	16994.0745020	4065.612	-0.069	3.952	-0.168	-0.457	0.512	4065.500
355	a	720.021	16994.0796690	4065.406	-0.068	3.011	-0.166	-0.454	0.513	4065.299
356	a	710.042	16994.0842540	4065.193	-0.067	2.073	-0.165	-0.451	0.514	4065.091
357	a	730.021	16994.0922930	4065.627	-0.064	3.952	-0.168	-0.457	0.516	4065.519
358	a	720.000	16994.0975790	4065.406	-0.063	3.009	-0.166	-0.454	0.517	4065.303
359	a	710.000	16994.1025670	4065.203	-0.062	2.069	-0.165	-0.451	0.518	4065.105
360	a	700.000	16994.1077550	4064.985	-0.060	1.129	-0.164	-0.448	0.519	4064.893
361	a	720.010	16994.1165660	4065.414	-0.058	3.010	-0.166	-0.454	0.521	4065.315
362	a	710.000	16994.1215120	4065.202	-0.056	2.069	-0.165	-0.451	0.523	4065.109
363	a	700.000	16994.1262150	4064.976	-0.055	1.129	-0.164	-0.448	0.524	4064.888
364	a	690.000	16994.1313750	4064.761	-0.053	0.188	-0.163	-0.445	0.525	4064.678

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
365	a	710.010	16994.1403580	4065.191	-0.051	2.070	-0.165	-0.451	0.527	4065.102
366	a	700.000	16994.1452710	4064.968	-0.050	1.129	-0.164	-0.448	0.528	4064.884
367	a	690.000	16994.1501480	4064.747	-0.048	0.188	-0.163	-0.445	0.529	4064.668
368	a	680.000	16994.1550480	4064.532	-0.047	-0.752	-0.161	-0.442	0.530	4064.459
369	a	700.020	16994.1628820	4064.967	-0.045	1.130	-0.164	-0.448	0.532	4064.887
370	a	690.000	16994.1711600	4064.727	-0.044	0.188	-0.163	-0.445	0.534	4064.653
371	a	690.000	16994.1765260	4064.738	-0.043	0.188	-0.163	-0.445	0.535	4064.665
372	a	680.010	16994.1813460	4064.526	-0.042	-0.751	-0.161	-0.442	0.536	4064.459
373	a	670.020	16994.1862580	4064.325	-0.041	-1.691	-0.160	-0.440	0.537	4064.263
374	a	690.000	16994.1928080	4064.745	-0.041	0.188	-0.163	-0.445	0.539	4064.676
375	a	690.000	16994.1967720	4064.748	-0.040	0.188	-0.163	-0.445	0.540	4064.680
376	a	680.000	16994.2015200	4064.534	-0.040	-0.752	-0.161	-0.442	0.541	4064.471
377	a	670.000	16994.2063200	4064.330	-0.040	-1.693	-0.160	-0.439	0.542	4064.272
378	a	660.020	16994.2119930	4064.112	-0.040	-2.631	-0.159	-0.437	0.543	4064.060
379	a	680.000	16994.2189630	4064.540	-0.040	-0.752	-0.161	-0.442	0.545	4064.481
380	a	670.020	16994.2249210	4064.330	-0.040	-1.691	-0.160	-0.440	0.546	4064.277
381	a	660.000	16994.2299490	4064.110	-0.041	-2.633	-0.159	-0.437	0.547	4064.062
382	a	650.000	16994.2352700	4063.890	-0.041	-3.574	-0.157	-0.434	0.548	4063.848
383	a	670.000	16994.2440320	4064.315	-0.042	-1.693	-0.160	-0.439	0.550	4064.266
384	a	660.010	16994.2505480	4064.100	-0.043	-2.632	-0.159	-0.437	0.552	4064.057
385	a	650.010	16994.2556650	4063.885	-0.044	-3.573	-0.157	-0.434	0.553	4063.847
386	a	640.000	16994.2660670	4063.672	-0.047	-4.514	-0.156	-0.431	0.555	4063.641
387	a	660.000	16994.2735490	4064.093	-0.049	-2.633	-0.159	-0.437	0.557	4064.055
388	a	649.980	16994.2795450	4063.883	-0.051	-3.575	-0.157	-0.434	0.558	4063.851
389	a	639.990	16994.2849630	4063.654	-0.053	-4.515	-0.156	-0.431	0.560	4063.627
390	a	630.000	16994.2903820	4063.436	-0.055	-5.454	-0.154	-0.428	0.561	4063.415
391	a	650.020	16994.2974190	4063.869	-0.057	-3.572	-0.157	-0.434	0.562	4063.841
392	a	639.980	16994.3036470	4063.652	-0.059	-4.516	-0.156	-0.431	0.564	4063.629

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
393	a	630.000	16994.3085440	4063.431	-0.061	-5.454	-0.154	-0.428	0.565	4063.414
394	a	630.000	16994.3138320	4063.447	-0.064	-5.454	-0.154	-0.428	0.566	4063.431
395	a	620.000	16994.3196600	4063.229	-0.066	-6.395	-0.153	-0.425	0.567	4063.219
397	a	639.990	16994.3292970	4063.639	-0.070	-4.515	-0.156	-0.431	0.570	4063.622
398	a	630.000	16994.3341100	4063.418	-0.072	-5.454	-0.154	-0.428	0.571	4063.406
399	a	630.000	16994.3379580	4063.436	-0.074	-5.454	-0.154	-0.428	0.572	4063.425
400	a	620.000	16994.3430620	4063.229	-0.076	-6.395	-0.153	-0.425	0.573	4063.224
401	a	609.980	16994.3480670	4063.007	-0.078	-7.337	-0.151	-0.422	0.574	4063.007
402	a	630.010	16994.3556100	4063.408	-0.081	-5.453	-0.154	-0.428	0.576	4063.401
403	a	630.010	16994.3598200	4063.429	-0.083	-5.453	-0.154	-0.428	0.577	4063.423
404	a	619.980	16994.3667840	4063.214	-0.085	-6.397	-0.153	-0.425	0.578	4063.214
405	a	610.000	16994.3720520	4062.988	-0.087	-7.335	-0.151	-0.422	0.579	4062.994
406	a	600.000	16994.3777610	4062.763	-0.089	-8.276	-0.150	-0.419	0.581	4062.774
407	a	620.010	16994.3856510	4063.207	-0.092	-6.394	-0.153	-0.425	0.582	4063.211
408	a	610.000	16994.3913750	4062.990	-0.093	-7.335	-0.151	-0.422	0.584	4063.000
409	a	600.000	16994.3965330	4062.760	-0.095	-8.276	-0.150	-0.419	0.585	4062.776
410	a	589.990	16994.4089080	4062.501	-0.097	-9.217	-0.148	-0.416	0.588	4062.524
411	a	610.010	16994.4162720	4062.976	-0.098	-7.334	-0.151	-0.422	0.589	4062.992
412	a	600.000	16994.4215640	4062.751	-0.099	-8.276	-0.150	-0.419	0.591	4062.772
413	a	590.000	16994.4278370	4062.507	-0.099	-9.216	-0.148	-0.416	0.592	4062.534
414	a	580.000	16994.4335610	4062.179	-0.099	-10.156	-0.147	-0.413	0.593	4062.212
415	a	580.000	16994.4381750	4062.191	-0.099	-10.156	-0.147	-0.413	0.594	4062.225
416	a	600.000	16994.4467030	4062.734	-0.098	-8.276	-0.150	-0.419	0.596	4062.761
417	a	589.990	16994.4535220	4062.497	-0.097	-9.217	-0.148	-0.416	0.598	4062.530
418	a	580.000	16994.4606020	4062.187	-0.096	-10.156	-0.147	-0.413	0.599	4062.226
419	a	580.000	16994.4644520	4062.203	-0.095	-10.156	-0.147	-0.413	0.600	4062.243
420	a	569.990	16994.4703000	4061.856	-0.093	-11.098	-0.145	-0.410	0.602	4061.902
421	a	590.000	16994.4785200	4062.490	-0.090	-9.216	-0.148	-0.416	0.603	4062.529

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
422	a	580.000	16994.4844640	4062.164	-0.087	-10.156	-0.147	-0.413	0.605	4062.209
423	a	580.000	16994.4883220	4062.184	-0.085	-10.156	-0.147	-0.413	0.606	4062.229
424	a	569.990	16994.4941670	4061.836	-0.082	-11.098	-0.145	-0.410	0.607	4061.887
425	a	559.990	16994.5013490	4061.453	-0.078	-12.038	-0.144	-0.408	0.609	4061.510
426	a	579.990	16994.5086510	4062.188	-0.073	-10.157	-0.147	-0.413	0.610	4062.238
427	a	570.000	16994.5150450	4061.837	-0.069	-11.097	-0.145	-0.411	0.612	4061.893
428	a	559.990	16994.5209310	4061.452	-0.065	-12.038	-0.144	-0.408	0.613	4061.514
429	a	550.000	16994.5262730	4061.002	-0.060	-12.978	-0.142	-0.405	0.614	4061.069
430	a	550.000	16994.5315350	4061.004	-0.056	-12.978	-0.142	-0.405	0.615	4061.073
431	a	570.000	16994.5409060	4061.834	-0.048	-11.097	-0.145	-0.411	0.618	4061.896
432	a	560.000	16994.5473640	4061.449	-0.042	-12.037	-0.144	-0.408	0.619	4061.517
433	a	550.000	16994.5539190	4060.995	-0.036	-12.978	-0.142	-0.405	0.620	4061.069
434	a	550.000	16994.5603430	4061.006	-0.029	-12.978	-0.142	-0.405	0.622	4061.081
435	a	540.000	16994.5760100	4060.542	-0.013	-13.918	-0.141	-0.402	0.625	4060.625
436	a	559.990	16994.5867830	4061.437	-0.001	-12.038	-0.144	-0.408	0.628	4061.514
437	a	549.990	16994.5925750	4060.988	0.005	-12.979	-0.142	-0.405	0.629	4061.070
438	a	549.990	16994.5966600	4060.986	0.010	-12.979	-0.142	-0.405	0.630	4061.069
439	a	540.000	16994.6025530	4060.525	0.016	-13.918	-0.141	-0.402	0.631	4060.614
440	a	530.000	16994.6103240	4060.077	0.025	-14.858	-0.139	-0.399	0.633	4060.172
441	a	530.000	16994.6169330	4060.075	0.032	-14.858	-0.139	-0.399	0.635	4060.172
442	a	550.000	16994.6293250	4060.991	0.045	-12.978	-0.142	-0.405	0.638	4061.082
443	a	539.958	16994.6372200	4060.513	0.054	-13.922	-0.141	-0.402	0.639	4060.610
444	a	539.958	16994.6480710	4060.513	0.065	-13.922	-0.141	-0.402	0.642	4060.612
445	a	529.969	16994.6553190	4060.068	0.071	-14.861	-0.139	-0.399	0.643	4060.174
446	a	520.000	16994.6627830	4059.592	0.078	-15.799	-0.137	-0.396	0.645	4059.704
448	a	539.990	16994.6736310	4060.517	0.087	-13.919	-0.141	-0.402	0.648	4060.622
449	a	529.990	16994.6799940	4060.062	0.092	-14.859	-0.139	-0.399	0.649	4060.173
450	a	529.990	16994.6844760	4060.062	0.095	-14.859	-0.139	-0.399	0.650	4060.174

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
451	a	520.010	16994.6926590	4059.612	0.101	-15.798	-0.137	-0.396	0.652	4059.731
452	a	510.000	16994.6981460	4059.136	0.104	-16.739	-0.136	-0.393	0.653	4059.260
453	a	510.000	16994.7031570	4059.126	0.107	-16.739	-0.136	-0.393	0.654	4059.252
454	a	530.000	16994.7196010	4060.059	0.114	-14.858	-0.139	-0.399	0.658	4060.179
455	a	520.000	16994.7257730	4059.609	0.116	-15.799	-0.137	-0.396	0.659	4059.735
456	a	510.000	16994.7333300	4059.124	0.117	-16.739	-0.136	-0.393	0.661	4059.256
457	a	510.000	16994.7403030	4059.118	0.118	-16.739	-0.136	-0.393	0.663	4059.252
458	a	500.021	16994.7472700	4058.647	0.119	-17.678	-0.134	-0.390	0.664	4058.787
460	a	520.000	16994.7646670	4059.588	0.117	-15.799	-0.137	-0.396	0.668	4059.723
461	a	510.000	16994.7695670	4059.107	0.116	-16.739	-0.136	-0.393	0.669	4059.248
462	a	510.000	16994.7737260	4059.112	0.115	-16.739	-0.136	-0.393	0.670	4059.254
463	a	500.000	16994.7837250	4058.638	0.111	-17.680	-0.134	-0.390	0.672	4058.786
464	a	490.000	16994.7900870	4058.249	0.109	-18.620	-0.132	-0.387	0.674	4058.403
465	a	510.000	16994.7960850	4059.114	0.106	-16.739	-0.136	-0.393	0.675	4059.261
466	a	500.021	16994.8005900	4058.637	0.103	-17.678	-0.134	-0.390	0.676	4058.789
467	a	490.000	16994.8047580	4058.240	0.101	-18.620	-0.132	-0.387	0.677	4058.398
468	a	480.000	16994.8091450	4058.022	0.098	-19.560	-0.131	-0.384	0.678	4058.185
469	a	500.000	16994.8156130	4058.633	0.093	-17.680	-0.134	-0.390	0.680	4058.789
470	a	490.000	16994.8201630	4058.240	0.090	-18.620	-0.132	-0.387	0.681	4058.401
471	a	480.000	16994.8242530	4058.024	0.087	-19.560	-0.131	-0.384	0.682	4058.191
472	a	480.000	16994.8281900	4058.022	0.084	-19.560	-0.131	-0.384	0.683	4058.190
473	a	470.000	16994.8332450	4057.831	0.080	-20.501	-0.129	-0.381	0.684	4058.004
475	a	490.000	16994.8401320	4058.232	0.073	-18.620	-0.132	-0.387	0.685	4058.398
476	a	480.000	16994.8440970	4058.017	0.070	-19.560	-0.131	-0.384	0.686	4058.188
477	a	480.000	16994.8477430	4058.019	0.067	-19.560	-0.131	-0.384	0.687	4058.191
478	a	470.000	16994.8517100	4057.827	0.063	-20.501	-0.129	-0.381	0.688	4058.005
479	a	460.000	16994.8566750	4057.624	0.058	-21.441	-0.127	-0.378	0.689	4057.807
480	a	480.000	16994.8626680	4058.023	0.052	-19.560	-0.131	-0.384	0.690	4058.198

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
481	a	470.000	16994.8666640	4057.823	0.048	-20.501	-0.129	-0.381	0.691	4058.004
482	a	460.000	16994.8709740	4057.620	0.043	-21.441	-0.127	-0.378	0.692	4057.807
483	a	450.000	16994.8753570	4057.411	0.039	-22.382	-0.126	-0.375	0.693	4057.603
484	a	470.000	16994.8821180	4057.825	0.032	-20.501	-0.129	-0.381	0.695	4058.009
485	a	460.000	16994.8867480	4057.621	0.027	-21.441	-0.127	-0.378	0.696	4057.811
486	a	450.000	16994.8916420	4057.402	0.022	-22.382	-0.126	-0.375	0.697	4057.598
487	a	440.000	16994.9017180	4057.193	0.011	-23.322	-0.124	-0.372	0.699	4057.396
488	a	460.000	16994.9079020	4057.623	0.005	-21.441	-0.127	-0.378	0.701	4057.818
489	a	450.000	16994.9123070	4057.404	0.000	-22.382	-0.126	-0.375	0.702	4057.605
490	a	440.000	16994.9167030	4057.181	-0.004	-23.322	-0.124	-0.372	0.703	4057.387
491	a	430.000	16994.9211910	4056.967	-0.009	-24.262	-0.122	-0.369	0.704	4057.179
492	a	450.000	16994.9273090	4057.407	-0.015	-22.382	-0.126	-0.375	0.705	4057.611
493	a	440.000	16994.9320070	4057.177	-0.020	-23.322	-0.124	-0.372	0.706	4057.387
495	a	430.000	16994.9521800	4056.966	-0.039	-24.262	-0.122	-0.369	0.711	4057.185
496	a	420.000	16994.9572710	4056.746	-0.043	-25.203	-0.121	-0.366	0.712	4056.971
497	a	440.000	16994.9631290	4057.179	-0.048	-23.322	-0.124	-0.372	0.713	4057.396
498	a	429.979	16994.9682770	4056.959	-0.052	-24.264	-0.122	-0.369	0.714	4057.182
499	a	420.000	16994.9724290	4056.738	-0.055	-25.203	-0.121	-0.366	0.715	4056.966
500	a	420.000	16994.9769300	4056.741	-0.059	-25.203	-0.121	-0.366	0.716	4056.970
501	a	410.000	16994.9816530	4056.532	-0.062	-26.143	-0.119	-0.363	0.717	4056.767
502	a	430.000	16994.9882140	4056.959	-0.066	-24.262	-0.122	-0.369	0.719	4057.186
503	a	420.000	16994.9924420	4056.735	-0.069	-25.203	-0.121	-0.366	0.720	4056.968
504	a	420.000	16994.9962750	4056.729	-0.071	-25.203	-0.121	-0.366	0.721	4056.963
505	a	410.000	16995.0007010	4056.523	-0.074	-26.143	-0.119	-0.363	0.722	4056.762
506	a	400.000	16995.0049800	4056.278	-0.076	-27.084	-0.117	-0.360	0.723	4056.523
507	a	420.000	16995.0149460	4056.740	-0.081	-25.203	-0.121	-0.366	0.725	4056.978
508	a	420.000	16995.0191180	4056.729	-0.082	-25.203	-0.121	-0.366	0.726	4056.968
509	a	410.000	16995.0241640	4056.529	-0.084	-26.143	-0.119	-0.363	0.727	4056.774

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
510	a	400.000	16995.0285910	4056.283	-0.086	-27.084	-0.117	-0.360	0.728	4056.534
511	a	390.010	16995.0341410	4055.999	-0.087	-28.023	-0.115	-0.357	0.729	4056.256
512	a	410.000	16995.0405200	4056.527	-0.089	-26.143	-0.119	-0.363	0.731	4056.775
513	a	400.000	16995.0451710	4056.283	-0.089	-27.084	-0.117	-0.360	0.732	4056.537
514	a	390.000	16995.0495620	4055.994	-0.090	-28.024	-0.115	-0.357	0.733	4056.254
515	a	380.000	16995.0618860	4055.695	-0.091	-28.964	-0.113	-0.354	0.735	4055.963
516	a	400.000	16995.0675840	4056.279	-0.091	-27.084	-0.117	-0.360	0.737	4056.538
517	a	390.021	16995.0731050	4055.984	-0.091	-28.022	-0.115	-0.357	0.738	4056.249
518	a	380.000	16995.0777920	4055.690	-0.091	-28.964	-0.113	-0.354	0.739	4055.961
520	a	370.000	16995.0849160	4055.327	-0.091	-29.905	-0.112	-0.351	0.741	4055.605
522	a	390.000	16995.0934620	4055.971	-0.090	-28.024	-0.115	-0.357	0.743	4056.241
523	a	380.000	16995.0986230	4055.687	-0.089	-28.964	-0.113	-0.354	0.744	4055.963
524	a	380.000	16995.1046180	4055.670	-0.088	-28.964	-0.113	-0.354	0.745	4055.947
525	a	370.000	16995.1130170	4055.330	-0.086	-29.905	-0.112	-0.351	0.747	4055.614
526	a	360.000	16995.1178500	4055.067	-0.085	-30.845	-0.110	-0.348	0.748	4055.357
527	a	380.020	16995.1254940	4055.677	-0.083	-28.962	-0.113	-0.354	0.750	4055.959
528	a	380.020	16995.1297510	4055.678	-0.082	-28.962	-0.113	-0.354	0.751	4055.961
530	a	370.010	16995.1382960	4055.319	-0.079	-29.904	-0.112	-0.351	0.753	4055.609
531	a	360.000	16995.1425860	4055.034	-0.078	-30.845	-0.110	-0.348	0.754	4055.329
532	a	350.010	16995.1476410	4054.708	-0.077	-31.785	-0.108	-0.346	0.755	4055.009
533	a	350.010	16995.1519610	4054.690	-0.075	-31.785	-0.108	-0.346	0.756	4054.992
534	a	380.000	16995.1589040	4055.659	-0.073	-28.964	-0.113	-0.354	0.757	4055.949
535	a	380.000	16995.1624660	4055.657	-0.072	-28.964	-0.113	-0.354	0.758	4055.947
536	a	370.000	16995.1681940	4055.307	-0.070	-29.905	-0.112	-0.351	0.760	4055.603
537	a	360.000	16995.1741560	4055.049	-0.069	-30.845	-0.110	-0.348	0.761	4055.352
538	a	350.010	16995.1793810	4054.686	-0.067	-31.785	-0.108	-0.346	0.762	4054.994
539	a	350.010	16995.1834920	4054.677	-0.066	-31.785	-0.108	-0.346	0.763	4054.986
540	a	340.000	16995.1888730	4054.367	-0.065	-32.726	-0.106	-0.343	0.764	4054.682

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
541	a	360.010	16995.1968980	4055.032	-0.063	-30.844	-0.110	-0.348	0.766	4055.340
542	a	350.000	16995.2015050	4054.685	-0.061	-31.785	-0.108	-0.345	0.767	4054.998
543	a	350.000	16995.2056930	4054.677	-0.061	-31.785	-0.108	-0.345	0.768	4054.991
544	a	340.000	16995.2106140	4054.350	-0.060	-32.726	-0.106	-0.343	0.769	4054.670
545	a	330.000	16995.2153530	4054.035	-0.059	-33.666	-0.104	-0.340	0.770	4054.361
546	a	350.000	16995.2223480	4054.669	-0.058	-31.785	-0.108	-0.345	0.772	4054.987
547	a	350.000	16995.2261110	4054.674	-0.057	-31.785	-0.108	-0.345	0.773	4054.993
548	a	340.000	16995.2312850	4054.351	-0.057	-32.726	-0.106	-0.343	0.774	4054.676
549	a	329.990	16995.2370720	4054.030	-0.056	-33.667	-0.104	-0.339	0.775	4054.361
550	a	320.000	16995.2484640	4053.743	-0.056	-34.607	-0.103	-0.337	0.778	4054.082
551	a	339.990	16995.2569630	4054.342	-0.056	-32.727	-0.106	-0.342	0.780	4054.673
552	a	330.010	16995.2619320	4054.023	-0.056	-33.665	-0.104	-0.340	0.781	4054.360
553	a	320.000	16995.2670660	4053.739	-0.056	-34.607	-0.103	-0.337	0.782	4054.082
555	a	309.980	16995.2741230	4053.310	-0.057	-35.549	-0.101	-0.333	0.783	4053.659
556	a	330.000	16995.2815880	4054.021	-0.058	-33.666	-0.104	-0.340	0.785	4054.362
557	a	319.980	16995.2869480	4053.731	-0.058	-34.608	-0.103	-0.336	0.786	4054.078
558	a	319.980	16995.2916840	4053.711	-0.059	-34.608	-0.103	-0.336	0.787	4054.059
559	a	309.980	16995.2975980	4053.305	-0.060	-35.549	-0.101	-0.333	0.789	4053.659
560	a	300.020	16995.3039350	4053.007	-0.062	-36.485	-0.099	-0.331	0.790	4053.368
561	a	320.000	16995.3116910	4053.730	-0.064	-34.607	-0.103	-0.337	0.792	4054.083
562	a	320.000	16995.3158980	4053.710	-0.065	-34.607	-0.103	-0.337	0.793	4054.064
563	a	309.990	16995.3212600	4053.295	-0.067	-35.548	-0.101	-0.334	0.794	4053.655
564	a	299.970	16995.3272210	4052.979	-0.068	-36.490	-0.099	-0.330	0.796	4053.345
565	a	290.010	16995.3323780	4052.609	-0.070	-37.427	-0.097	-0.328	0.797	4052.981
566	a	309.980	16995.3417040	4053.291	-0.073	-35.549	-0.101	-0.333	0.799	4053.655
567	a	300.010	16995.3474080	4052.985	-0.075	-36.486	-0.099	-0.331	0.800	4053.356
568	a	290.000	16995.3526610	4052.613	-0.077	-37.428	-0.097	-0.327	0.801	4052.990
570	a	280.020	16995.3610670	4052.194	-0.080	-38.366	-0.095	-0.324	0.803	4052.577

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
573	a	300.010	16995.3790640	4052.994	-0.086	-36.486	-0.099	-0.331	0.807	4053.372
574	a	290.020	16995.3840240	4052.620	-0.088	-37.426	-0.097	-0.328	0.808	4053.004
575	a	290.020	16995.3879740	4052.601	-0.089	-37.426	-0.097	-0.328	0.809	4052.986
576	a	279.960	16995.3938270	4052.184	-0.091	-38.372	-0.095	-0.324	0.811	4052.575
577	a	269.970	16995.4065450	4051.842	-0.095	-39.311	-0.094	-0.321	0.813	4052.241
578	a	290.000	16995.4132920	4052.611	-0.096	-37.428	-0.097	-0.327	0.815	4053.001
579	a	290.000	16995.4171730	4052.601	-0.097	-37.428	-0.097	-0.327	0.816	4052.992
580	a	280.010	16995.4222730	4052.182	-0.098	-38.367	-0.095	-0.324	0.817	4052.579
581	a	269.970	16995.4281340	4051.827	-0.099	-39.311	-0.094	-0.321	0.818	4052.230
582	a	259.990	16995.4356440	4051.369	-0.100	-40.250	-0.092	-0.318	0.820	4051.779
584	a	270.000	16995.4512600	4051.818	-0.101	-39.308	-0.094	-0.321	0.824	4052.227
585	a	259.979	16995.4579340	4051.366	-0.100	-40.251	-0.092	-0.318	0.825	4051.781
586	a	259.979	16995.4626920	4051.353	-0.100	-40.251	-0.092	-0.318	0.826	4051.769
587	a	249.990	16995.4698850	4050.902	-0.099	-41.190	-0.090	-0.315	0.828	4051.325
588	a	270.000	16995.4941580	4051.807	-0.092	-39.308	-0.094	-0.321	0.833	4052.225
589	a	259.979	16995.5001070	4051.342	-0.090	-40.251	-0.092	-0.318	0.835	4051.767
590	a	259.979	16995.5043660	4051.336	-0.088	-40.251	-0.092	-0.318	0.836	4051.762
591	a	250.000	16995.5096400	4050.886	-0.085	-41.189	-0.090	-0.315	0.837	4051.318
592	a	239.990	16995.5155470	4050.531	-0.082	-42.130	-0.088	-0.312	0.838	4050.969
593	a	259.990	16995.5243450	4051.347	-0.076	-40.250	-0.092	-0.318	0.840	4051.777
594	a	259.990	16995.5292080	4051.339	-0.073	-40.250	-0.092	-0.318	0.841	4051.770
595	a	250.000	16995.5355550	4050.887	-0.068	-41.189	-0.090	-0.315	0.843	4051.324
596	a	239.979	16995.5424240	4050.537	-0.063	-42.132	-0.088	-0.312	0.844	4050.981
597	a	229.990	16995.5480830	4050.063	-0.058	-43.071	-0.086	-0.309	0.845	4050.513
598	a	229.990	16995.5543080	4050.034	-0.052	-43.071	-0.086	-0.309	0.847	4050.485
599	a	250.000	16995.5652620	4050.872	-0.042	-41.189	-0.090	-0.315	0.849	4051.316
600	a	239.979	16995.5719690	4050.518	-0.035	-42.132	-0.088	-0.312	0.851	4050.968
601	a	239.979	16995.5774710	4050.520	-0.029	-42.132	-0.088	-0.312	0.852	4050.972

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
602	a	229.979	16995.5839180	4050.027	-0.022	-43.072	-0.086	-0.309	0.854	4050.485
603	a	220.000	16995.6037040	4049.629	0.001	-44.010	-0.084	-0.306	0.858	4050.096
604	a	220.000	16995.6102650	4049.610	0.009	-44.010	-0.084	-0.306	0.860	4050.079
605	a	239.990	16995.6210340	4050.519	0.022	-42.130	-0.088	-0.312	0.862	4050.981
606	a	230.000	16995.6295120	4049.992	0.033	-43.070	-0.086	-0.309	0.864	4050.460
1	b	240.000	16995.9296130	4050.560	0.025	-42.130	-0.088	-0.312	0.815	4050.975
2	b	230.000	16995.9391780	4050.075	0.013	-43.070	-0.086	-0.309	0.817	4050.496
3	b	240.000	16995.9464600	4050.560	0.004	-42.130	-0.088	-0.312	0.818	4050.978
4	b	240.000	16995.9543260	4050.560	-0.005	-42.130	-0.088	-0.312	0.820	4050.980
5	b	230.000	16995.9592600	4050.066	-0.011	-43.070	-0.086	-0.309	0.821	4050.492
6	b	220.000	16995.9678700	4049.648	-0.020	-44.010	-0.084	-0.306	0.823	4050.080
7	b	240.000	16995.9790710	4050.544	-0.032	-42.130	-0.088	-0.312	0.825	4050.969
8	b	240.000	16995.9828440	4050.542	-0.036	-42.130	-0.088	-0.312	0.826	4050.968
9	b	230.000	16995.9877390	4050.051	-0.041	-43.070	-0.086	-0.309	0.827	4050.483
10	b	220.000	16995.9928590	4049.660	-0.046	-44.010	-0.084	-0.306	0.828	4050.098
11	b	220.000	16995.9971970	4049.659	-0.050	-44.010	-0.084	-0.306	0.829	4050.097
12	b	210.000	16996.0044330	4049.256	-0.057	-44.951	-0.082	-0.303	0.831	4049.701
13	b	240.000	16996.0121450	4050.536	-0.063	-42.130	-0.088	-0.312	0.832	4050.968
14	b	240.000	16996.0162110	4050.536	-0.066	-42.130	-0.088	-0.312	0.833	4050.969
15	b	230.000	16996.0209230	4050.044	-0.070	-43.070	-0.086	-0.309	0.834	4050.483
16	b	220.021	16996.0259550	4049.654	-0.073	-44.008	-0.084	-0.306	0.835	4050.099
17	b	220.021	16996.0302640	4049.652	-0.076	-44.008	-0.084	-0.306	0.836	4050.097
18	b	210.000	16996.0358470	4049.248	-0.080	-44.951	-0.082	-0.303	0.837	4049.700
19	b	200.000	16996.0419180	4048.781	-0.083	-45.891	-0.080	-0.300	0.839	4049.239
20	b	220.000	16996.0489810	4049.633	-0.087	-44.010	-0.084	-0.306	0.840	4050.082
21	b	220.000	16996.0532190	4049.637	-0.089	-44.010	-0.084	-0.306	0.841	4050.087
22	b	210.000	16996.0583610	4049.234	-0.091	-44.951	-0.082	-0.303	0.842	4049.690
23	b	200.000	16996.0633390	4048.759	-0.093	-45.891	-0.080	-0.300	0.843	4049.221

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
24	b	190.021	16996.0727000	4048.337	-0.096	-46.829	-0.079	-0.297	0.845	4048.806
25	b	210.021	16996.0804890	4049.228	-0.098	-44.949	-0.082	-0.303	0.847	4049.689
26	b	200.000	16996.0864360	4048.755	-0.099	-45.891	-0.080	-0.300	0.848	4049.222
27	b	190.000	16996.0909140	4048.332	-0.100	-46.831	-0.079	-0.297	0.849	4048.805
29	b	180.021	16996.0992770	4047.868	-0.100	-47.770	-0.076	-0.294	0.851	4048.348
30	b	200.000	16996.1079700	4048.751	-0.101	-45.891	-0.080	-0.300	0.852	4049.223
31	b	190.000	16996.1138910	4048.327	-0.100	-46.831	-0.079	-0.297	0.854	4048.805
33	b	190.000	16996.1252850	4048.335	-0.100	-46.831	-0.079	-0.297	0.856	4048.815
34	b	189.911	16996.1295160	4048.316	-0.099	-46.840	-0.078	-0.297	0.857	4048.797
35	b	200.021	16996.1367660	4048.748	-0.098	-45.889	-0.080	-0.300	0.859	4049.226
36	b	190.000	16996.1415720	4048.321	-0.097	-46.831	-0.079	-0.297	0.860	4048.805
37	b	190.000	16996.1452760	4048.331	-0.096	-46.831	-0.079	-0.297	0.860	4048.816
38	b	180.000	16996.1508200	4047.862	-0.095	-47.772	-0.076	-0.294	0.862	4048.353
39	b	170.021	16996.1592230	4047.439	-0.093	-48.710	-0.074	-0.291	0.863	4047.937
40	b	190.000	16996.1674590	4048.312	-0.091	-46.831	-0.079	-0.297	0.865	4048.801
41	b	190.000	16996.1716960	4048.329	-0.090	-46.831	-0.079	-0.297	0.866	4048.819
42	b	180.000	16996.1812130	4047.854	-0.087	-47.772	-0.076	-0.294	0.868	4048.351
43	b	170.000	16996.1876080	4047.424	-0.085	-48.712	-0.074	-0.291	0.869	4047.927
44	b	170.000	16996.1932290	4047.423	-0.083	-48.712	-0.074	-0.291	0.870	4047.928
45	b	160.020	16996.1991040	4046.951	-0.082	-49.651	-0.072	-0.288	0.872	4047.462
46	b	180.010	16996.2087730	4047.857	-0.079	-47.771	-0.076	-0.294	0.874	4048.360
47	b	170.000	16996.2203870	4047.433	-0.076	-48.712	-0.074	-0.291	0.876	4047.943
48	b	170.000	16996.2246980	4047.434	-0.075	-48.712	-0.074	-0.291	0.877	4047.945
49	b	160.020	16996.2309450	4046.954	-0.073	-49.651	-0.072	-0.288	0.878	4047.472
50	b	150.000	16996.2372060	4046.316	-0.072	-50.593	-0.070	-0.285	0.880	4046.840
51	b	170.000	16996.2439320	4047.423	-0.070	-48.712	-0.074	-0.291	0.881	4047.938
52	b	170.000	16996.2480330	4047.422	-0.069	-48.712	-0.074	-0.291	0.882	4047.938
53	b	160.020	16996.2545160	4046.940	-0.068	-49.651	-0.072	-0.288	0.883	4047.463

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
54	b	150.010	16996.2605690	4046.310	-0.067	-50.592	-0.070	-0.285	0.885	4046.839
55	b	150.010	16996.2653910	4046.329	-0.067	-50.592	-0.070	-0.285	0.886	4046.859
56	b	139.980	16996.2713310	4045.913	-0.066	-51.535	-0.068	-0.282	0.887	4046.450
57	b	159.980	16996.2789680	4046.941	-0.066	-49.654	-0.072	-0.288	0.888	4047.469
58	b	149.990	16996.2841870	4046.289	-0.066	-50.594	-0.070	-0.285	0.890	4046.823
59	b	149.990	16996.2881710	4046.312	-0.066	-50.594	-0.070	-0.285	0.890	4046.847
60	b	140.020	16996.2931830	4045.882	-0.066	-51.531	-0.068	-0.282	0.891	4046.424
61	b	129.990	16996.2987090	4045.412	-0.066	-52.474	-0.065	-0.279	0.893	4045.960
62	b	150.000	16996.3072930	4046.276	-0.067	-50.593	-0.070	-0.285	0.894	4046.815
63	b	150.000	16996.3111560	4046.298	-0.067	-50.593	-0.070	-0.285	0.895	4046.838
64	b	140.030	16996.3157200	4045.880	-0.068	-51.530	-0.068	-0.282	0.896	4046.426
65	b	129.980	16996.3210650	4045.396	-0.068	-52.475	-0.065	-0.279	0.897	4045.949
66	b	129.980	16996.3274530	4045.379	-0.069	-52.475	-0.065	-0.279	0.899	4045.933
67	b	120.000	16996.3426930	4044.873	-0.073	-53.414	-0.062	-0.276	0.902	4045.436
68	b	140.000	16996.3509110	4045.868	-0.075	-51.533	-0.068	-0.282	0.904	4046.422
69	b	130.000	16996.3570070	4045.372	-0.076	-52.473	-0.065	-0.279	0.905	4045.933
70	b	130.000	16996.3614230	4045.372	-0.077	-52.473	-0.065	-0.279	0.906	4045.934
71	b	120.010	16996.3663850	4044.864	-0.079	-53.413	-0.062	-0.276	0.907	4045.432
72	b	110.000	16996.3719700	4044.282	-0.080	-54.354	-0.059	-0.273	0.908	4044.858
73	b	130.000	16996.3785800	4045.372	-0.082	-52.473	-0.065	-0.279	0.909	4045.937
74	b	130.000	16996.3820510	4045.373	-0.084	-52.473	-0.065	-0.279	0.910	4045.939
75	b	119.990	16996.3874970	4044.853	-0.085	-53.415	-0.062	-0.276	0.911	4045.426
76	b	110.000	16996.3931510	4044.279	-0.087	-54.354	-0.059	-0.273	0.913	4044.859
77	b	110.000	16996.3981750	4044.276	-0.088	-54.354	-0.059	-0.273	0.914	4044.857
78	b	100.000	16996.4033950	4043.699	-0.090	-55.294	-0.056	-0.270	0.915	4044.287
79	b	120.000	16996.4106700	4044.860	-0.092	-53.414	-0.062	-0.276	0.916	4045.438
80	b	109.980	16996.4161590	4044.270	-0.094	-54.356	-0.059	-0.273	0.917	4044.855
81	b	109.980	16996.4202980	4044.281	-0.095	-54.356	-0.059	-0.273	0.918	4044.867

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
82	b	100.000	16996.4258820	4043.698	-0.096	-55.294	-0.056	-0.270	0.919	4044.291
83	b	89.990	16996.4313660	4043.126	-0.097	-56.236	-0.052	-0.267	0.921	4043.727
84	b	110.000	16996.4414830	4044.270	-0.099	-54.354	-0.059	-0.273	0.923	4044.860
85	b	110.000	16996.4457060	4044.275	-0.100	-54.354	-0.059	-0.273	0.924	4044.866
86	b	100.000	16996.4538750	4043.703	-0.101	-55.294	-0.056	-0.270	0.925	4044.302
87	b	90.000	16996.4621910	4043.132	-0.102	-56.235	-0.052	-0.267	0.927	4043.740
88	b	90.000	16996.4668970	4043.153	-0.102	-56.235	-0.052	-0.267	0.928	4043.762
89	b	80.000	16996.4733460	4042.584	-0.102	-57.175	-0.048	-0.264	0.929	4043.201
90	b	100.000	16996.4827020	4043.688	-0.101	-55.294	-0.056	-0.270	0.931	4044.293
91	b	90.000	16996.4893370	4043.120	-0.100	-56.235	-0.052	-0.267	0.933	4043.733
92	b	90.000	16996.4949850	4043.146	-0.099	-56.235	-0.052	-0.267	0.934	4043.761
93	b	80.000	16996.5026330	4042.578	-0.097	-57.175	-0.048	-0.264	0.936	4043.201
94	b	69.979	16996.5170970	4042.163	-0.092	-58.117	-0.044	-0.261	0.939	4042.797
95	b	69.979	16996.5222120	4042.172	-0.090	-58.117	-0.044	-0.261	0.940	4042.807
96	b	89.969	16996.5307570	4043.139	-0.086	-56.238	-0.052	-0.267	0.942	4043.761
97	b	79.990	16996.5365860	4042.568	-0.083	-57.176	-0.048	-0.264	0.943	4043.198
98	b	70.000	16996.5426260	4042.128	-0.079	-58.116	-0.044	-0.261	0.944	4042.767
99	b	70.000	16996.5479920	4042.147	-0.075	-58.116	-0.044	-0.261	0.945	4042.788
100	b	60.000	16996.5564010	4041.706	-0.069	-59.056	-0.038	-0.258	0.947	4042.357
101	b	80.000	16996.5654620	4042.561	-0.062	-57.175	-0.048	-0.264	0.949	4043.197
102	b	70.010	16996.5717350	4042.144	-0.056	-58.115	-0.044	-0.261	0.950	4042.790
103	b	70.000	16996.5780790	4042.165	-0.050	-58.116	-0.044	-0.261	0.951	4042.812
104	b	60.000	16996.5831250	4041.699	-0.045	-59.056	-0.038	-0.258	0.953	4042.355
105	b	49.990	16996.5905690	4041.175	-0.038	-59.997	-0.032	-0.255	0.954	4041.842
106	b	70.000	16996.5995810	4042.165	-0.028	-58.116	-0.044	-0.261	0.956	4042.816
107	b	60.010	16996.6059300	4041.704	-0.021	-59.055	-0.038	-0.258	0.957	4042.365
108	b	50.000	16996.6113370	4041.172	-0.015	-59.996	-0.032	-0.255	0.958	4041.843
109	b	50.000	16996.6162580	4041.193	-0.009	-59.996	-0.032	-0.255	0.960	4041.865

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
110	b	40.010	16996.6219450	4040.617	-0.002	-60.936	-0.026	-0.252	0.961	4041.300
111	b	60.000	16996.6360940	4041.699	0.016	-59.056	-0.038	-0.258	0.964	4042.366
112	b	50.010	16996.6420160	4041.162	0.023	-59.995	-0.032	-0.255	0.965	4041.840
113	b	50.010	16996.6471970	4041.189	0.030	-59.995	-0.032	-0.255	0.966	4041.868
114	b	40.000	16996.6534100	4040.600	0.038	-60.937	-0.026	-0.252	0.967	4041.290
115	b	30.010	16996.6628720	4040.167	0.050	-61.876	-0.019	-0.249	0.969	4040.869
116	b	30.010	16996.6672240	4040.195	0.056	-61.876	-0.019	-0.249	0.970	4040.898
118	b	50.010	16996.6805490	4041.187	0.072	-59.995	-0.032	-0.255	0.973	4041.873
119	b	40.031	16996.6912660	4040.601	0.085	-60.934	-0.026	-0.252	0.975	4041.299
120	b	30.000	16996.6994080	4040.157	0.095	-61.877	-0.019	-0.249	0.977	4040.866
121	b	30.000	16996.7047060	4040.180	0.101	-61.877	-0.019	-0.249	0.978	4040.891
122	b	20.000	16996.7214170	4039.623	0.119	-62.817	-0.011	-0.246	0.982	4040.348
123	b	40.000	16996.7343420	4040.587	0.131	-60.937	-0.026	-0.252	0.984	4041.294
124	b	30.010	16996.7445860	4040.141	0.139	-61.876	-0.019	-0.249	0.987	4040.860
125	b	30.010	16996.7493420	4040.165	0.142	-61.876	-0.019	-0.249	0.988	4040.885
126	b	19.979	16996.7566660	4039.609	0.147	-62.819	-0.011	-0.246	0.989	4040.341
127	b	9.990	16996.7730590	4039.154	0.156	-63.758	-0.004	-0.243	0.993	4039.900
128	b	30.000	16996.7819010	4040.167	0.159	-61.877	-0.019	-0.249	0.994	4040.894
129	b	20.000	16996.7884720	4039.603	0.161	-62.817	-0.011	-0.246	0.996	4040.342
130	b	10.000	16996.7963650	4039.153	0.162	-63.758	-0.004	-0.243	0.997	4039.904
131	b	10.000	16996.8016040	4039.162	0.162	-63.758	-0.004	-0.243	0.999	4039.914
132	b	0.313	16996.8174760	4038.713	0.161	-64.668	0.020	-0.240	1.002	4039.495
133	b	20.000	16996.8295290	4039.594	0.158	-62.817	-0.011	-0.246	1.004	4040.341
134	b	10.000	16996.8374890	4039.150	0.155	-63.758	-0.004	-0.243	1.006	4039.910
135	b	10.000	16996.8415160	4039.154	0.153	-63.758	-0.004	-0.243	1.007	4039.914
137	b	0.000	16996.8522680	4038.706	0.147	-64.698	0.021	-0.240	1.009	4039.496
138	b	10.000	16996.8602690	4039.152	0.142	-63.758	-0.004	-0.243	1.011	4039.916
139	b	0.000	16996.8687390	4038.700	0.135	-64.698	0.021	-0.240	1.013	4039.494

Table 6: C4997 continued

Reading number	File ID	Reading depth (ft)	Reading time (days)	log gravity (mGals)	Tidal corr (mGals)	Free-air corr (mGals)	Near-zone TC (mGals)	Mid-far zone TC (mGals)	Drift corr(mGals)	Corrected gravity (mGals)
140	b	0.000	16996.8721590	4038.700	0.133	-64.698	0.021	-0.240	1.013	4039.494

Appendix: B Inversion density tables

The inversion results for each well are presented in the following tables. The columns are:

depth: the station depth in feet, relative to the wellhead.

$\bar{g}$**:** the observed mean gravity at the station, in milliGals.

$\hat{g}$**:** the calculated gravity at the station from the inversion model, in milliGals.

σ_g**:** the standard deviation of the observed gravity at the station, in milliGals.

Z-score: the standardized error of the inversion fit (dimensionless).

density: interval density calculated by the inversion, in g/cm^3 .

σ **density:** the formal uncertainty of the interval density calculated by the inversion, in g/cm^3 .

B.1 C4993

Table 7: Well C4993 Inversion densities

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
10.0	4038.813	4038.870	0.008	-6.9		
					1.956	0.021
20.0	4039.285	4039.310	0.014	-1.8		
					1.714	0.019
30.0	4039.809	4039.812	0.009	-0.4		
					1.623	0.018
40.0	4040.380	4040.338	0.012	3.6		
					2.383	0.018
50.0	4040.579	4040.669	0.017	-5.4		
					1.295	0.018
60.0	4041.290	4041.278	0.012	0.9		
					1.525	0.018
70.0	4041.846	4041.829	0.018	1.0		
					1.708	0.017
80.0	4042.330	4042.332	0.004	-0.4		
					1.517	0.014
90.0	4042.885	4042.885	0.010	-0.0		
					1.509	0.014
100.0	4043.444	4043.440	0.004	1.1		
					2.061	0.013
110.0	4043.844	4043.853	0.009	-1.1		
					1.696	0.014

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
120.0	4044.358	4044.360	0.006	-0.3		
					1.610	0.015
130.0	4044.888	4044.889	0.010	-0.0		
					1.597	0.015
140.0	4045.423	4045.420	0.006	0.5		
					1.761	0.014
150.0	4045.910	4045.910	0.010	-0.0		
					1.760	0.015
160.0	4046.404	4046.401	0.006	0.4		
					1.893	0.014
170.0	4046.856	4046.857	0.008	-0.1		
					1.832	0.013
180.0	4047.335	4047.330	0.005	1.1		
					2.291	0.014
190.0	4047.684	4047.684	0.012	-0.1		
					2.276	0.016
200.0	4048.034	4048.043	0.007	-1.2		
					1.945	0.015
210.0	4048.492	4048.486	0.008	0.7		
					2.237	0.014
220.0	4048.853	4048.855	0.007	-0.2		
					2.186	0.014
230.0	4049.231	4049.236	0.008	-0.7		
					1.858	0.013
240.0	4049.703	4049.702	0.005	0.3		
					1.976	0.014
250.0	4050.125	4050.136	0.009	-1.2		
					1.559	0.012
260.0	4050.679	4050.679	0.002	0.3		
					1.862	0.010
270.0	4051.151	4051.143	0.007	1.2		
					2.384	0.017
280.0	4051.467	4051.474	0.015	-0.5		
					2.319	0.018
290.0	4051.810	4051.821	0.008	-1.5		
					1.948	0.016
300.0	4052.283	4052.264	0.009	2.1		
					2.709	0.014
310.0	4052.507	4052.512	0.005	-1.0		

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.358	0.015
320.0	4052.853	4052.849	0.008	0.5		
					2.495	0.014
330.0	4053.150	4053.152	0.004	-0.3		
					2.364	0.015
340.0	4053.486	4053.488	0.011	-0.2		
					2.316	0.017
350.0	4053.864	4053.836	0.010	2.8		
					2.839	0.015
360.0	4054.048	4054.050	0.003	-1.0		
					2.115	0.012
370.0	4054.464	4054.450	0.007	2.0		
					2.687	0.013
380.0	4054.703	4054.704	0.005	-0.0		
					2.674	0.009
390.0	4054.961	4054.960	0.003	0.2		
					2.800	0.011
400.0	4055.186	4055.185	0.005	0.1		
					2.858	0.016
410.0	4055.395	4055.395	0.010	-0.0		
					2.860	0.016
420.0	4055.604	4055.604	0.005	0.1		
					2.890	0.014
430.0	4055.804	4055.806	0.010	-0.1		
					2.846	0.014
440.0	4056.019	4056.018	0.005	0.0		
					2.869	0.014
450.0	4056.225	4056.225	0.007	-0.1		
					2.852	0.017
460.0	4056.437	4056.436	0.011	0.0		
					2.858	0.017
470.0	4056.637	4056.646	0.006	-1.4		
					2.445	0.013
480.0	4056.955	4056.961	0.006	-1.0		
					1.803	0.016
490.0	4057.440	4057.441	0.011	-0.1		
					1.796	0.016
500.0	4057.922	4057.922	0.007	-0.0		
					1.784	0.011

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
510.0	4058.408	4058.407	0.004	0.4		
					1.981	0.010
520.0	4058.839	4058.841	0.005	-0.4		
					1.754	0.008
530.0	4059.332	4059.332	0.002	0.1		
					1.819	0.007
540.0	4059.809	4059.808	0.004	0.3		
					2.121	0.013
550.0	4060.218	4060.207	0.008	1.5		
					2.505	0.017
560.0	4060.519	4060.506	0.011	1.2		
					2.727	0.016
570.0	4060.750	4060.750	0.007	0.1		
					2.762	0.012
580.0	4060.985	4060.984	0.005	0.1		
					2.821	0.014
590.0	4061.203	4061.203	0.007	-0.1		
					2.802	0.017
600.0	4061.430	4061.427	0.009	0.3		
					2.846	0.016
610.0	4061.641	4061.641	0.004	0.1		
					2.901	0.016
620.0	4061.837	4061.839	0.014	-0.2		
					2.868	0.016
630.0	4062.046	4062.046	0.006	0.0		
					2.871	0.017
640.0	4062.251	4062.253	0.012	-0.1		
					2.853	0.018
650.0	4062.459	4062.464	0.016	-0.3		
					2.819	0.018
660.0	4062.685	4062.683	0.012	0.1		
					2.839	0.017
670.0	4062.899	4062.898	0.004	0.2		
					2.911	0.014
680.0	4063.093	4063.094	0.012	-0.1		
					2.871	0.016
690.0	4063.301	4063.301	0.008	0.0		
					2.882	0.016
700.0	4063.503	4063.505	0.007	-0.2		

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.826	0.016
710.0	4063.716	4063.722	0.007	-0.9		
					2.584	0.016
720.0	4063.987	4064.003	0.010	-1.6		
					2.184	0.016
730.0	4064.380	4064.385	0.008	-0.5		
					1.978	0.015
740.0	4064.824	4064.820	0.008	0.5		
					2.097	0.015
750.0	4065.229	4065.224	0.007	0.7		
					2.449	0.011
760.0	4065.540	4065.538	0.004	0.5		
					2.682	0.010
770.0	4065.794	4065.793	0.004	0.2		
					2.765	0.009
780.0	4066.027	4066.027	0.003	-0.0		
					2.748	0.007
790.0	4066.265	4066.265	0.002	0.1		
					2.836	0.011
800.0	4066.479	4066.480	0.008	-0.1		
					2.782	0.013
810.0	4066.709	4066.709	0.006	0.0		
					2.793	0.011
820.0	4066.936	4066.936	0.002	0.0		
					2.797	0.011
830.0	4067.156	4067.161	0.006	-0.9		
					2.474	0.015
840.0	4067.453	4067.469	0.011	-1.4		
					1.968	0.016
850.0	4067.908	4067.907	0.007	0.1		
					2.012	0.014
860.0	4068.332	4068.333	0.008	-0.1		
					1.970	0.015
870.0	4068.770	4068.769	0.009	0.1		
					2.006	0.015
880.0	4069.196	4069.197	0.009	-0.1		
					1.958	0.012
890.0	4069.637	4069.637	0.004	0.1		
					2.001	0.013

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
900.0	4070.061	4070.066	0.010	-0.5		
					1.814	0.012
910.0	4070.543	4070.543	0.002	-0.1		
					1.755	0.015
920.0	4071.038	4071.035	0.013	0.3		
					1.835	0.018
930.0	4071.539	4071.506	0.014	2.4		
					2.185	0.018
940.0	4071.937	4071.888	0.017	2.9		
					2.518	0.018
950.0	4072.190	4072.185	0.011	0.4		
					2.657	0.016
960.0	4072.446	4072.446	0.007	0.1		
					2.684	0.014
970.0	4072.698	4072.700	0.006	-0.3		
					2.575	0.013
980.0	4072.978	4072.982	0.005	-0.8		
					2.281	0.014
990.0	4073.345	4073.339	0.009	0.7		
					2.535	0.015
1000.0	4073.637	4073.632	0.007	0.7		
					2.737	0.015
1010.0	4073.873	4073.873	0.007	-0.0		
					2.739	0.014
1020.0	4074.113	4074.113	0.006	-0.0		
					2.739	0.013
1030.0	4074.354	4074.353	0.005	0.2		
					2.800	0.015
1040.0	4074.577	4074.578	0.012	-0.1		
					2.788	0.014
1050.0	4074.805	4074.805	0.003	-0.0		
					2.763	0.009
1060.0	4075.040	4075.040	0.003	0.0		
					2.785	0.011
1070.0	4075.269	4075.268	0.005	0.1		
					2.820	0.017
1080.0	4075.486	4075.488	0.021	-0.1		
					2.812	0.016
1090.0	4075.704	4075.709	0.004	-1.1		

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.287	0.014
1100.0	4076.057	4076.065	0.008	-1.1		
					2.018	0.017
1110.0	4076.490	4076.490	0.015	0.0		
					2.031	0.016
1120.0	4076.911	4076.910	0.006	0.2		
					2.104	0.016
1130.0	4077.311	4077.313	0.012	-0.1		
					2.069	0.017
1140.0	4077.726	4077.725	0.010	0.2		
					2.110	0.017
1150.0	4078.122	4078.126	0.012	-0.3		
					2.011	0.017
1160.0	4078.548	4078.552	0.008	-0.4		
					1.909	0.017
1170.0	4078.999	4079.005	0.013	-0.4		
					1.784	0.017
1180.0	4079.495	4079.490	0.008	0.6		
					1.934	0.018
1190.0	4079.967	4079.936	0.014	2.2		
					2.388	0.018
1200.0	4080.280	4080.266	0.015	0.9		
					2.650	0.016
1210.0	4080.529	4080.529	0.005	0.1		
					2.678	0.013
1220.0	4080.786	4080.785	0.006	0.2		
					2.740	0.013
1230.0	4081.026	4081.025	0.005	0.3		
					2.857	0.016
1240.0	4081.233	4081.235	0.019	-0.1		
					2.835	0.016
1250.0	4081.451	4081.451	0.003	-0.0		
					2.825	0.007
1260.0	4081.670	4081.670	0.002	-0.0		
					2.819	0.009
1270.0	4081.890	4081.889	0.004	0.1		
					2.855	0.012
1280.0	4082.100	4082.100	0.005	0.0		
					2.865	0.016

Table 7: C4993 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
1290.0	4082.313	4082.308	0.013	0.3		
					2.957	0.018
1300.0	4082.493	4082.493	0.020	0.0		
					2.960	0.017
1310.0	4082.676	4082.677	0.004	-0.1		
					2.889	0.012
1320.0	4082.879	4082.879	0.006	-0.1		
					2.871	0.012
1330.0	4083.086	4083.086	0.004	0.0		
					2.880	0.009
1340.0	4083.290	4083.290	0.004	-0.0		
					2.870	0.018
1350.1	4083.470	4083.497	0.025	-1.1		
					2.723	0.017
1360.0	4083.704	4083.740	0.020	-1.9		
					2.542	0.018
1370.0	4084.031	4084.031	0.003	0.1		
					2.595	0.017
1380.0	4084.315	4084.308	0.015	0.4		
					2.655	0.019
1390.0	4084.562	4084.570	0.010	-0.8		

B.2 C4996

Table 8: Well C4996 Inversion densities

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
1.1	4056.030	4056.117	0.015	-5.8		
					2.293	0.016
10.0	4056.397	4056.431	0.010	-3.5		
					1.463	0.017
20.0	4057.046	4056.998	0.024	2.1		
					1.666	0.015
30.0	4057.534	4057.512	0.021	1.0		
					1.744	0.015
40.0	4058.048	4058.007	0.028	1.5		
					1.907	0.017
50.0	4058.443	4058.460	0.012	-1.4		
					1.604	0.016
60.0	4058.980	4058.990	0.015	-0.7		
					1.536	0.016
70.0	4059.540	4059.538	0.011	0.2		
					1.588	0.015
80.0	4060.077	4060.072	0.009	0.5		
					1.696	0.016
90.0	4060.575	4060.579	0.021	-0.2		
					1.668	0.015
100.0	4061.093	4061.093	0.004	0.2		
					1.756	0.014
110.0	4061.588	4061.583	0.010	0.5		
					1.848	0.016
120.0	4062.029	4062.052	0.017	-1.3		
					1.638	0.016
130.0	4062.589	4062.573	0.010	1.5		
					1.863	0.016
140.0	4063.025	4063.037	0.013	-0.9		
					1.669	0.016
150.0	4063.554	4063.552	0.013	0.2		
					1.702	0.015
160.0	4064.058	4064.057	0.007	0.2		
					1.768	0.015
170.0	4064.545	4064.545	0.018	0.0		
					1.775	0.014
180.0	4065.033	4065.031	0.003	0.5		

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.050	0.012
190.0	4065.446	4065.447	0.010	-0.1		
					2.029	0.013
200.0	4065.874	4065.869	0.005	0.9		
					2.316	0.014
210.0	4066.200	4066.218	0.011	-1.5		
					1.956	0.015
220.0	4066.660	4066.658	0.014	0.1		
					1.972	0.015
230.0	4067.094	4067.094	0.001	0.1		
					2.151	0.012
240.0	4067.482	4067.485	0.012	-0.2		
					2.096	0.013
250.0	4067.889	4067.890	0.002	-0.3		
					1.879	0.009
260.0	4068.358	4068.350	0.006	1.3		
					2.510	0.012
270.0	4068.642	4068.648	0.005	-1.2		
					2.170	0.013
280.0	4069.036	4069.034	0.006	0.3		
					2.240	0.016
290.0	4069.417	4069.402	0.023	0.7		
					2.332	0.016
300.0	4069.760	4069.746	0.022	0.6		
					2.400	0.016
310.0	4070.088	4070.072	0.022	0.7		
					2.489	0.017
320.0	4070.379	4070.377	0.015	0.2		
					2.510	0.016
330.0	4070.689	4070.675	0.023	0.6		
					2.560	0.015
340.0	4070.968	4070.962	0.025	0.2		
					2.584	0.016
350.0	4071.242	4071.241	0.017	0.0		
					2.598	0.016
360.0	4071.520	4071.517	0.010	0.3		
					2.711	0.015
370.0	4071.769	4071.765	0.011	0.4		
					2.822	0.015

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
380.0	4071.987	4071.984	0.009	0.3		
					2.940	0.016
390.0	4072.166	4072.173	0.029	-0.2		
					2.918	0.015
400.0	4072.357	4072.367	0.017	-0.6		
					2.869	0.017
410.0	4072.575	4072.574	0.009	0.1		
					2.893	0.017
420.0	4072.775	4072.775	0.014	-0.0		
					2.894	0.016
430.0	4072.977	4072.976	0.019	0.1		
					2.902	0.016
440.0	4073.162	4073.174	0.021	-0.6		
					2.805	0.017
450.0	4073.362	4073.398	0.011	-3.3		
					2.241	0.016
460.0	4073.726	4073.765	0.014	-2.7		
					1.944	0.016
470.0	4074.209	4074.209	0.011	0.0		
					1.956	0.017
480.0	4074.662	4074.648	0.015	0.9		
					2.027	0.015
490.0	4075.080	4075.071	0.041	0.2		
					2.049	0.015
500.0	4075.491	4075.487	0.020	0.2		
					2.071	0.017
510.0	4075.910	4075.898	0.021	0.6		
					2.144	0.017
520.0	4076.324	4076.291	0.016	2.1		
					2.435	0.016
530.0	4076.627	4076.609	0.028	0.7		
					2.491	0.015
540.0	4076.930	4076.912	0.031	0.6		
					2.562	0.016
550.0	4077.215	4077.197	0.017	1.1		
					2.663	0.017
560.0	4077.470	4077.457	0.012	1.1		
					2.769	0.016
570.0	4077.713	4077.689	0.022	1.1		

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.847	0.016
580.0	4077.910	4077.902	0.019	0.4		
					2.882	0.017
590.0	4078.106	4078.106	0.029	0.0		
					2.887	0.017
600.0	4078.302	4078.308	0.027	-0.2		
					2.863	0.016
610.0	4078.511	4078.517	0.029	-0.2		
					2.872	0.016
620.7	4078.738	4078.737	0.012	0.1		
					2.842	0.017
630.0	4078.938	4078.937	0.014	0.1		
					2.894	0.017
640.0	4079.134	4079.137	0.021	-0.1		
					2.863	0.015
650.0	4079.332	4079.346	0.027	-0.5		
					2.836	0.013
660.0	4079.564	4079.561	0.024	0.1		
					2.845	0.015
670.0	4079.774	4079.774	0.004	0.0		
					2.848	0.017
680.0	4079.972	4079.986	0.015	-1.0		
					2.751	0.016
690.0	4080.165	4080.223	0.032	-1.8		
					2.586	0.015
700.0	4080.420	4080.503	0.020	-4.2		
					2.269	0.017
710.0	4080.852	4080.864	0.010	-1.1		
					2.152	0.017
720.0	4081.276	4081.253	0.020	1.2		
					2.357	0.016
730.0	4081.629	4081.591	0.022	1.7		
					2.481	0.016
740.0	4081.921	4081.897	0.015	1.5		
					2.674	0.017
750.0	4082.161	4082.154	0.011	0.6		
					2.784	0.017
760.0	4082.381	4082.383	0.016	-0.1		
					2.777	0.017

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
770.0	4082.616	4082.613	0.016	0.2		
					2.795	0.016
780.0	4082.845	4082.839	0.022	0.2		
					2.815	0.016
790.0	4083.061	4083.060	0.029	0.0		
					2.818	0.017
800.0	4083.273	4083.280	0.015	-0.4		
					2.777	0.016
810.0	4083.469	4083.511	0.025	-1.7		
					2.579	0.017
820.0	4083.770	4083.792	0.008	-2.8		
					2.036	0.016
830.0	4084.212	4084.211	0.013	0.0		
					2.040	0.016
840.0	4084.630	4084.631	0.013	-0.0		
					2.039	0.016
850.0	4085.048	4085.050	0.021	-0.1		
					2.006	0.016
860.0	4085.474	4085.478	0.014	-0.3		
					1.943	0.016
870.0	4085.920	4085.921	0.022	-0.1		
					1.919	0.016
880.0	4086.364	4086.371	0.014	-0.5		
					1.806	0.017
890.0	4086.857	4086.850	0.028	0.2		
					1.874	0.017
900.0	4087.337	4087.311	0.020	1.3		
					2.113	0.017
910.0	4087.751	4087.711	0.021	1.9		
					2.469	0.017
920.0	4088.039	4088.021	0.020	0.9		
					2.640	0.016
930.0	4088.292	4088.286	0.025	0.2		
					2.668	0.016
940.0	4088.544	4088.544	0.008	0.0		
					2.677	0.016
950.0	4088.804	4088.801	0.012	0.3		
					2.720	0.015
960.0	4089.045	4089.046	0.004	-0.2		

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.691	0.015
970.0	4089.279	4089.298	0.015	-1.3		
					2.421	0.014
980.0	4089.620	4089.620	0.003	0.0		
					2.448	0.015
990.0	4089.927	4089.935	0.012	-0.6		
					2.394	0.016
1000.0	4090.271	4090.263	0.012	0.7		
					2.478	0.016
1010.0	4090.581	4090.570	0.018	0.6		
					2.535	0.016
1020.0	4090.867	4090.862	0.011	0.4		
					2.650	0.013
1030.0	4091.126	4091.125	0.004	0.1		
					2.710	0.013
1040.0	4091.372	4091.373	0.011	-0.1		
					2.676	0.014
1050.0	4091.627	4091.630	0.006	-0.4		
					2.586	0.014
1060.0	4091.887	4091.909	0.008	-2.7		
					2.064	0.016
1070.0	4092.324	4092.322	0.013	0.1		
					2.094	0.016
1080.0	4092.728	4092.727	0.011	0.1		
					2.114	0.015
1090.0	4093.126	4093.127	0.007	-0.2		
					2.069	0.015
1100.0	4093.537	4093.539	0.009	-0.1		
					2.050	0.016
1110.0	4093.957	4093.955	0.010	0.2		
					2.077	0.016
1120.0	4094.359	4094.364	0.012	-0.5		
					1.973	0.016
1130.0	4094.795	4094.800	0.007	-0.7		
					1.866	0.017
1140.0	4095.273	4095.263	0.021	0.5		
					1.902	0.015
1150.0	4095.773	4095.717	0.026	2.2		
					2.028	0.015

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
1160.0	4096.220	4096.140	0.018	4.4		
					2.501	0.017
1170.0	4096.474	4096.441	0.022	1.5		
					2.633	0.015
1180.0	4096.718	4096.709	0.023	0.4		
					2.661	0.016
1190.0	4096.977	4096.969	0.012	0.7		
					2.736	0.017
1200.0	4097.211	4097.210	0.014	0.1		
					2.752	0.016
1210.0	4097.451	4097.447	0.012	0.3		
					2.831	0.015
1220.0	4097.664	4097.664	0.006	-0.0		
					2.825	0.012
1230.0	4097.883	4097.882	0.004	0.1		
					2.864	0.009
1240.0	4098.091	4098.091	0.003	0.0		
					2.891	0.013
1250.0	4098.292	4098.292	0.009	0.0		
					2.895	0.016
1260.0	4098.491	4098.493	0.017	-0.1		
					2.885	0.016
1270.0	4098.695	4098.695	0.007	-0.1		
					2.864	0.014
1280.0	4098.904	4098.904	0.007	0.1		
					2.877	0.014
1290.0	4099.108	4099.109	0.007	-0.2		
					2.835	0.014
1300.0	4099.324	4099.325	0.011	-0.0		
					2.830	0.013
1310.0	4099.541	4099.542	0.005	-0.2		
					2.743	0.015
1320.0	4099.757	4099.781	0.015	-1.6		
					2.423	0.016
1330.0	4100.109	4100.102	0.016	0.4		
					2.531	0.014
1340.0	4100.397	4100.396	0.002	0.2		
					2.634	0.010
1350.0	4100.666	4100.663	0.008	0.3		

Table 8: C4996 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.769	0.011
1360.0	4100.896	4100.896	0.006	0.1		
					2.806	0.015
1370.0	4101.115	4101.119	0.016	-0.3		
					2.750	0.016
1380.0	4101.346	4101.356	0.013	-0.8		
					2.567	0.016
1390.0	4101.642	4101.641	0.012	0.1		
					2.579	0.017
1400.0	4101.930	4101.922	0.010	0.8		
					2.697	0.017
1410.0	4102.177	4102.173	0.022	0.2		
					2.727	0.017
1419.9	4102.413	4102.414	0.017	-0.1		
					2.726	0.017
1430.0	4102.671	4102.660	0.020	0.6		
					2.770	0.016
1440.0	4102.888	4102.892	0.021	-0.2		
					2.757	0.017
1450.0	4103.095	4103.128	0.015	-2.2		

B.3 C4997

Table 9: Well C4997 Inversion densities

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
0.1	4039.495	4039.495	0.001	-0.3		
					2.037	0.009
10.0	4039.910	4039.911	0.007	-0.2		
					1.979	0.010
20.0	4040.343	4040.346	0.003	-0.8		
					1.695	0.012
30.0	4040.880	4040.853	0.015	1.8		
					1.920	0.013
40.0	4041.295	4041.303	0.005	-1.6		
					1.574	0.013
50.0	4041.855	4041.840	0.015	1.0		
					1.678	0.013
60.0	4042.361	4042.352	0.006	1.6		
					1.979	0.013
70.0	4042.797	4042.786	0.017	0.7		
					2.053	0.012
80.0	4043.200	4043.201	0.002	-0.9		
					1.539	0.012
90.0	4043.747	4043.748	0.016	-0.1		
					1.536	0.013
100.0	4044.294	4044.296	0.006	-0.4		
					1.470	0.011
110.0	4044.860	4044.860	0.005	-0.0		
					1.463	0.010
120.0	4045.433	4045.427	0.005	1.1		
					1.689	0.013
130.0	4045.941	4045.935	0.010	0.5		
					1.786	0.014
140.0	4046.430	4046.420	0.013	0.8		
					1.854	0.013
150.0	4046.838	4046.886	0.015	-3.3		
					1.441	0.013
160.0	4047.466	4047.458	0.005	1.7		
					1.825	0.011
170.0	4047.937	4047.932	0.007	0.7		
					2.021	0.011
180.0	4048.353	4048.356	0.005	-0.5		

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					1.916	0.011
190.0	4048.808	4048.806	0.007	0.3		
					2.015	0.012
200.0	4049.226	4049.231	0.007	-0.7		
					1.893	0.012
210.0	4049.695	4049.688	0.006	1.2		
					2.096	0.012
220.0	4050.091	4050.092	0.008	-0.2		
					2.055	0.013
230.0	4050.487	4050.507	0.015	-1.3		
					1.869	0.012
240.0	4050.973	4050.969	0.005	0.7		
					2.279	0.009
250.0	4051.321	4051.327	0.004	-1.5		
					1.936	0.011
260.0	4051.772	4051.772	0.007	0.0		
					1.941	0.012
270.0	4052.231	4052.216	0.007	2.1		
					2.265	0.011
280.0	4052.577	4052.578	0.002	-0.5		
					2.096	0.011
290.0	4052.992	4052.983	0.009	1.0		
					2.282	0.013
300.0	4053.360	4053.340	0.012	1.7		
					2.428	0.012
310.0	4053.657	4053.659	0.002	-0.7		
					2.140	0.011
320.0	4054.075	4054.053	0.010	2.1		
					2.472	0.011
330.0	4054.361	4054.361	0.001	-0.0		
					2.447	0.009
340.0	4054.675	4054.676	0.005	-0.1		
					2.431	0.011
350.0	4054.994	4054.995	0.007	-0.1		
					2.395	0.013
360.0	4055.344	4055.323	0.012	1.7		
					2.548	0.013
370.0	4055.608	4055.612	0.005	-0.9		
					2.348	0.011

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
380.0	4055.956	4055.952	0.007	0.6		
					2.523	0.012
390.0	4056.250	4056.247	0.007	0.4		
					2.588	0.013
400.0	4056.533	4056.526	0.007	1.0		
					2.744	0.012
410.0	4056.770	4056.765	0.006	0.8		
					2.879	0.011
420.0	4056.969	4056.970	0.005	-0.1		
					2.844	0.008
430.0	4057.183	4057.183	0.003	0.0		
					2.862	0.010
440.0	4057.391	4057.392	0.005	-0.1		
					2.850	0.011
450.0	4057.604	4057.604	0.005	0.1		
					2.872	0.011
460.0	4057.811	4057.810	0.005	0.2		
					2.914	0.009
470.0	4058.006	4058.005	0.003	0.1		
					2.949	0.008
480.0	4058.191	4058.192	0.004	-0.3		
					2.845	0.008
490.0	4058.400	4058.405	0.003	-1.8		
					2.181	0.006
500.0	4058.788	4058.788	0.001	-0.4		
					1.853	0.007
510.0	4059.255	4059.254	0.005	0.0		
					1.865	0.012
520.0	4059.723	4059.718	0.014	0.3		
					1.895	0.012
530.0	4060.174	4060.174	0.003	0.1		
					1.940	0.010
540.0	4060.617	4060.618	0.007	-0.2		
					1.904	0.011
550.0	4061.073	4061.072	0.006	0.2		
					1.958	0.009
560.0	4061.514	4061.512	0.003	0.6		
					2.207	0.010
570.0	4061.894	4061.888	0.006	1.0		

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.387	0.013
580.0	4062.226	4062.218	0.013	0.6		
					2.479	0.012
590.0	4062.529	4062.525	0.004	1.0		
					2.727	0.012
600.0	4062.771	4062.769	0.007	0.4		
					2.786	0.013
610.0	4062.998	4062.997	0.007	0.2		
					2.823	0.012
620.0	4063.217	4063.215	0.005	0.3		
					2.884	0.013
630.0	4063.417	4063.419	0.011	-0.2		
					2.848	0.013
640.0	4063.630	4063.631	0.008	-0.1		
					2.837	0.012
650.0	4063.847	4063.846	0.004	0.0		
					2.850	0.009
660.0	4064.058	4064.058	0.003	0.0		
					2.858	0.011
670.0	4064.270	4064.268	0.006	0.2		
					2.893	0.013
680.0	4064.467	4064.469	0.011	-0.2		
					2.881	0.013
690.0	4064.670	4064.673	0.010	-0.3		
					2.839	0.012
700.0	4064.888	4064.888	0.004	0.0		
					2.848	0.012
710.0	4065.102	4065.100	0.008	0.2		
					2.874	0.013
720.0	4065.306	4065.306	0.007	-0.0		
					2.872	0.013
730.0	4065.500	4065.512	0.010	-1.2		
					2.694	0.011
740.0	4065.763	4065.764	0.001	-0.8		
					2.108	0.010
750.0	4066.162	4066.165	0.006	-0.6		
					2.011	0.012
760.0	4066.601	4066.592	0.008	1.1		
					2.229	0.010

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
770.0	4066.963	4066.962	0.002	0.6		
					2.655	0.007
780.0	4067.225	4067.224	0.003	0.2		
					2.720	0.008
790.0	4067.469	4067.469	0.003	0.2		
					2.781	0.011
800.0	4067.699	4067.699	0.009	0.0		
					2.792	0.013
810.0	4067.925	4067.925	0.008	-0.1		
					2.784	0.012
820.0	4068.153	4068.154	0.005	-0.2		
					2.743	0.011
830.0	4068.394	4068.393	0.005	0.2		
					2.784	0.012
840.0	4068.622	4068.622	0.007	-0.0		
					2.783	0.012
850.0	4068.834	4068.851	0.008	-2.0		
					2.356	0.011
860.0	4069.185	4069.189	0.003	-1.0		
					1.994	0.011
870.0	4069.624	4069.620	0.010	0.4		
					2.075	0.011
880.0	4070.029	4070.030	0.002	-0.1		
					2.045	0.011
890.0	4070.444	4070.448	0.010	-0.4		
					1.978	0.011
900.0	4070.882	4070.882	0.003	-0.1		
					1.957	0.013
910.0	4071.308	4071.322	0.014	-1.0		
					1.850	0.013
920.0	4071.784	4071.790	0.012	-0.5		
					1.810	0.013
930.0	4072.266	4072.268	0.004	-0.4		
					1.688	0.010
940.0	4072.780	4072.777	0.005	0.5		
					1.826	0.011
950.0	4073.262	4073.250	0.006	1.9		
					2.311	0.010
960.0	4073.603	4073.600	0.003	1.0		

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.631	0.007
970.0	4073.869	4073.868	0.002	0.1		
					2.677	0.012
980.0	4074.125	4074.124	0.009	0.1		
					2.700	0.013
990.0	4074.373	4074.374	0.011	-0.1		
					2.684	0.014
1000.0	4074.618	4074.629	0.007	-1.6		
					2.507	0.014
1010.0	4074.918	4074.928	0.010	-1.1		
					2.366	0.013
1020.0	4075.278	4075.264	0.015	1.0		
					2.439	0.013
1030.0	4075.582	4075.581	0.003	0.5		
					2.612	0.007
1040.0	4075.854	4075.854	0.003	0.2		
					2.695	0.013
1050.0	4076.108	4076.105	0.010	0.3		
					2.723	0.012
1060.0	4076.337	4076.349	0.026	-0.5		
					2.695	0.012
1070.0	4076.599	4076.601	0.007	-0.2		
					2.669	0.013
1080.0	4076.860	4076.859	0.006	0.3		
					2.708	0.014
1090.0	4077.105	4077.107	0.012	-0.2		
					2.694	0.014
1100.0	4077.329	4077.359	0.016	-1.9		
					2.540	0.014
1110.0	4077.570	4077.650	0.016	-5.1		
					2.205	0.014
1120.0	4078.006	4078.027	0.019	-1.1		
					2.128	0.012
1130.0	4078.399	4078.423	0.031	-0.8		
					2.084	0.013
1140.0	4078.837	4078.831	0.012	0.5		
					2.130	0.015
1150.0	4079.225	4079.227	0.014	-0.1		
					2.117	0.012

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
1160.0	4079.612	4079.626	0.021	-0.7		
					2.084	0.012
1170.0	4080.032	4080.034	0.006	-0.4		
					1.977	0.013
1180.0	4080.462	4080.469	0.015	-0.5		
					1.937	0.013
1190.0	4080.913	4080.915	0.010	-0.2		
					1.898	0.014
1200.0	4081.402	4081.370	0.015	2.1		
					2.075	0.013
1210.0	4081.833	4081.780	0.015	3.5		
					2.496	0.014
1220.0	4082.090	4082.083	0.009	0.8		
					2.601	0.013
1230.0	4082.362	4082.358	0.006	0.6		
					2.706	0.013
1240.0	4082.611	4082.607	0.007	0.6		
					2.793	0.013
1250.0	4082.836	4082.833	0.020	0.1		
					2.812	0.013
1260.0	4083.055	4083.056	0.007	-0.1		
					2.795	0.013
1270.0	4083.282	4083.281	0.007	0.1		
					2.821	0.011
1280.0	4083.501	4083.500	0.004	0.1		
					2.858	0.008
1290.0	4083.710	4083.710	0.001	0.2		
					2.980	0.012
1300.0	4083.885	4083.889	0.022	-0.2		
					2.967	0.012
1310.0	4084.068	4084.071	0.006	-0.5		
					2.886	0.011
1320.0	4084.274	4084.273	0.004	0.1		
					2.908	0.012
1330.0	4084.466	4084.470	0.011	-0.3		
					2.879	0.012
1340.0	4084.676	4084.675	0.004	0.1		
					2.914	0.013
1350.0	4084.870	4084.870	0.008	-0.1		

Table 9: C4997 continued

depth (feet)	$\bar{g}$ (mGals)	$\hat{g}$ (mGals)	σ_g (mGals)	Z-score	density (g/cm^3)	σ density (g/cm^3)
					2.909	0.013
1360.0	4085.052	4085.067	0.019	-0.8		
					2.845	0.013
1370.0	4085.271	4085.280	0.005	-1.8		
					2.491	0.012
1380.0	4085.587	4085.584	0.006	0.5		
					2.596	0.013
1390.0	4085.868	4085.861	0.012	0.5		
					2.644	0.013
1400.0	4086.123	4086.126	0.004	-0.6		

Appendix: C Field operations

C.1 Equipment

The equipment used was BHGM Serial Number 14 (#14) with the Shuttle Sonde, its associated electronics, standard field setup equipment, and spares. The logging was done from a COLOG wireline truck using a 5/16" diameter cable and a GOI, 7 pin, small cablehead with the MGL depth encoder system attached. A natural gamma tool provided information to tie BHGM survey depths to COLOG gamma-gamma density logging runs. PNNL/Energy Solutions provided a mast truck to support the tool and cable in the wells.

C.2 Mobilization

Testing was performed at the end of October at COLOG in Lakewood, Colorado with winch truck, cable, cablehead and adapter, depth system, and BHGM equipment to make sure any compatibility issues were worked out before the truck and equipment were sent to Hanford. Minor cablehead and depth system problems were encountered and solved.

The freight was sent from MGL, Lafayette, Colorado to PNNL, Hanford, Washington on November 3rd,2006.

The Micro-g Lacoste field personnel were Ryan Albery, Andy Black, and Ethan Mann. Andy and Ethan flew to Portland, Oregon, then drove to Hanford, Washington. Ryan drove from Lafayette to Hanford. The MGL crew arrived in Hanford, Washington on November 10th, 2006. The freight was visually checked and appeared undamaged. The PNNL freight office also checked the equipment with a radiation detector before trucking it out to the W.T.P. site. The gravity meter was run and checked out at the PNNL Guest House that night.

The MGL crew met with Alan Rohay and Tom Brouns early on November 11th before proceeding to the WTP site. After arriving at the site a safety and orientation class was attended by all MGL personnel, followed by a tour of the three well locations on the WTP site. Then the rig-up on the first site, well C4996, started.

C.3 C4996

A problem with the wireline cablehead occurred (the cable lines shorted out) during truck checkout and was repaired. At 13:00 (all times are local time) the Shuttle tool went into the well. There was a problem with the depth measuring system, but after some checking and rebooting the computer the problem was resolved and the tool was lowered to the bottom of casing (340 feet). Calibrations started at 17:50 and were finished at 22:00. When attempting to move downhole, the depth system failed again. The MGL team spent that night trying to solve the problem. The meter was pulled out of the well on Nov. 13th. The problem appeared to be software related. The manufacturer of depth interface system was contacted but no immediate solution was found. The manufacturer continued to work with MGL personnel on the problem until the problem was solved. On Nov. 14th it was decided to revert to an older version of the software (B5) for the depth system. A Win98 computer was acquired to run the older version of the software, which was not compatible withe newer operating systems. With

the older software version, the system was working on Nov. 15th, and the crew went back out to the WTP site.

Well C4996 was re-entered for second time at 21:30 Nov. 15th. Calibration checks were run at 340 feet and finished up at 00:30 on Nov. 16th. A natural gamma ray depth tie was run to calibrate the BHGM depth to the COLOG gamma-gamma compensated density log. The tool was then lowered to the bottom station at 1450 feet. Two readings were made, then the Shuttle winch was moved to the bottom station (1458 feet) and a good reading was made. At that time the Shuttle winch failed to move the sensor up to the zero position. The tool was pulled out of the well and it was determined that problem was electronic, not mechanical. The problem may have been caused by the cablehead problem mentioned earlier (shorted cable lines). The MGL team checked out the Shuttle control electronics, and the winch controller was replaced with a spare. At this point, the winch worked on the test bench. It was decided to rig-up and go back into the hole. Further testing of the Shuttle winch downhole near the surface caused the same problem to re-occur. The tool was then pulled out of well and the Shuttle winch controller was checked again on the bench in the office. The same failure mode as seen before occurred again. The Shuttle winch controller was again replaced (with the last spare). Testing managed to re-create the problem on the bench again this time, but further troubleshooting did not identify the cause of the problem.

On Nov. 16th, after talking with the MGL home office, Alan Rohay and Tom Brouns of PNNL were presented with three choices:

1. Send the MGL people and equipment back to Denver for repairs, and return when fixed.

2. Have the crew wait in Hanford for more spare parts and then do further detailed troubleshooting.

3. Continue the survey with non-Shuttle survey techniques. This would entail relying on moving the surface truck winch for depth control. This is not as accurate as the Shuttle depth control, but it should be reasonable considering how shallow these wells are.

The MGL head office in Lafayette did an error analysis and concluded that the error budget can still be under 0.05 g/cm^3 , which will meet PNNL's objectives. It was also decided that 10 foot intervals would be better for this survey, as they lessen the effects of depth errors while still meeting the modeling requirements of PNNL.

PNNL gave permission to run the altered survey plan using 10 foot intervals, the surface odometer, and the winch for depth control.

On Nov. 17th, the MGL crew arrived on the WTP site and was rigged up and ready to start downhole at 08:30. Calibrations were performed again at 351 feet. The tool went to bottom of well after checking gamma depth ties at 1108 feet and 1130 feet. The gamma peaks were off 1.7 feet, and a correction was made to the BHGM depth. These are reasonable corrections for a survey of this depth. The gravity survey started at 1450 feet and station readings were made every 10 feet. The procedure used was as follows:

1. move 10 feet on the odometer

2. mark the cable at the odometer with tape

3. level the gravity sensor

4. unclamp the sensor

5. take a 4-5 minute reading, recording data at 1 second intervals

6. log the gravity value using a 20 second filter at the 4 minute mark.

The software used to record gravity data was BCON.EXE, ver.1.39.4. The first data file name was C4996B.DAT. Depths were entered by hand from another computer running B5.EXE. All pertinent information was also recorded by hand in a field book as a backup to the computer data. Notes were written in the field book at each station. In well C4996 groups of 5 stations (depths) were recorded, then the meter was lowered at least 50 feet below the starting station, then pulled back up to the first station depth. This group was looped 4 times through, then the meter was moved up to start the next section. On the repeated measurements the offset to the taped mark on the cable was noted for later depth adjustments.

At 1120 feet on Nov. 18th it was discovered that the polymer mud used in this well was glueing itself to the measurement wheels on the depth system, causing depth errors in the 10 foot measurements. The PNNL staff was consulted about the presence of this mud in the other wells to be logged and MGL was assured it would not be present in the other wells. All the previous 10 foot intervals were re-measured by hand using a tape and noted in field book. These depth offsets were used to calculate corrected depths before final processing. From then on all 10 foot depth intervals were measured out with a tape measure and marked on the cable with either tape or paint and the electronic depth system was used only as a check. The winch operator was told to stop when the next 10' mark reached the depth head on the wireline truck. Surface depth errors were usually kept below $1/2$ inch using this method. Occasional gamma ray depth ties were performed near log peaks to check the depth measurement errors. Most depth mis-ties noted with this system were under 1 foot and usually only $1/2$ foot which is very close to the resolution of the logs used.

A new data file, C4996C.DAT was started at 840 feet on Nov. 20th. The tool was then logged to the surface. Next, it was sent back down to redo some sections to check on repeatability. At 350 feet at 20:00 on Nov. 24th there was a leveling motor (rotate) problem. The tool was pulled out of the well. The motor problem was fixed and the tool went back into well at 22:30 on Nov. 24

Calibrations were done again, and a new data file C4996D.DAT was started. The depth intervals 380-350 feet, 1380-1350 feet ,1330-1300 feet,920-840 feet, and 640-590 feet were repeated. Then the tool was pulled out of the well and the truck rigged down at 12:00 on Nov.26th .

C.4 C4997

The equipment was then moved to well C4997. At 17:00 , Nov. 26th, rig-up started and the tool was at a calibration station near the bottom of the casing (320 feet) at 20:10. After finishing calibrations the tool was lowered in the well. It hung up at 902 feet despite multiple tries. The tool was pulled from the well at 03:45 on Nov. 27th, and a wiper trip was made.

On Nov. 28th the well was re-entered by the BHGM tool at 13:00. After calibrations it was discovered that the gamma tool was not functioning properly. The tool was pulled out of the well and the gamma tool repaired. At 17:30 the BHGM tool was put back into the well. Calibrations were performed and then a gamma tie was made at 19:30 using a peak at 1114 feet . The first station was recorded at 23:30 at 1400 feet, to data file C4997A.DAT. In this well it was decided to interleave the repeat loops - each loop steps up by one depth interval. Early in the run it was noticed that the long level was more sensitive than normal so the level value was checked at every reading. The logging went well until 19:00 on Dec 2nd . when the long level motor failed at 220 feet. The tool was pulled out and the motor fixed. The tool went back into the well around 23:00.

Calibrations were performed again and also a gamma depth tie. The data was recorded to file C4997B.DAT. The logging went well to the surface. The last station was read at 01:00 on Dec. 4th, at the surface. The equipment was rigged down and moved to well C4993.

It was decided that some routine maintenance should be performed on BHGM #14 along with replacing the long level sensor before starting the next survey. Replacing the long level sensor would eliminate having to check the long level setting every reading as was done in C4997. Dec 4th was spent doing this and checking out the meter afterwards.

C.5 C4993

The next day, Dec. 5th, the tool was rigged up and went into the well at 09:10. Calibrations were run near the bottom of the casing and the new Long level appeared to be working perfectly. A gamma ray depth tie was performed using peaks at at 410 feet and 1150 feet. The first reading was made at 1390 foot and recorded to file C4993A.DAT. At reading #32 a new data file was started (C4993B.DAT) and logging proceeded until 1290 feet at 00:30 on Dec. 6th, when the winch drum brake began slipping. The brake cable was replaced and logging re-started at 04:00. Recordings went well until 880 feet at 11:00 on Dec. 7th when the sensor rotate motor failed. The tool was pulled out of the hole and the rotate motor problem was fixed. It was also noted at this time that there was larger than expected leakage between the cable lines and this was repaired also.

The tool was rigged up again at 14:00 and went back into the well. Calibrations were done again partway down the well. A Gamma tie was performed using a peak at 890 feet, then logging started at 900 feet to data file C4993C.DAT. Readings proceeded well and the surface was reached at 04:10 on Dec. 10th . The tool was lowered back down to check measurements at 70 feet - 40 feet and this data was recorded in data file C4993D.DAT. The tool was pulled out of the well at 06:45 on Dec. 10th , 2006.

C.6 De-mobilization

Ryan Albery left the WTP site at this time. Later in the morning of Dec. 10th , the downhole equipment was checked for contamination by PNNL staff. After testing, the downhole and support equipment was cleaned up and packed for shipment later by PNNL. Andy Black and Ethan Mann left the WTP site after noon with the BHGM sensor and returned to the guest house, packed up the rest of the equipment, and drove to Portland, Oregon. Airline flights were taken on the morning of Dec. 11th back to Colorado.

The freight was received back at the MGL offices in Lafayette, Colorado on Dec. 18th, 2006.

Appendix: D Data file formats

D.1 .dat file format

The .dat file format is the raw file format written to the hard drive in the field by the BHGM acquisition system during the survey. All time references are in days and fractional days from 12:00:00, May 22, 1960 (the base time used for the tide correction calculations).

The file begins with a header containing relevant well information and borehole meter information

1. the version number of the BCON field program used (version 1.39.4 in the Hanford survey).
2. unused value
3. the date and time of file opening
4. the well name
5. the location of the survey (4 lines)
6. the depth units used: 'f' for feet, 'm' for meters
7. the wellhead latitude (decimal degrees, +N)
8. the wellhead longitude (decimal degrees, +E)
9. the survey ground elevation
10. flag for well depth reference: 'GL' is ground level
11. the survey depth reference elevation
12. the MGL meter operators (3 lines)
13. the client representative
14. the logging truck company
15. the logging truck operator
16. blank line
17. the BHGM number
18. the BHGM feedback board number

19. the electrostatic feedback constants (2 lines) (see equation 1)
20. a variable number of time-date-stamped text note lines

For each reading, there is a reading header consisting of:

1. the reading number, relative to the file
2. Station depth in depth units as entered by Micro-g Lacoste crew.
3. two lines of shuttle sonde depths, not used for this survey
4. Counter reading: the gravity meter's screw position which controls the spring tension.
5. KFactor corrected gravity: the gravity value calculated from the counter reading and the calibration table for the meter.
6. Unclamp time: the time when the beam is recognized as free from the clamping mechanism by the computer system.
7. Unclamp date in month/day/year.
8. Long Position: the amount of tilt of the meter element relative to the tool housing in the plane of the meter beam.
9. Long Level Vertical: the bias of the long level at true vertical
10. Long level calibration: coefficient for off-level correction of the long level
11. Cross Position: the amount of tilt of the meter element relative to the tool housing across the plane of the beam.
12. Cross Level Vertical: the bias of the cross level at true vertical
13. Cross level calibration: coefficient for off-level correction of the cross level
14. Rotate Position: the relative angular position of the meter element within the tool housing.
15. Meter temperatures:

    Electronics Temperature (Elect): the temperature in degrees celsius measured using a temperature sensor located within the tool housing approximately 1 meter above the gravity meter element

    Inside Meter Temp: not used

    Bottom Meter Temp: the temperature in degrees celsius measured using a temperature sensor located within the meter box.

16. Beam clamp position: the beam position when clamped

17. Header information for succeeding lines.

Each succeeding line within a record consists of ten columns of data with the following values:

1. TIME: time of reading
2. TCG: Tide corrected gravity in milliGals relative to the meter's base gravity reading
3. CL: The cross level in arbitrary units which is the readout from the capacitance position level suspended from the bottom of the gravity meter element showing a relative angle to vertical across the plane of the beam.
4. CLError: the cross level off-level correction (not used)
5. LL: The long level in arbitrary units which is the readout from the capacitance position level suspended from the bottom of the gravity meter element showing a relative angle to vertical in the plane of the beam.
6. LLError: the long level off-level correction (not used)
7. EPV: The electrostatic positioning voltage which is the amount of voltage applied to the capacitance position indicator plates to center the beam electrostatically
8. Tide: Tide correction in milliGals calculated using Cartwright and Taylor's 1978 algorithm
9. MTemp: The meter's internal temperature (see above)
10. Beam: the meter beam position (should be in the range 82 to 84 for the electrostatic feedback to function)

At the end of each record the average instantaneous tide corrected gravity (TCG) value is displayed as the Final TCG along with the standard deviation (not used). Notes may be recorded before the next record.

A sample of the .dat file follows. Note that record 1 is not valid: it was recorded to test the system. (note; some long lines have been truncated for display, indicated by ...)

```
version 1.39.4
0
12/05/06 17:59:27
C4993
Hanford
WA

USA
f
46.553100
-119.507230
0.000000
0.000000
  658.00
GL
  658.00
Ethan Mann
Andy Black
Ryan Albery
Alan Rohay
COLOG
Orlando, Al

14
14.1
0.0057866000
-0.0000009000
Note: 16998.2493121 File Opened. Counter is: 4835.107;  ParamFile: C:\BHGM\Bcon\Parameters\14.PRM
Note: 16998.2494881 File Opened. Counter is: 4835.107;  ParamFile: C:\BHGM\Bcon\Parameters\14.PRM
```

```
Note: 16998.2496186 Data file Header Updated.
Note: 16998.2530252 UnClamped Beam.
Record Header  #1
   8.660    :LoggingCoDepth
-9999.999 -9999.999     0.000   1  :EdconDepth1  ...
-9999.999 -9999.999     0.000   0  :EdconDepth2  ...
4835.1071  :Counter
4034.7383   :KFactor Corrected Grav.
16998.2530250   :UnClamp Time
12/5/2006 :DATE
 110 :Long Pos.
  120 :Long Level vertical
0.00000000 : Long level calibration
 196 :Cross Pos.
  110 :Cross Level vertical
0.00000000 : Cross level calibration
 164 :Rotate Pos.
  26  125.25 121.66 : Elect Temp 'C , Inside Meter Temp 'C ,  Bottom Meter Temp 'C
   0 : Beam clamp position
   TIME          TCG        CL     CLError     LL     LLError   EPV    TIDE   MTEMP   Beam
16998.2530368 4034.6514 111.0000 0.00000 123.7778 0.00000  0.000 -0.0870 121.662   43.1
16998.2530484 4034.6514 110.1111 0.00000 122.7778 0.00000  0.000 -0.0870 121.662   38.4
16998.2530600 4034.6514 111.1111 0.00000 122.5556 0.00000  0.000 -0.0870 121.662   34.4

... skipping ...

16998.2533845 4034.6514 107.8889 0.00000 118.7778 0.00000  0.000 -0.0869 121.662   26.2
16998.2533961 4034.6514 109.3333 0.00000 118.4444 0.00000  0.000 -0.0869 121.662   30.7
16998.2534077 4034.6514 106.2222 0.00000 121.2222 0.00000  0.000 -0.0869 121.662   26.7
Final TCG=    0.000 SDV= 0.0000
```

```
End Record
Note: 16998.2535845 Clamped Beam.
Note: 16998.2861323 File Opened. Counter is: 4835.107;  ParamFile: C:\BHGM\Bcon\}Parameters\14.PRM
Note: 16998.2996918 UnClamped Beam.
Note: 16998.5516758  12/06/06 01:14:24    -0.033ft  1390.007ft File Opened. Counter is: 4895.193;  ...
Note: 16998.5524115  12/06/06 01:15:28    -0.033ft  1390.007ft UnClamped Beam.
Record Header  #2
1390.000   :LoggingCoDepth
   -0.033    -0.033     0.000   0  :EdconDepth1  ...
 1390.007  1390.007     0.000   1  :EdconDepth2  ...
4895.1931  :Counter
4084.9510   :KFactor Corrected Grav.
16998.5524120   :UnClamp Time
120606 :DATE
 110 :Long Pos.
  116 :Long Level vertical
0.00000000 : Long level calibration
 177 :Cross Pos.
   95 :Cross Level vertical
0.00000000 : Cross level calibration
 206 :Rotate Pos.
  41  125.25 121.72 : Elect Temp 'C , Inside Meter Temp 'C ,  Bottom Meter Temp 'C
   0 : Beam clamp position
   TIME          TCG        CL     CLError     LL     LLError   EPV    TIDE   MTEMP   Beam
16998.5524232 4084.8327 93.0000 0.00000 117.0000 0.00000  4.222 -0.0939 121.724   82.2
16998.5524348 4084.7788 93.0000 0.00000 117.0000 0.00000 13.556 -0.0939 121.724   83.0
16998.5524464 4084.7718 93.0000 0.00000 117.0000 0.00000 14.778 -0.0939 121.724   83.0

...skipping...
```

```
16998.5555065 4084.7432 93.0000 0.00000 118.1111 0.00000 19.889 -0.0930 121.724   83.0
16998.5555181 4084.7579 93.0000 0.00000 118.0000 0.00000 17.333 -0.0930 121.724   83.0
16998.5555297 4084.7598 93.0000 0.00000 118.0000 0.00000 17.000 -0.0930 121.724   83.0
Final TCG=    0.000 SDV= 0.0000
End Record
Note: 16998.5557040  12/06/06 01:20:12    -0.033ft  1390.007ft Clamped Beam.
Note: 16998.5613805  12/06/06 01:28:23    37.825ft  1380.030ft UnClamped Beam.
Record Header  #3
```

D.2 .rdg file format

The .dat raw data files are individually run through the data reduction program R8.EXE (see discussion in the Terrain Corrections section). R8.EXE can display the raw data, edit out noise spikes, filter, and pick final gravity value for each individual reading. To minimize drift and hysteresis errors the final gravity value is picked in a window usually centered about 4 minutes after unclamp time. There can be multiple readings in the data file for each reading depth and repeat set; this is usually caused by operator errors or other problems.

This program also outputs a number of files, the most important one is called the ”reading” file (*.rdg). This file contains a header (9 lines) with some well and tool information, a two line data header, then data lines with ”summaries” of each reading, one line per reading.

The header lines are:

1. the well name
2. unused
3. the wellhead elevation
4. the wellhead latitude (decimal degrees, +N)
5. the wellhead longitude (decimal degrees, +E)
6. the depth units used: ’f’ for feet, ’m’ for meters
7. the electrostatic feedback constants (3 lines) (see equation 1)
8. two lines of column header text

Some reading file numbers are averages from the 1 second data (such as BHGM Temp and Elect temp) and others are just single valued numbers like the Counter or Unclamp time, directly copied from the raw data file. Some of the numbers in the reading file are included for factory diagnostics, such as Rdg Drift, LP,CP, and RP.

1. Rdg # : reading number, numbered sequentially from 1 for each data file. (copied)
2. UnClamp Time: time when meter was last unclamped. NOTE: Raw data files may have a one reading delay in this number which was manually corrected in reading files. (copied)
3. Reading Time: center time of the reading data. (averaged)
4. Depth: depth entered manually before each reading. This is the depth used for further processing. (copied)
5. Enc. Offset: Encoder offset, only used with Shuttle surveys. (copied)
6. Gravity Reading: tide corrected gravity reading in mGals. Can be either averaged gravity in a window or hand picked value. (averaged)
7. SDev: standard deviation in mGals of gravity reading. (averaged)

8. Rdg Drift: drift of the gravity value during the reading (Slope of a least squares fit line through the data) This may be set to zero if the data is hand-picked. (averaged)

9. Drift Corrn: drift Correction. This is a manually or automatically applied drift correction to each reading. (averaged)

10. Elec Temp: electronics temperature as in the .dat file. (averaged)

11. BHGM Temp: BHGM sensor temperature. This should stay constant within $\pm 0.1^\circ$ C. The constant can be anywhere from 116 to 131° C depending on the "nose" temperature of the meter. (averaged)

12. Counter reading: Counter screw value. This is converted to gravity by the KF table. (copied)

13. EPV: Electrostaic Positioning Voltage (the Feedback voltage in 0-255 A/D units). This is converted to mGals by the A (linear) and B(squared) calibration terms. (averaged)

14. EDCON Depth1: Depth from one channel of auxillary depth encoder channel. Not used. (copied)

15. Tide: Tide correction, in mGals, from Cartwright and Taylor. This is based on the latitude, longitude and UTC time. (averaged)

16. CL: Cross level value, range 0-255. This should stay constant to within ± 3 numbers. The CL value indicates verticality of meter perpendicular to the beam. (averaged)

17. LL: Long level value, range 0-255. This should stay constant to within ± 3 numbers. The LL value indicates verticality of meter in the plane of the beam. (averaged)

18. CP: Cross Position. This is a crude measure of mechanical movement in the cross tilt mechanism. (copied)

19. LP: Long Position. This is a crude measure of mechanical movement in the long tilt mechanism. (copied)

20. RP: Rotate Position. This is a crude measure of mechanical rotation in the mechanism that rotates the sensor inside the housing. The rotation aligns the tilt axis of the meter up with the borehole tilt axis. (copied)

21. KFactored Reading: Counter reading converted to gravity (mGals) by the KF table. (copied)

The *.rdg file is used in further processing steps to actually calculate the density and corrections.

A sample of the .rdg file follows. (note; some long lines have been wrapped for display, indicated by ...)

```
C4993

   658.000 Well head elevation
46.55310
-119.50723
f
 Electrostatic constants
0.00578660 = A
-0.000000900 = B
Rdg Unclamp Reading  Depth   Encoder Gravity      SDev   Rdg      Drift  Elec   ...
BHGM     Counter    EPV      EDCON           tide    CL    LL    CP  LP  RP KFactored
 #  Time    Time             Offset  Reading             Drift    Corrn  Temp  ...
  Temp     Reading             Depth1                     Reading

  1 16998.2530250 16998.2532270      8.660  0.000   4034.6514   0.000  -0.000   ...
     0.0000 26.0 121.662 4835.1071     0.00  -9999.999  -0.0869 109.9 121.6 196 110 164 4034.7383
  2 16998.5524120 16998.5539662   1390.000  0.000   4084.7420   0.041  -0.000   ...
     0.0000 41.0 121.724 4895.1931    19.29     -0.033  -0.0935  93.0 117.4 177 110 206 4084.9510
  3 16998.5613810 16998.5629621   1380.010  0.000   4084.5020   0.026  -0.000   ...
     0.0000 41.0 121.724 4895.1931    61.83     37.825  -0.0906  93.0 116.7 177 110 144 4084.9510
  4 16998.5686830 16998.5701501   1390.010  0.000   4084.7360   0.018  -0.000   ...
     0.0000 41.0 121.724 4895.1931    21.17     -7.125  -0.0878  96.0 112.9 177 110  68 4084.9510
```

Appendix: E Calibration and test procedures

Before mobilizing from Lafayette, Colorado to Hanford, Washington, BHGM #14 went through a standard array of tests and calibrations. The Hanford wells were relatively shallow and cool, which meant that heat testing at high temperatures was not necessary. These wells were vertical wells and not deviated, so sensor tilt would not cause gravity errors. These tests were skipped for this survey. Tests that were performed:

- Physical meter inspection
- Cross and Long level tests
- Clamp/Unclamp tests
- EPV Calibration
- Screw calibration check

The nose test(for meter sensor temperature setting) and magnetization test (for errors due to internal magnetization) were done earlier (8/05). The Pre-Survey Calibration check list is attached.

The in-hole calibrations, done under control of the uphole computer running the BCON program, consisted of:

- Checking Long and Cross level vertical by moving level until gravity is a maximum (verified visually on the uphole computer). Level vertical values in software are reset if necessary.
- Feedback calibration (EPV) - record corrected gravity vs. counter reading for a range of EPV values (30-220). This should be approximately a straight line, except for errors caused by counter non-linearity and drift. This data was analyzed using Microsoft Excel.
- Clamp/Unclamp repeatability. Unclamp meter and record 4 minutes of data, then clamp meter. This is repeated 3-5 times and average gravity values after drift correction are compared using Excel.

These data sets are recorded to data files on the PC and sometimes by hand into the field book. Copies are on the report CD. Long and Cross level settings are changed during surveys as required by testing. No changes were made to the Feedback calibration (EPV) during the survey. There were small errors in each test caused by mechanical counter non-linearity but overall combination of all tests showed that the calibration used is the correct one. Clamp/Unclamp repeats appeared good (errors under 0.005 mGals after drift correction) during all checks during surveys.

A list of the in-hole calibration files follows:

```
C4993-
14L120506.DAT, 14C120506.DAT, 14E120506.DAT, 14A120506.DAT
14L120806.DAT, 14C120806.DAT, 14E120806.DAT, 14A120806.DAT
```

C4996-
14L111706.DAT, 14C111706.DAT, 14E111706.DAT, 14A111706.DAT
14L112506.DAT, 14C112506.DAT, 14E112506.DAT, 14A112506.DAT

C4997-
14L112706.DAT, 14C112706.DAT, 14E112706.DAT, 14A112706.DAT
14L112906.DAT, 14C112906.DAT, 14E112906.DAT, 14A112906.DAT
14L120306.DAT, 14C120306.DAT, 14E120306.DAT, 14A120306.DAT

In addition to these files many other level check files were recorded in all three wells at various times whenever the engineer felt it would be prudent. Other calibration file sets were run with no gravity data was recorded afterwards, as when there were tool, truck, or well problems.

Copies of Non-Conformance reports are attached as Appendix G.

Appendix: F Gravity acquisition procedure

At each station where a gravity reading was made the meter was first leveled, unclamped, and then the gravity recording was made. The results were written to the computer disc and stored as a raw data file. A copy of the raw data file (XXXXX.DAT) is provided on the CD (back pocket). Several minutes of data are recorded at each station until the operator is satisfied that the meter spring had stabilized and that an accurate reading could be determined.

A combination of the counter screw position and the electrostatic positioning voltage (EPV) or feedback voltage, are used to make a gravity reading. Both the counter screw and the EPV values must be converted using calibration factors to derive a gravity reading.

The calibration table for the counter screw lists counter values, $C(i)]$, at intervals of 100 numbers and the corresponding gravity values (Table 10). To obtain the equivalent gravity value, G_C, for a counter value C, the following formula is used to linearly interpolate over the 100 number counter value range:

$$G_c = G(i) + \frac{(C - C(i))\,(G(i+1) - G(i))}{100}$$

where $C(i)$ and $G(i)$ are the equivalent counter and gravity values in 100 counter increments and $C(i) < C < C(i+1)$.

The instantaneous electrostatic positioning voltage or feedback voltage, V, is equivalent to a gravitational acceleration, G_v given by the formula:

$$G_v = -(A \times V) - \left(B \times V^2\right) \tag{1}$$

where A and B are constants for each meter and feedback board.

In order to filter external accelerations from the readings, the electrostatic positioning voltage is sampled approximately eight times per second over a sample interval of 1 second. Each electrostatic positioning voltage is converted to an equivalent acceleration and added to the gravity value calculated from the counter screw.

The tidal gravity correction value G_t is calculated using Cartwright and Taylor's algorithm. The final tide-corrected gravity value G_{TC} is calculated by

$$G_{TC} = G_c + G_v + G_t \tag{2}$$

The set of instantaneous gravity values were averaged over the sample interval (1 second) and written to the raw data file along with the information shown in Appendix D.1.

Table 10: BHGM #14 Screw K-factors

Counter units	mGals		Counter units	mGals
0	0.000		4100	3420.450
100	83.468		4200	3503.999
200	166.919		4300	3587.557
300	250.356		4400	3671.122
400	333.780		4500	3754.691
500	417.193		4600	3838.261

Table 10: BHGM #14 Screw K-factors continued

Counter units	mGals		Counter units	mGals
600	500.596		4700	3921.831
700	583.991		4800	4005.400
800	667.378		4900	4088.968
900	750.758		5000	4172.535
1000	834.133		5100	4256.101
1100	917.503		5200	4339.666
1200	1000.871		5300	4423.230
1300	1084.237		5400	4506.792
1400	1167.603		5500	4590.353
1500	1250.966		5600	4673.912
1600	1334.327		5700	4757.469
1700	1417.690		5800	4841.022
1800	1501.059		5900	4924.570
1900	1584.433		6000	5008.112
2000	1667.812		6100	5091.645
2100	1751.196		6200	5175.169
2200	1834.583		6300	5258.683
2300	1917.972		6400	5342.186
2400	2001.362		6500	5425.678
2500	2084.755		6600	5509.155
2600	2168.153		6700	5592.614
2700	2251.560		6800	5676.053
2800	2334.977		6900	5759.471
2900	2418.405		7000	5842.864
3000	2501.845		7100	5926.229
3100	2585.299		7200	6009.564
3200	2668.769		7300	6092.865
3300	2752.257		7400	6176.132
3400	2835.758		7500	6259.362
3500	2919.269		7600	6342.555
3600	3002.787		7700	6425.711
3700	3086.311		7800	6508.828
3800	3169.839		7900	6591.908
3900	3253.371		8000	6674.948
4000	3336.908			

Appendix: G Non-Conformance reports (scanned)

5.1.4. MICROG LACOSTE NON-CONFORMANCE REPORT

Page 1 of 2

Job Number: Hanford Date: 11/11/06

Originator: Ethan Mann

Equipment Category: ~~Stuff~~ Depth System Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

Depth System won't initialize propely.

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

check hardware & software

Action to be taken: Investigate ✓ Rework _____ Repair ✓ Use-as-is_____ Scrap_____

Disposition assigned to Performing Organization (who should fix probem): Hardware - Ethan Software - Andy Black

Disposition assigned to: _____ Date for completion: ASAP

Signature: _____ Date:_____

Investigation Details: Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

Hardware checked on other software - works!
So problem is software related with BCON.EXE.
ver 1.39.4

Action to be taken: Investigate more __V__ Rework _____ Repair _____ Use-as-is_____ Scrap_____

Signature: [signature] Date: 11/9/06

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Supplier of Board + driver talked to - will investigate.
Got Win98 pc to Run earlier version (B5) for depths.
Continue to investigate software problem with manuf.

Signature: [signature] Date: 11/15/06

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES __V__ NO ____ Hold Tag Removed: YES ____ NO ____ NA

Signature: [signature] Date: 12/10/06

Software problem & changed Init routine slightly for Depth boards. No other changes. Recompiled. BCon works now.

5.1.4. MICROG LACOSTE NON-CONFORMANCE REPORT

Page 1 of 2

Job Number: Hanford Date: 11/15/06

Originator: Ethan Mann

Equipment Category: Shuttle Winch Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

Shuttle winch won't move up, moves down fine.
Multiple spare board failures 11/5, 11/16.
Hardware problem

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

Troubleshoot Winch controller boards.

Action to be taken: Investigate ✓ Rework ____ Repair ✓ Use-as-is____ Scrap____

Disposition assigned to Performing Organization (who should fix probem): Electronics Shop

Disposition assigned to: ____ Date for completion: After job

Signature: [signature] Date: 11/17/06

MICROG LACOSTE NON-CONFORMANCE REPORT
Page 2 of 2

Investigation Details: Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

Not performed yet. Troubleshoot back at shop.
Now Use tool without shuttle winch.

Action to be taken: Investigate more ✓ Rework _____ Repair _____ Use-as-is_____ Scrap_____

Signature: [signature] Date: 11/17/06

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Signature:_____ Date:_____

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES ____ NO ____ Hold Tag Removed: YES ____ NO ____

Signature:_____ Date:_____

5.1.4. MICROG LACOSTE NON-CONFORMANCE REPORT

Page 1 of 2

Job Number: Hanford Date: 28 NOV 2006

Originator: Ethan Mann

Equipment Category: Gamma Tool Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

No Gamma count rates Can't do gamma depth tie.

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

Pull out, repair electronics

Action to be taken: Investigate _____ Rework _____ Repair ✓ Use-as-is_____ Scrap_____

Disposition assigned to Performing Organization (who should fix probem): Field Crew

Disposition assigned to: Ethan Date for completion: ASAP

Signature: Ethan Mann Date: 11/28/06

Investigation Details: Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

Opened up tool. Found loose chip in Shuttle electronics Gamma pulse circuitry. Rep

Action to be taken: Investigate more ____ Rework ____ Repair ✓ Use-as-is____ Scrap____

Signature: [signature] Date: 11/28/06

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Replaced chip in Gamma circuit. Checked out works OK.

Signature: [signature] Date: 11/28/06

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES ✓ NO ____ Hold Tag Removed: YES ✓ NO ____

Signature: [signature] Date:____

5.1.4. MICROG LACOSTE NON-CONFORMANCE REPORT

Page 1 of 2

Job Number: Hanford Date: 11/29/2006

Originator: Ethan Mann

Equipment Category: Bitom #14 Sensor Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

Long level changing slightly. Means LL check must be performed more often because of changes in gravity.

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

Do LL checks more often.

Action to be taken: Investigate _____ Rework _____ Repair _____ Use-as-is ✓ Scrap _____

Disposition assigned to Performing Organization (who should fix probem): _____

Disposition assigned to: _____ Date for completion: _____

Signature: Ethan Mann Date: 11/29/06

MICROG LACOSTE NON-CONFORMANCE REPORT
Page 2 of 2

Investigation Details: Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

N/A.

Action to be taken: Investigate more _____ Rework _____ Repair _____ Use-as-is_____ Scrap_____

Signature:_____ Date:_____

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Use as-is just check more often. Repair is possible but time consuming and necessitate pulling out of holes.

Signature: [signature] Date: 11/29/06

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES ✓ NO ___ Hold Tag Removed: YES ___ NO ___ (N/A)

Signature: [signature] Date: 11/29/06

5.1.4. MICROG LACOSTE NON-CONFORMANCE REPORT

Page 1 of 2

Job Number: Hanford Date: 12/2/2006

Originator: Ethan Mann

Equipment Category: DHGM Sensor Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

Long Level motor failed to move.
Can't Level meter.

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

Repair motor or find electrical problem and repair.

Action to be taken: Investigate ✓ Rework ____ Repair ✓ Use-as-is____ Scrap____

Disposition assigned to Performing Organization (who should fix probem): Field Crew

Disposition assigned to: Ryan Alberry Date for completion: ASAP

Signature: [signature] Date: 12/3/06

MICROG LACOSTE NON-CONFORMANCE REPORT
Page 2 of 2

Investigation Details: Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

Ryan Found bad solder joint on motor wire.

Action to be taken: Investigate more _____ Rework _____ Repair ✓ Use-as-is_____ Scrap_____

Signature:_____ Date:_____

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Clipped wire, Resoldered. checked ok.
Re-assembled.

Signature:_____ Date:_____

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES ✓ NO ___ Hold Tag Removed: YES ✓ NO ___

Signature: [signature] Date: 12/3/06

Attachment 6 **MICRO-G LACOSTE NONCONFORMANCE REPORT**
Page 1 of 2

Job Number: Hanford Date: 4 Dec 2006

Originator: Ethan Mann

Equipment Category: BHSM sensor Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

Long level. sensitivity too low. Also center was moving.

Signature: [signature] Date: 12/4/06

****

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

Replace level.

Action to be taken: Investigate ____ Rework ✓ Repair ____ Use-as-is____ Scrap____

Signature: [signature] Date:____

****

Disposition assigned to Performing Organization: Field Crew

Disposition assigned to: Ethan Mann Date for completion: ASAP

Signature: [signature] Date: 12/4/06

MICRO-G LACOSTE NONCONFORMANCE REPORT

Investigation Details:

Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

N/A

Action to be taken: Investigate more _____ Rework _____ Repair _____ Use-as-is_____ Scrap_____

Signature:_____ Date:_____

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Level Replaced with spare. Eg Electronics checked. Long Center position (vertical) re-calibrated.

Signature: [signature] Date: 12/4/06

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES V NO ____ Hold Tag Removed: YES V NO ____

Signature: [signature] Date:_____

Attachment 6 **MICRO-G LACOSTE NONCONFORMANCE REPORT**
Page 1 of 2

Job Number: Hanford Date: 7 Dec, 2006

Originator: Ethan Mann

Equipment Category: BHGM sensor Meter #: 14

Description of Non Conformance: Include Extent of Problem and Impact on other systems or processes.

Rotate Motor stopped.

Signature: [signature] Date: 12/7/2006

****

Disposition Evaluation: How can this problem be dealt with? Where should this part or process be reassigned?

Fix motor / wiring

Action to be taken: Investigate / Rework ____ Repair ✓ Use-as-is____ Scrap____

Signature: [signature] Date: 12/7/06

****

Disposition assigned to Performing Organization: Field Crew

Disposition assigned to: Ethan Mann Date for completion: ASAP

Signature: [signature] Date: 12/7/06

MICRO-G LACOSTE NONCONFORMANCE REPORT

Investigation Details:

Describe the details of the investigation into the source of the problem. Write N/A if an investigation is not applicable.

Wiring OK, check motor OK. Decide problem might be dirty motor brushes -- clean up with solvent then lubricate lightly with silicon

Action to be taken: Investigate more _____ Rework _____ Repair ___V___ Use-as-is_____ Scrap_____

Signature: [signature] Date: 12/7/06

****

Action Details: Describe the details of how the problem was reworked or repaired and/or why the decision to use-as-is or scrap was chosen.

Clean brushes.

Signature: [signature] Date: 12/7/06

****

VERIFICATION OF ACTION TO NONCONFORMANCE:

Action Accepted: YES ___V___ NO ____ Hold Tag Removed: YES ___V___ NO ____

Signature: [signature] Date: 12/7/06