

# Appendix 2

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*BASE NETWORK GRAVITY REDUCTION*



DATE	BASE NO	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdng in Mgals	Drift	Dft Cor Mgals	Change in Obs Grv	Remarks
24/1/67	9002	3970.06	153.5		+0.14	4037.80	1.072.0	4108.848	+0.021	4114.870		
	9003	3975.96	150.8	53	+0.17			4114.849				
	9002	3969.98	1640	105	0.18			4108.807	+0.041	4108.848	6.022	
	9003	3975.98	158.8		0.17			4114.849				
	9007	3969.98	1640	52	0.18			4108.807		4108.807		
	9003	3975.95	167.8	90	0.18			4114.849	0.000	4114.849	6.042	
	9002	3969.98	1640		0.18			4108.807				
	9003	3975.95	167.8	38	0.18			4114.849	0.010	4114.860		
	9002	3969.97	171.6	76	0.17			4108.787	+0.020	4108.807	6.053	
	9003	3975.95	167.8		0.18			4114.849				
	9007	3969.97	171.6	38	0.17			4108.787	+0.012	4108.799		
	9003	3975.96	175.5	77	0.185			4114.874	+0.025	4114.849	6.050	6.042

DATE	BASE No	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdg in Mgals	Drift	Dft Cor Mgals	Change in Obs Grv	Remarks
8-25/11	9000	3980.45	206		0.080	4037.80	1.01210	4119.403		4119.403		
	9500	3947.01	244	38	0.170			4085.549	0.000	4085.549	-33.854	
	9001	3940.54	203	77	0.146			4078.971	0.001	4078.970	-6.579	
	9500	3947.08	322	116	0.116			4085.479	0.002	4085.477	+6.597	
	9000	3980.55	351	145	0.080			4119.405	0.002	4119.403	+33.926	
	9000	3980.55	351		0.080			4119.405		4119.405		
	9500	3947.11	302	31	0.056			4085.530	+0.007	4085.537	-33.848	
	9001	3940.61	416	65	0.015			4078.916	+0.015	4078.931	-6.606	
	9500	3947.19	443	97	-0.015			4085.546	+0.022	4085.560	+6.637	
	9000	3980.64	477	126	-0.040			4119.376	+0.029	4119.405	+33.857	
					33.854							
					<del>33.925</del> * Discard							
					33.848							
			33.811		33.887		33.813					
					6.58							
					<del>6.587</del> * Discard							
					6.606							
			6.582		6.637		6.607					

2071 → 9000

DATE	BASE No	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdg in Mvals	Drift	Dft Cor Mvals	Change in Obs Grv	Remarks
25/11	2071	3976.590	5	0	0.105	4037.80	1.01210	4115.422				
	9000	3980.505	67	62	0.155			4119.434	-0.012	4119.422		
	2071	3976.540	101	96	0.175			4115.441	-0.019	4115.422	4.000	25a
	9000	3980.505	67	0	0.155			4119.434				
	2071	3976.540	101	34	0.175			4115.441	+0.010	4115.450		
	9000	3980.456	131	64	0.185			4119.414	+0.020	4119.434	3.984	25b
	2071	3976.540	101		0.175			4115.441				
	9000	3980.456	131	30	0.185			4119.414	+0.013	4119.427		25c
	2071	3976.500	160	59	0.190			4115.416	+0.025	4115.441	3.986	
	9000	3980.456	184		0.185			4119.414				
	2071	3976.500	160	29	0.190			4115.416	+0.004	4115.420		
	9000	3980.450	206	75	0.180			4119.403	+0.011	4119.414	3.994	25d
									0.071	+ 9000		+ 3.991

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2006-0006

DATE	BASE No	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdg in Mgals	Drift	Dft Cor Mgals	Change in Obs Grv	Remarks
24/11/67	9000	3980.625	1315		-0.055	4037.80	1.07210	4119.346		4119.346		
	9002	3970.240	1320	55	-0.010			4108.880	-0.013	4108.893		
	9000	3980.560	1415	100	+0.035			4119.370	-0.024	4119.346	-10.453	
	9002	3970.240	1320		-0.010			4108.880		4108.880		
	9000	3980.560	1415	45	+0.035			4119.370	+0.030	4119.400	-10.570	
	9002	3970.100	1456	86	+0.075			4108.883	+0.057	4108.880		
	9000	3980.560	1415		+0.035			4119.370				
	9002	3970.100	1456	41	+0.075			4108.873	+0.064	4108.847		
	9000	3980.43	1501	86	+0.115			4119.320	+0.050	4119.370	-10.523	
	9002	3970.100	1504		+0.015			4108.873				
	9000	3980.430	1505 <sup>01</sup>	45	+0.115			4119.370	-0.064	4119.306		
	9002	3970.060	1504	79	+0.140			4108.848	-0.075	4108.873	-10.483	AV 10.495
										9000 - 9002	-AV-10.509	

9001  $\rightarrow$  9501  $\rightarrow$  9604

DATE	BASE No	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdg in Mgals	Drift	Dft Cor Mgals	Change in Obs Grv	Remarks
10/1/07	9001	3940.85	2804	0	-0.045	4037.80	1.01210	4079.099		4079.099		
	9501	3940.87	2838	34	-0.000			4079.145	-0.010	4079.135	+0.036	
	9004	3946.58	2819	65	+0.005			4084.949	-0.020	4084.929	+5.794	
	9501	3940.84	2892	88	+0.025			4079.159	-0.021	4079.132	-5.797	
	9001	3940.79	2920	116	+0.050			4079.134	-0.035	4079.099	-0.033	
	9001	3940.79	2920	0	+0.050			4079.134		4079.134	+11.026	
	9501	3940.795	2947	27	+0.075			4079.164	-0.004	4079.160	+0.026	
	9004	3946.50	2971	51	+0.095			4084.958	-0.007	4084.951	+5.791	
	9501	3940.78	2996	76	+0.115			4079.188	-0.010	4079.178	-5.773	
	9001	3940.72	3020	100	+0.135			4079.148	-0.004	4079.134	-0.004	
	9001				0.036							
	9501				0.033							
	9004				0.026							
					0.044	0.035						
					5.794							
					5.797							
					5.791							
					5.773	5.789						

100% 100% 100%

9004 - 9005

DATE	BASE NO	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdg in Mfgals	Drift	Dft Cor Mfgals	Change in		Remarks
											Obs	Grv	
27/11/07	9004	3946.43	3074		0.16	4037.80	1.01210	4084.952		4084.952			
	HRT	3965.86	3106	32	0.16			4104.677	+0.004	4104.621		19.659	
	9005	3965.87	3112	38	0.17			4104.637	+0.005	4104.642		-0.021	
	9001	3946.41	3140	66	0.17			4084.952	+0.000	4084.952		-19.680	119.690
	9005	3965.87	3102		0.17			4104.637		4104.637			
	9004	3946.41	3140	28	0.17			4084.921		4084.921			
	9005	3965.92	3167	55	0.16			4104.678	-0.041	4104.637		19.716	
	9004	3946.41	3140		0.17			4084.942		4084.942			
	9005	3965.92	3167	57	0.16			4104.678	+0.014	4104.652		19.750	
	9004	3946.40	3198	58	0.15			4084.911	+0.031	4084.942			
	9005	3965.92	3167		0.16			4104.678		4104.678			
	9004	3946.40	3198	31	0.15			4084.911	+0.032	4084.943		19.735	
	9005	3965.88	3126	59	0.14			4104.677	+0.048	4104.678			
								19.690					
								19.716					
								19.780 *					
								19.735	19.723				





DATE	BASE NO	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Relat. in		Gft Cor		Change in		Remarks
								Mgals	Drift	Mgals	Obs Grv			
2/8/11/07	9139	4003.40	45.2		0.11	4139.01	1.01223	4142.512						
	9007	3985.53	45.0	73	0.14	4037.80	1.01210	4124.505	-0.005	4124.500				
	9139	4003.38	44.2	130	0.14	4139.01	1.01223	4142.511	-0.009	4142.562		18.062		
	9007	3985.53	45.0		0.14	4037.80	1.01210	4124.505						
	9139	4003.38	44.2	52	0.14	4139.01	1.01223	4142.511	-0.005	4142.560				
	9007	3985.55	46.1	101	0.125	4037.80	1.01210	4124.510	-0.005	4124.505		18.063		18.063
	9007	3985.55	46.1		0.125	4037.80	1.01210	4124.510						
	9005	3965.99	47.0	29	0.110	"	"	4104.698	-0.003	4104.695				
	9007	3985.59	47.0	69	0.09	"	"	4124.516	-0.006	4124.510		19.815	✓	
	9005	3965.99	47.0		0.110	"	"	4104.698	-0.003	4104.695				19.815
	9007	3985.59	47.0	40	0.090	"	"	4124.516	-0.006	4124.510				
	9005	3966.12	48.10	90	0.060	"	"	4104.698	-0.008	4104.698		19.782	✓	19.799
		4456.02						4456.02	-0.019					
								</						





DATE	BASE No	Av Meter reading	Av Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdgr in Mgal	Drift	Dft Cor Mgal	Change in Obs Giv	Remarks
30/1/67	9139	4003.61	7027		-0.050	4139.01	1.01223	4142.614	0.000	4142.614		9139 → 9503
	9503	4025.43	7052	25	-0.050			4164.701	-0.002	4164.699	+22.085	+22.085
	9011	4048.77	7096	71	-0.050			4188.326	0.005	4188.321	+23.672	22.079
	9503	4025.42	7137	110	-0.040			4164.701	-0.008	4164.693	-22.608	22.082
	9139	4003.61	7158	131	-0.040			4142.624	-0.010	4142.614	-22.079	22.057
												AV + 22.076
	9139	4003.64	7158		-0.040			4142.624	0.000	4142.624		9503 → 9011
	9503	4025.43	7183	25	-0.040			4164.711	-0.005	4164.706	22.082	+23.622
	9011	4048.75	7223	65	-0.030			4188.326	-0.012	4188.314	23.608	23.628
	9503	4025.40	7265	107	-0.020			4164.701	-0.020	4164.681	23.633	23.608
	9139	4003.605	7292	134	-0.010			4142.649	-0.025	4142.624	22.057	23.633
												AV + 23.628
	9502	3980.68	7367		+0.02	4037.80	1.01210	4119.476				
	9012	3953.70	7398	31	+0.03			4092.180	+0.005	4092.175	-27.301	
	9502	3980.65	7425	58	0.04			4119.466	+0.010	4119.476		
	9012	3953.70	7398		+0.03			4092.180				
	9502	3980.65	7425	27	0.04			4119.466	-0.002	4119.464	27.284	
	9012	3953.68	7456	58	0.055			4092.185	0.005	4092.180		
	9502	3980.65	7425		0.04			4119.466				9502 → 9012
	9012	3953.68	7456	31	0.055			4092.185	-0.016	4092.169	27.297	AV - 27.294
	9502	3980.66	7482	57	0.06			4119.466	-0.020	4119.446		







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9261



DATE	BASE NO	AV Meter reading	AV Acc Time	Elapsed Time (m)	Tide Cor'n	Interval Constant	Inst Factor	Rdg in Mgals	Drift	Dft Cor Mgals	Change in Obs Grv	Remarks
04/10/07	9501	3941.05	12924		+0.07	4071.80	1.01210	4079.417				
	9014	3828.55	12983	42	+0.07	3936.6	1.01196	3965.561	+0.005	3965.561		
	9501	3941.05	12999	78	+0.06	4071.80	1.01210	4079.407	+0.010	4079.417	113.841	
	9014	3828.55	12983		+0.07	3936.6	1.01196	3965.561				
	9501	3941.05	12999	36	+0.06	4071.80	1.01210	4079.407	+0.004	4079.411		
	9014	3828.56	13020	75	+0.05	3936.6	1.01196	3965.562	10.000	3965.571	113.840	
	9501	3941.05	12999		+0.06	4071.80	1.01210	4079.407				
	9014	3828.56	13020	39	+0.05	3936.6	1.01196	3965.562	-0.005	3965.557		
	9501	3941.08	13072	73	+0.04	4071.80	1.01210	4079.417	-0.010	4079.407	113.850	
	9014	3828.56	13030		+0.05	3936.6	1.01196	3965.562				
	9501	3941.08	13072	34	+0.04	4071.80	1.01210	4079.417	+0.005	4079.414		
	9014	3828.59	13105	67	+0.025	3936.6	1.01196	3965.561	-0.005	3965.562	113.852	113.845

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