

Appendix A

List of the used observatories and repeat stations

Table A.1: Magnetic observatories and repeat stations

Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
<i>Geomagnetic Observatories</i>									
ALE	82.497	297.647	60	149	17.0	150	17.0	150	33.0
HIS	80.617	58.050	20	15	10.0	15	13.0	15	18.0
NAL	78.917	11.933	11	21	12.0	21	17.0	21	11.0
CCS	77.717	104.283	10	75	11.0	75	4.0	75	27.0
THL	77.467	290.767	57	224	10.0	224	7.0	224	23.0
HRN	77.000	15.550	15	224	10.0	224	8.0	224	16.0
MBC	76.315	240.638	40	184	17.0	186	14.0	186	16.0
RES	74.690	265.105	30	232	15.0	234	8.0	234	20.0
BJN2	74.500	19.200	80	82	8.0	82	5.0	82	9.0
DIK	73.543	80.562	15	74	21.0	74	14.0	74	14.0
TIK	71.583	129.000	40	92	14.0	92	8.0	47	23.0
BRW	71.323	203.380	12	224	11.0	224	9.0	224	14.0
TRO	69.663	18.948	112	115	6.0	115	4.0	115	10.0
GDH2	69.252	306.467	24	228	10.0	228	4.0	228	13.0
CBB	69.123	254.969	20	234	15.0	233	12.0	234	14.0
ABK	68.358	18.823	380	220	6.0	218	3.0	224	9.0
MMK	68.250	33.083	200	9	14.0	9	29.0	9	11.0
KIR	67.833	20.417	390	20	5.0	20	4.0	20	10.0
SOD3	67.368	26.630	178	224	5.0	224	3.0	224	8.0
CWE	66.163	190.165	10	93	8.0	93	10.0	93	11.0
CMO2	64.867	212.167	90	217	8.0	217	5.0	217	9.0
ARK	64.583	40.500	0	35	13.0	35	5.0	41	9.0
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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]	
OUL	64.520	27.230	130	7	5.0	7	2.0	7	4.0	
BLC	64.333	263.967	30	224	12.0	224	9.0	224	14.0	
LRV	64.183	338.300	5	224	6.0	224	4.0	224	8.0	
IQA	63.753	291.482	67	54	6.0	54	14.0	54	13.0	
YKC2	62.482	245.518	198	212	13.0	212	10.0	212	12.0	
DOB2	62.073	9.117	660	26	5.0	26	3.0	26	5.0	
YAK	62.017	129.717	100	171	8.0	171	13.0	171	9.0	
POD	61.600	90.000	0	128	10.0	128	12.0	127	7.0	
NAQ	61.100	314.800	4	227	7.0	227	4.0	228	9.0	
NUR	60.508	24.655	110	224	5.0	224	3.0	224	8.0	
LER	60.133	358.817	85	233	5.0	233	3.0	233	8.0	
MGD	60.117	151.017	0	128	13.0	128	23.0	128	39.0	
LNN	59.950	30.705	70	104	6.0	104	3.0	106	7.0	
LOV	59.345	17.827	25	213	6.0	213	3.0	224	8.0	
FCC	58.759	265.912	15	234	10.0	234	6.0	234	11.0	
BOX	58.030	38.970	0	223	8.0	223	5.0	223	8.0	
SIT2	57.067	224.683	24	232	10.0	232	5.0	232	7.0	
ARS	56.433	58.568	290	126	8.0	126	3.0	125	6.0	
KZN	55.833	48.850	80	100	7.0	100	3.0	100	7.0	
BFE	55.625	11.672	80	212	6.0	212	3.0	212	7.0	
MOS	55.467	37.312	200	119	18.0	119	7.0	119	11.0	
ESK	55.317	356.800	242	233	6.0	233	5.0	233	7.0	
PBQ	55.277	282.255	40	156	11.0	156	5.0	156	10.0	
GWC	55.267	282.217	23	43	38.0	43	24.0	43	22.0	
NVS	55.033	82.900	120	218	9.0	218	5.0	218	7.0	
KLD	54.700	20.617	0	0	1.0	0	1.0	3	9.0	
MEA	54.616	246.653	700	234	10.0	234	5.0	234	9.0	
HLP	54.608	18.815	3	139	7.0	139	5.0	139	7.0	
MNK	54.500	27.883	200	174	8.0	174	7.0	174	10.0	
WNG	53.743	9.073	50	224	6.0	224	3.0	224	7.0	
PET2	53.100	158.633	110	152	9.0	152	4.0	152	6.0	
WIT	52.813	6.668	20	51	7.0	51	3.0	51	6.0	
IRK	52.167	104.450	540	169	11.0	169	5.0	169	8.0	
NGK	52.072	12.675	78	234	7.0	234	3.0	234	7.0	
VAL	51.933	349.750	8	198	7.0	198	3.0	188	7.0	
BEL	51.837	20.792	180	224	7.0	224	3.0	224	7.0	
HAD	50.995	355.517	91	234	7.0	234	3.0	234	6.0	
KIV2	50.717	30.300	100	126	8.0	126	4.0	126	8.0	
MAB	50.298	5.682	440	56	6.0	56	2.0	56	5.0	

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
DOU	50.097	4.595	208	137	6.0	137	7.0	137	5.0
LVV	49.900	23.750	400	21	8.0	21	6.0	21	8.0
KGD	49.817	73.083	0	42	23.0	42	35.0	46	35.0
GLN	49.645	262.880	229	65	10.0	65	8.0	64	8.0
MZL	49.600	117.400	682	55	8.0	55	5.0	55	5.0
BDV	49.080	14.015	496	79	6.0	79	3.0	79	6.0
VIC	48.517	236.583	197	212	7.0	212	4.0	212	6.0
WIK	48.265	16.318	400	70	6.0	70	3.0	70	5.0
NEW	48.263	242.880	780	234	7.0	234	4.0	236	7.0
FUR	48.165	11.277	570	224	8.0	224	3.0	224	6.0
CLF	48.023	2.260	145	224	7.0	224	3.0	224	6.0
HRB	47.873	18.190	120	147	25.0	147	4.0	135	9.0
NCK	47.633	16.717	160	71	7.0	71	5.0	71	6.0
STJ	47.595	307.323	100	202	11.0	202	6.0	202	7.0
YSS	46.950	142.717	70	11	6.0	11	8.0	11	7.0
THY	46.900	17.893	190	114	9.0	114	12.0	114	10.0
ODE	46.783	30.883	140	141	10.0	141	52.0	141	6.0
CTS	46.047	11.650	1200	16	6.0	16	6.0	16	4.0
NKK	45.800	62.100	0	14	10.0	14	9.0	14	6.0
OTT	45.400	284.450	75	212	8.0	212	4.0	212	7.0
SUA	44.680	26.253	84	70	8.0	70	5.0	70	5.0
GCK	44.633	20.767	231	21	7.0	21	2.0	21	5.0
MMB	43.907	144.193	39	224	10.0	224	5.0	224	7.0
CNH2	43.827	125.299	234	20	10.0	20	8.0	20	6.0
WMQ	43.817	87.697	970	21	10.0	21	3.0	19	5.0
VLA	43.683	132.167	300	105	73.0	105	337.0	108	6.0
AAA	43.250	76.917	1300	96	11.0	96	27.0	98	8.0
PAG	42.515	24.177	556	162	9.0	162	3.0	162	5.0
AQU	42.383	13.317	630	219	9.0	219	4.0	219	6.0
TFS	42.092	44.705	980	228	12.0	228	5.0	228	11.0
TKT	41.333	69.617	810	75	13.0	75	7.0	81	19.0
ISK	41.063	29.062	130	150	121.0	150	9.0	150	8.0
EBR	40.820	0.493	50	4	6.0	4	3.0	4	3.0
BMT	40.300	116.200	183	33	15.0	33	5.0	33	28.0
COI	40.222	351.578	100	27	11.0	27	54.0	27	12.0
BOU	40.138	254.762	1650	224	8.0	224	5.0	224	7.0
BJI	40.040	116.175	69	20	11.0	20	4.0	20	9.0
ANK	39.891	32.764	905	7	22.0	7	83.0	7	16.0
TOL	39.883	355.953	501	2	9.0	2	4.0	2	4.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
SPT	39.547	355.650	922	46	7.0	46	3.0	46	5.0
KSH	39.500	76.000	1320	40	9.0	40	3.0	40	6.0
ESA	39.234	141.358	396	7	7.0	7	3.0	7	2.0
DLN	39.100	121.500	131	2	14.0	2	1.0	2	8.0
MIZ	39.010	141.080	120	42	10.0	42	4.0	42	5.0
FRD	38.205	282.627	69	191	8.0	191	5.0	191	6.0
PEG2	38.080	23.933	495	4	8.0	4	8.0	4	7.0
PEG1	38.047	23.866	495	7	8.0	7	6.0	7	17.0
ASH	37.950	58.108	570	74	13.0	74	13.0	75	12.0
FRN	37.090	240.280	331	186	9.0	186	4.0	192	6.0
ALM	36.850	357.533	65	12	12.0	12	5.0	12	18.0
SFS2	36.500	353.883	65	9	9.0	9	15.0	9	3.0
GLM	36.400	94.900	2802	6	9.0	6	2.0	6	5.0
KAK	36.230	140.190	26	224	11.0	224	6.0	224	5.0
LZH	36.087	103.845	1560	54	12.0	54	5.0	54	8.0
TUL	35.912	264.212	328	5	75.0	5	156.0	5	163.0
KNZ	35.253	139.960	342	21	8.0	21	6.0	21	4.0
QIX	34.600	108.200	893	16	9.0	16	4.0	16	6.0
AVE	33.300	352.583	230	6	8.0	6	9.0	6	9.0
HTY	33.122	139.802	220	157	11.0	157	7.0	157	5.0
TUC1	32.247	249.167	770	177	10.0	177	6.0	177	6.0
TUC2	32.180	249.270	924	42	7.0	42	6.0	42	5.0
BGY	31.730	35.210	750	73	14.0	73	7.0	73	14.0
AMT1	31.550	34.917	350	55	10.0	55	5.0	55	9.0
KNY	31.420	130.882	106	224	11.0	224	7.0	224	4.0
SSH	31.097	121.187	100	97	20.0	97	183.0	97	6.0
CHD	31.000	103.700	653	57	9.0	57	8.0	57	4.0
WHN	30.528	114.559	42	60	10.0	60	3.0	60	24.0
SAB	30.363	77.798	498	21	10.0	21	9.0	21	38.0
BSL	30.350	270.360	8	148	11.0	148	22.0	149	38.0
QUE	30.187	66.950	1750	20	20.0	20	24.0	20	35.0
LSA	29.700	91.150	3658	15	12.0	15	10.0	15	10.0
ELT	29.670	34.950	250	17	12.0	17	6.0	17	6.0
MLT	29.515	30.892	120	14	126.0	14	377.0	14	184.0
DLR	29.487	259.085	355	192	12.0	192	5.0	189	6.0
TEN	28.483	343.733	310	13	9.0	13	5.0	13	3.0
GUI	28.320	343.570	848	30	9.0	30	3.0	30	5.0
CBI	27.083	142.167	154	84	11.0	84	10.0	87	5.0
JAI	26.917	75.800	438	84	18.0	84	7.0	85	7.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
SHL	25.567	91.883	130	68	16.0	68	12.0	92	10.0
LNP	25.000	121.167	100	174	13.0	170	9.0	166	8.0
KRC	24.950	67.140	0	41	37.0	41	36.0	41	32.0
QZH	24.900	118.600	10	16	7.0	16	5.0	16	3.0
THJ	24.000	102.700	1820	128	8.0	128	3.0	128	4.0
UJJ	23.183	75.783	499	122	19.0	122	16.0	128	13.0
GZH	23.093	113.343	11	18	9.0	18	7.0	18	8.0
HVN3	22.983	277.683	0	10	61.0	10	17.0	11	61.0
TAM	22.792	5.527	1373	88	13.0	88	25.0	88	8.0
CPA	22.350	103.833	0	4	61.0	4	40.0	2	185.0
HON3	21.320	201.998	3	189	10.0	189	6.0	189	5.0
NGR	21.150	79.083	312	12	8.0	12	13.0	12	11.0
PHU	21.033	105.967	5	22	7.0	22	3.0	27	25.0
TEO	19.747	260.818	2280	20	18.0	20	35.0	20	16.0
QGZ	19.000	109.800	227	28	10.0	28	5.0	28	5.0
ABG	18.638	72.872	7	212	13.0	212	7.0	212	10.0
SJG2	18.117	293.850	400	226	40.0	226	97.0	225	217.0
VSK	17.670	83.320	3	12	4.0	12	27.0	12	27.0
HYB	17.413	78.555	500	25	8.0	25	13.0	25	6.0
MBO	14.392	343.042	5	235	12.0	235	5.0	235	5.0
MUT	14.375	121.015	62	9	24.0	9	13.0	9	28.0
GUA	13.583	144.870	150	201	12.0	201	4.0	197	6.0
PND	11.920	79.920	6	17	9.0	17	17.0	17	16.0
DLT	11.917	108.417	0	8	9.0	8	44.0	12	112.0
ANN	11.367	79.683	0	119	13.0	119	17.0	123	18.0
CRP	10.440	275.089	1030	8	15.0	8	16.0	8	17.0
KOD	10.230	77.463	2323	17	17.0	17	15.0	17	143.0
BCL	9.283	105.733	0	1	2.0	1	39.0	2	88.0
AAE1	9.030	38.767	2441	149	19.0	149	16.0	149	23.0
ETT	9.000	78.000	47	32	8.0	32	9.0	32	9.0
TRD2	8.483	76.950	300	84	38.0	84	23.0	84	14.0
FUQ	5.470	286.263	2543	21	15.0	21	11.0	21	16.0
BNG	4.437	18.565	390	224	15.0	224	6.0	224	17.0
TUN	3.510	98.560	0	6	78.0	6	16.0	6	201.0
KOU	2.210	307.269	10	36	10.0	36	5.0	36	8.0
TTB2	-1.205	311.483	10	51	14.0	51	14.0	52	23.0
TNG	-6.167	106.633	14	20	29.0	20	29.0	20	43.0
ASC	-7.949	345.617	177	56	10.0	56	4.0	56	3.0
LUA3	-8.917	13.167	53	13	23.0	13	26.0	13	15.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
PMG	-9.408	147.152	80	134	12.0	134	3.0	134	4.0
ANC	-11.690	282.852	49	4	55.0	4	11.0	4	13.0
HUA	-12.045	284.660	3313	85	15.0	85	8.0	86	7.0
THJ	24.000	102.700	1820	35	12.0	35	2.0	35	5.0
API	-13.807	188.225	2	165	12.0	165	6.0	169	11.0
NMP	-15.087	39.253	376	17	22.0	17	7.0	18	8.0
PTY	-17.250	292.050	3789	3	377.0	3	156.0	3	56.0
PPT	-17.568	210.425	90	227	12.0	227	5.0	227	4.0
TAN	-18.917	47.550	1375	134	10.0	134	7.0	107	6.0
TSU	-19.217	17.700	83	195	14.0	195	10.0	193	7.0
CTA	-20.100	146.300	370	109	12.0	109	3.0	109	4.0
LQA	-22.103	294.395	3450	21	10.0	21	5.0	3	70.0
LRM	-22.220	114.100	4	106	12.0	106	7.0	105	8.0
VSS	-22.400	316.350	457	43	18.0	43	41.0	43	32.0
ASP	-23.762	133.883	557	64	11.0	64	2.0	64	4.0
HBK	-25.882	27.707	1522	225	13.0	225	5.0	215	8.0
LMM	-25.917	32.583	50	53	15.0	53	4.0	53	7.0
PIL	-31.667	296.117	336	68	11.0	68	4.0	68	7.0
GNA	-31.783	115.950	60	202	9.0	202	4.0	202	6.0
HER	-34.425	19.225	26	235	10.0	235	4.0	235	7.0
LAS	-35.007	302.310	20	17	17.0	17	14.0	17	9.0
CNB	-35.315	149.363	850	214	9.0	214	3.0	214	5.0
AMS	-37.833	77.567	50	209	8.0	209	2.0	209	8.0
TRW	-43.268	294.618	30	51	9.0	51	7.0	51	4.0
EYR	-43.417	172.350	390	224	8.0	224	3.0	224	6.0
CZT	-46.433	51.867	160	234	7.0	234	3.0	234	7.0
PAF	-49.350	70.200	50	233	9.0	233	5.0	233	8.0
PST	-51.703	302.110	135	55	11.0	55	25.0	55	6.0
GTV	-54.283	323.516	580	15	9.0	15	5.0	15	5.0
MCQ	-54.500	158.950	4	72	6.0	72	4.0	72	8.0
ARC	-62.160	301.522	6	180	10.0	180	13.0	176	10.0
LIV	-62.662	299.605	19	31	6.0	31	2.0	31	5.0
AIA	-65.245	295.742	10	129	8.0	129	4.0	129	15.0
CSY	-66.283	110.533	40	125	53.0	125	21.0	123	57.0
MIR	-66.550	93.017	20	81	23.0	81	27.0	81	39.0
DRV	-66.665	140.007	40	233	22.0	233	9.0	233	14.0
MAW	-67.605	62.882	12	125	9.0	125	9.0	125	16.0
MOL	-67.667	45.850	0	17	28.0	17	13.0	17	32.0
DVS	-68.583	77.967	29	131	44.0	131	22.0	132	27.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
SYO	-69.007	39.590	0	10	11.0	10	17.0	10	5.0
SNA3	-70.316	354.416	50	96	26.0	96	82.0	96	12.0
GVN2	-70.650	351.250	42	6	11.0	6	46.0	6	5.0
NVL	-70.760	11.816	460	8	14.0	8	15.0	8	41.0
TNB	-74.683	164.117	28	9	11.0	9	18.0	9	15.0
SBA	-77.850	166.783	15	223	13.0	223	20.0	223	18.0
VOS	-78.450	106.867	3500	78	17.0	78	18.0	78	29.0
<i>Repeat Station (multiple visits)</i>									
Huse	65.643	345.723	0	2	1.0	2	1.0	2	4.0
Patr	65.557	336.018	68	3	5.0	3	6.0	3	6.0
Gudn	63.578	339.840	6	7	2.0	7	2.0	7	6.0
1001	46.150	19.567	0	4	1.0	4	1.0	4	3.0
Yagi	44.440	141.427	0	3	4.0	3	5.0	3	2.0
1160	44.400	22.583	4	4	2.0	4	2.0	4	2.0
1126	43.300	21.833	7	4	2.0	4	2.0	4	2.0
3001	42.600	19.933	10	4	3.0	4	2.0	4	2.0
1143	42.500	22.417	2	4	3.0	4	4.0	4	3.0
Hiro	42.267	143.300	2	3	3.0	3	5.0	3	3.0
MELG	42.120	351.772	6	2	2.0	2	18.0	2	10.0
BRAG	41.857	353.293	0	2	6.0	2	4.0	2	2.0
CHAV	41.727	352.535	34	4	10.0	4	7.0	4	21.0
VIAN	41.723	351.173	0	4	7.0	4	5.0	4	3.0
BRAG	41.590	351.562	0	2	2.0	2	2.0	2	6.0
MIRA	41.515	353.728	74	3	4.0	3	12.0	3	1.0
MIRA	41.472	352.772	37	2	6.0	2	8.0	2	6.0
ALIJ	41.328	352.542	0	2	7.0	2	5.0	2	3.0
VILA	41.277	352.280	0	2	2.0	2	3.0	2	2.0
PORT	41.235	351.327	0	5	9.0	5	9.0	5	8.0
LAME	41.083	352.197	143	2	14.0	2	5.0	2	5.0
ESPI	40.973	351.355	0	2	2.0	2	7.0	2	2.0
FIGU	40.943	353.072	0	3	6.0	3	6.0	3	10.0
AVEI	40.653	351.262	0	2	2.0	2	8.0	2	1.0
COVI	40.280	352.522	0	4	3.0	4	9.0	4	6.0
LOUS	40.143	351.762	0	2	9.0	2	4.0	2	7.0
MONF	39.973	353.097	0	2	3.0	2	1.0	2	4.0
LEIR	39.782	351.182	0	2	2.0	2	3.0	2	8.0
CAST	39.467	352.548	0	6	9.0	6	15.0	6	13.0
CALD	39.413	350.803	16	6	22.0	6	12.0	6	27.0
CHAM	39.343	351.540	0	4	11.0	4	16.0	4	12.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
Sizu	38.630	141.530	26	2	5.0	2	7.0	2	3.0
PALM	38.547	351.032	25	4	12.0	4	17.0	4	12.0
EVOR	38.528	352.110	0	3	10.0	3	25.0	3	15.0
HORT	38.518	331.292	17	2	27.0	2	5.0	2	10.0
BEJA	38.135	352.077	30	3	3.0	3	10.0	3	10.0
BEJA	38.060	352.127	0	2	5.0	2	14.0	2	4.0
Aika	38.019	138.227	10	2	7.0	2	8.0	2	1.0
BEJA	37.882	352.137	0	6	3.0	6	5.0	6	22.0
PONT	37.743	334.297	0	2	20.0	2	4.0	2	18.0
PRAI	37.193	352.533	0	2	27.0	2	2.0	2	20.0
PORT	37.150	351.420	5	2	10.0	2	11.0	2	12.0
PORT	37.127	351.433	35	3	7.0	3	14.0	3	18.0
FARO	37.015	352.040	0	3	29.0	3	10.0	3	20.0
SANT	36.972	334.825	0	2	16.0	2	1.0	2	22.0
Taiz	33.579	135.877	32	2	3.0	2	5.0	2	2.0
Bare	32.033	34.950	0	3	4.0	3	6.0	3	8.0
Shde	30.417	34.950	0	3	6.0	3	6.0	3	8.0
534V	10.433	286.757	0	2	8.0	2	9.0	2	12.0
161A	10.061	286.755	0	2	5.0	2	3.0	2	22.0
96A_	6.397	286.722	0	2	13.0	2	3.0	2	497.0
102A	5.532	286.664	0	2	25.0	2	5.0	2	11.0
105A	5.260	287.549	0	2	13.0	2	11.0	2	115.0
34AB	3.824	282.998	0	2	5.0	2	4.0	2	57.0
31A_	2.450	283.384	0	2	13.0	2	1.0	2	29.0
27A_	1.813	281.241	0	2	6.0	2	76.0	2	23.0
121A	0.511	283.491	0	2	1.0	2	1.0	2	1.0
FORT	-3.870	321.590	0	2	7.0	2	3.0	2	2.0
_MPA	-17.633	24.183	0	1	1.0	1	2.0	2	5.0
_Ora	-21.267	25.317	100	2	2.0	2	3.0	2	1.0
ITAP	-23.967	311.137	0	2	2.0	2	35.0	2	92.0
Bird	-25.901	139.349	0	2	1.0	2	1.0	2	1.0
RIO_	-32.090	307.838	2	3	29.0	3	11.0	3	29.0
Hami	-37.861	175.327	1	2	2.0	2	2.0	2	1.0
New_	-39.006	174.179	20	2	2.0	2	1.0	2	1.0
Ohak	-40.211	175.387	0	2	1.0	2	1.0	2	2.0
Wood	-41.522	173.874	1	2	1.0	2	1.0	2	5.0
Moun	-43.773	170.123	4	2	1.0	2	1.0	2	1.0
Oama	-44.974	171.093	37	2	1.0	2	1.0	2	1.0
Laud	-45.037	169.682	21	2	1.0	2	6.0	2	4.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]	
Mana	-45.533	167.646	17	2	3.0	2	6.0	2	1.0	
AMER	-46.387	51.809	4	4	4.0	4	5.0	4	4.0	
Inve	-46.413	168.323	0	2	1.0	2	3.0	2	1.0	
Port	-48.678	69.025	0	2	2.0	2	11.0	2	2.0	
KGL	-49.352	70.215	2	2	1.0	2	3.0	2	2.0	
Obse	-49.420	69.889	2	3	6.0	3	6.0	3	4.0	
PORT	-49.552	69.818	0	4	55.0	4	38.0	4	7.0	
_VAN	-52.547	169.148	1	2	27.0	2	1.0	2	21.0	
_GAR	-52.558	169.145	1	2	4.0	2	10.0	2	9.0	
_VEN	-52.564	169.148	0	3	34.0	3	17.0	3	12.0	
<i>Repeat Station (two visits)</i>										
Fort	47.223	291.346	0	1	3.0	1	1.0	1	2.0	
Marq	46.538	272.577	0	1	3.0	1	1.0	1	7.0	
Huro	44.398	261.782	39	1	1.0	1	1.0	1	1.0	
Huro	44.378	261.772	0	1	1.0	1	1.0	1	1.0	
_RUM	43.840	141.592	16	1	6.0	1	1.0	1	3.0	
_NEM	43.203	145.075	44	1	5.0	1	4.0	1	2.0	
_IWA	43.077	141.850	10	1	5.0	1	50.0	1	6.0	
_2	28.503	47.867	0	1	12.0	1	8.0	1	12.0	
Loga	41.763	248.343	36	1	4.0	1	3.0	1	3.0	
King	41.488	288.455	1	1	6.0	1	14.0	1	1.0	
_SHI	41.332	141.372	78	1	5.0	1	5.0	1	3.0	
Duns	41.227	237.687	0	1	2.0	1	2.0	1	1.0	
WISE	40.725	352.107	0	1	2.0	1	6.0	1	2.0	
CERN	40.162	351.527	0	1	1.0	1	9.0	1	10.0	
LAGE	38.780	332.905	0	1	4.0	1	3.0	1	10.0	
_ISH	38.462	141.248	44	1	1.0	1	3.0	1	6.0	
AMAR	38.180	352.797	0	1	13.0	1	20.0	1	23.0	
SINE	37.938	351.187	0	1	11.0	1	1.0	1	5.0	
SAO	37.547	351.272	2	1	7.0	1	3.0	1	3.0	
LAGO	37.123	351.325	0	1	7.0	1	11.0	1	20.0	
_ASA	36.432	138.602	0	1	1.0	1	4.0	1	2.0	
Ama	36.093	133.104	20	1	1.0	1	10.0	1	3.0	
_TOT	35.413	134.312	16	1	2.0	1	2.0	1	5.0	
_KUR	35.410	133.997	0	1	4.0	1	1.0	1	6.0	
_OKA	34.778	133.790	0	1	1.0	1	1.0	1	8.0	
_MIK	34.665	137.223	4	1	27.0	1	281.0	1	6.0	
Toyo	34.376	129.314	0	1	3.0	1	7.0	1	1.0	
Fort	34.018	279.090	15	1	9.0	1	1.0	1	2.0	
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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
Fort	34.017	279.085	16	1	7.0	1	1.0	1	4.0
_KOU	33.642	133.813	0	1	6.0	1	11.0	1	6.0
_NAK	33.525	131.062	38	1	1.0	1	1.0	1	2.0
_Isr	33.050	35.450	49	1	7.0	1	1.0	1	1.0
SanD	32.887	242.928	0	1	1.0	1	4.0	1	2.0
_Isr	32.883	35.367	25	1	27.0	1	8.0	1	81.0
_Isr	32.733	35.033	0	1	4.0	1	13.0	1	9.0
_Isr	32.500	35.433	0	1	10.0	1	9.0	1	13.0
_Isr	32.250	35.017	0	1	44.0	1	13.0	1	1.0
_Isr	32.167	35.533	0	1	2.0	1	13.0	1	1.0
_Isr	31.683	35.450	0	1	10.0	1	8.0	1	1.0
_Isr	31.433	34.767	0	1	21.0	1	1.0	1	7.0
Wayc	31.255	277.600	0	1	1.0	1	4.0	1	11.0
_Isr	31.217	34.317	0	1	3.0	1	8.0	1	1.0
_Isr	31.183	35.317	0	1	5.0	1	8.0	1	3.0
Broo	31.030	270.830	11	1	8.0	1	1.0	1	1.0
Lama	30.925	270.613	11	1	4.0	1	1.0	1	1.0
_Isr	30.867	34.433	0	1	8.0	1	9.0	1	4.0
_Isr	30.850	34.783	0	1	10.0	1	5.0	1	2.0
_Isr	30.817	35.283	0	1	4.0	1	16.0	1	6.0
_TAN	30.733	131.067	0	1	5.0	1	5.0	1	2.0
_Isr	30.500	34.617	0	1	7.0	1	5.0	1	9.0
_Isr	30.117	34.717	0	1	4.0	1	2.0	1	17.0
_Isr	30.083	35.133	0	1	3.0	1	2.0	1	9.0
_Isr	29.533	34.917	0	1	1.0	1	15.0	1	8.0
_29	28.932	47.402	0	1	18.0	1	2.0	1	3.0
_4	28.686	45.208	0	1	19.0	1	3.0	1	5.0
_2	28.503	47.867	0	0	1.0	0	1.0	2	1.0
_B	28.475	45.693	0	1	20.0	1	1.0	1	4.0
_4	28.467	47.017	0	1	19.0	1	3.0	1	4.0
_B	28.247	46.341	0	1	19.0	1	2.0	1	4.0
_	27.548	46.379	0	0	1.0	0	1.0	1	6.0
_43	27.475	43.332	0	0	1.0	0	1.0	1	6.0
_4	27.268	44.510	0	1	15.0	1	22.0	1	2.0
_	27.190	47.360	0	0	1.0	0	1.0	1	6.0
_3	27.163	45.705	0	1	20.0	1	2.0	1	7.0
_43	27.015	43.713	0	0	1.0	0	1.0	1	8.0
_4	26.883	45.282	0	1	27.0	1	15.0	1	8.0
_3	26.862	46.495	0	0	1.0	0	1.0	1	7.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
---	26.720	45.337	0	1	20.0	1	1.0	1	8.0
Isig	24.351	124.224	0	1	3.0	1	3.0	1	6.0
Mina	24.295	153.983	0	1	9.0	1	6.0	1	2.0
_1Ca	22.677	106.231	0	1	1.0	1	4.0	1	3.0
_2Ph	22.397	103.530	157	0	1.0	0	1.0	1	2.0
_3Sa	22.333	103.833	0	1	1.0	1	1.0	1	1.0
_4Th	22.297	106.455	0	0	1.0	0	1.0	1	3.0
_5Ph	22.197	104.560	0	0	1.0	0	1.0	1	1.0
_6Ba	22.114	105.854	0	0	1.0	0	1.0	1	1.0
_7Mu	21.948	103.142	0	1	3.0	1	1.0	1	4.0
_8La	21.813	106.713	0	1	1.0	1	1.0	1	2.0
_9Ye	21.713	104.921	1	1	1.0	1	1.0	1	2.0
12Mo	21.609	107.944	65	1	2.0	1	1.0	1	5.0
10Tu	21.581	103.424	3	0	1.0	0	1.0	1	2.0
11Th	21.546	105.864	0	0	1.0	0	1.0	1	1.0
13Di	21.390	103.017	2	1	1.0	1	40.0	1	15.0
14Ph	21.383	105.356	1	0	1.0	0	1.0	1	2.0
15Ti	21.338	107.375	65	1	1.0	1	5.0	1	2.0
16So	21.330	103.942	1	1	4.0	1	5.0	1	1.0
17Ba	21.271	106.128	1	0	1.0	0	1.0	1	3.0
18No	21.222	105.804	0	1	1.0	1	1.0	1	4.0
19Ba	21.125	104.210	0	0	1.0	0	1.0	1	1.0
20Ph	21.030	105.950	2	1	1.0	1	3.0	1	3.0
21Ca	20.962	107.148	0	1	5.0	1	24.0	1	9.0
22Ha	20.919	106.674	76	1	1.0	1	1.0	1	3.0
23Mo	20.844	104.670	0	0	1.0	0	1.0	1	7.0
24Ho	20.732	105.326	0	1	19.0	1	16.0	1	11.0
25Na	20.450	106.083	0	0	1.0	0	1.0	1	1.0
26Gi	20.345	105.928	0	1	1.0	1	11.0	1	2.0
27Sa	19.725	105.889	0	0	1.0	0	1.0	1	8.0
28Ho	19.268	105.725	0	0	1.0	0	1.0	1	2.0
29Vi	18.676	105.691	0	1	9.0	1	7.0	1	2.0
30Ky	18.051	106.324	0	0	1.0	0	1.0	1	1.0
31Do	17.495	106.625	0	1	3.0	1	6.0	1	2.0
32Gi	16.937	107.072	0	1	30.0	1	33.0	1	6.0
Podo	16.680	345.037	0	1	3.0	1	3.0	1	1.0
Rich	16.437	344.343	0	1	1.0	1	24.0	1	1.0
33Hu	16.422	107.578	0	1	1.0	1	19.0	1	2.0
34Da	16.060	108.197	0	1	9.0	1	1.0	1	3.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
Mata	15.600	346.672	0	0	1.0	0	1.0	1	2.0
Ling	15.398	344.898	0	1	4.0	1	2.0	1	2.0
35Bi	15.276	108.771	0	1	1.0	1	21.0	1	3.0
36Sa	14.656	109.065	0	1	1.0	1	5.0	1	1.0
Mopt	14.512	355.910	0	1	1.0	1	11.0	1	3.0
37Pl	13.977	108.028	19	1	5.0	1	2.0	1	5.0
38An	13.974	108.732	0	1	2.0	1	5.0	1	1.0
39Qu	13.734	109.209	0	1	3.0	1	4.0	1	2.0
Kita	13.070	350.507	14	1	11.0	1	3.0	1	2.0
40De	12.943	109.505	0	1	2.0	1	23.0	1	6.0
42M'	12.752	108.748	53	1	9.0	1	9.0	1	9.0
41Bu	12.699	108.148	0	1	2.0	1	14.0	1	9.0
Bama	12.657	352.068	0	1	1.0	1	8.0	1	3.0
Kedo	12.565	347.783	0	1	9.0	1	1.0	1	6.0
43Nh	12.232	109.183	0	1	14.0	1	15.0	1	1.0
487A	12.184	287.859	0	1	2.0	1	1.0	1	42.0
44Da	11.945	108.483	0	1	5.0	1	13.0	1	2.0
61PU	11.923	288.726	30	1	5.0	1	5.0	1	37.0
45Ph	11.532	108.934	0	1	6.0	1	7.0	1	10.0
184A	11.469	287.406	30	1	8.0	1	1.0	1	4.0
46Ba	11.411	107.616	40	1	18.0	1	5.0	1	49.0
47Ta	11.291	106.099	0	1	24.0	1	4.0	1	3.0
48Ba	11.200	108.334	0	1	9.0	1	7.0	1	5.0
49Xu	10.912	107.428	70	1	2.0	1	10.0	1	3.0
50Sa	10.813	106.641	20	1	11.0	1	7.0	1	8.0
51Ta	10.546	106.399	0	1	4.0	1	1.0	1	11.0
6A_C	10.453	284.486	0	1	40.0	1	5.0	1	42.0
52Vu	10.390	107.119	0	1	31.0	1	6.0	1	4.0
53Ca	9.971	105.740	0	1	12.0	1	9.0	1	1.0
20A_	9.317	284.586	0	1	3.0	1	32.0	1	11.0
54Ba	9.300	105.711	0	1	1.0	1	7.0	1	1.0
55Ca	9.177	105.176	0	0	1.0	0	1.0	1	3.0
43AE	9.054	286.012	0	1	3.0	1	5.0	1	15.0
56Ra	8.605	105.007	0	1	170.0	1	11.0	1	5.0
195A	7.983	284.804	0	1	34.0	1	13.0	1	30.0
8A_C	7.928	287.496	0	1	47.0	1	6.0	1	830.0
48BA	7.068	289.270	0	1	45.0	1	17.0	1	125.0
Pohn	6.984	158.202	0	1	3.0	1	1.0	1	9.0
282_	6.961	284.574	0	1	20.0	1	7.0	1	25.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
4C_G	6.289	284.562	0	1	8.0	1	9.0	1	167.0
287_	5.738	284.397	0	1	3.0	1	50.0	1	15.0
101_	5.537	286.660	0	1	41.0	1	43.0	1	35.0
Adio	5.325	355.867	0	1	18.0	1	13.0	1	4.0
507_	5.300	287.613	0	1	23.0	1	13.0	1	77.0
258A	5.075	285.387	0	1	5.0	1	6.0	1	29.0
502_	5.026	286.549	0	1	19.0	1	13.0	1	24.0
274_	4.604	284.364	0	1	1.0	1	4.0	1	26.0
100_	4.422	284.806	0	1	10.0	1	1.0	1	76.0
506_	4.200	285.566	0	1	12.0	1	12.0	1	14.0
392_	3.881	292.082	0	1	1.0	1	13.0	1	12.0
_16A	2.978	284.691	0	1	1.0	1	19.0	1	91.0
82_E	2.140	283.038	0	1	19.0	1	2.0	0	1.0
111S	1.881	283.750	0	1	7.0	1	1.0	1	68.0
28B_	1.800	281.213	0	1	14.0	1	174.0	1	25.0
493_	1.592	284.426	0	1	5.0	1	9.0	1	62.0
494A	1.340	288.049	0	1	52.0	1	4.0	1	117.0
122A	0.518	283.469	0	1	9.0	1	4.0	1	19.0
58B_	-0.194	285.228	0	1	35.0	1	114.0	1	58.0
NAI	-1.333	36.817	1670	1	3.0	1	27.0	1	18.0
431L	-1.346	290.404	0	1	15.0	1	2.0	1	51.0
Momo	-2.067	147.407	0	1	4.0	1	22.0	1	40.0
SAO_	-2.505	315.775	0	1	32.0	1	6.0	1	9.0
Kavi	-2.580	150.805	0	1	2.0	1	2.0	1	11.0
113B	-2.886	290.254	0	1	24.0	1	8.0	1	2.0
59AL	-4.192	290.075	0	1	30.0	1	14.0	1	1.0
60CL	-4.217	290.048	0	1	27.0	1	3.0	1	5.0
NATA	-5.768	324.807	0	1	6.0	1	6.0	1	1.0
NATA	-5.770	324.810	0	1	19.0	1	1.0	1	10.0
Arop	-6.305	155.725	0	1	6.0	1	16.0	1	87.0
_Rec	-8.080	325.100	0	1	15.0	1	1.0	1	4.0
PORT	-8.700	296.098	0	1	1.0	1	4.0	1	3.0
Honi	-9.424	160.047	3	1	14.0	1	9.0	1	2.0
Cook	-15.446	145.188	0	1	1.0	1	3.0	1	1.0
CHIR	-15.997	28.897	0	1	1.0	1	6.0	1	1.0
MUSE	-16.250	31.250	384	1	5.0	1	4.0	1	3.0
KOTW	-17.017	32.633	379	1	1.0	1	1.0	1	1.0
RUAC	-17.417	14.375	0	1	2.0	1	6.0	1	2.0
BING	-17.643	27.322	36	1	1.0	1	5.0	1	1.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
HARA	-17.833	31.033	0	1	3.0	1	4.0	1	1.0
GOKW	-18.250	29.008	0	1	7.0	1	2.0	1	26.0
MUTA	-18.950	32.633	0	1	3.0	1	1.0	1	3.0
OKAU	-19.150	15.908	400	1	1.0	1	5.0	1	1.0
TSUM	-19.600	20.517	38	1	2.0	1	1.0	1	5.0
MASV	-20.043	30.812	0	1	1.0	1	4.0	1	1.0
BULA	-20.140	28.517	0	1	2.0	1	3.0	1	1.0
Moun	-20.667	139.490	0	1	1.0	1	4.0	1	3.0
KALK	-20.902	16.180	0	1	3.0	1	6.0	1	3.0
CHIS	-20.983	32.167	0	1	1.0	1	2.0	1	1.0
WEST	-21.067	29.383	93	1	1.0	1	3.0	1	1.0
UGAB	-21.117	13.583	0	1	3.0	1	3.0	1	1.0
FRAN	-21.167	27.500	1	1	4.0	1	1.0	1	1.0
GHAN	-21.693	21.658	0	1	2.0	1	1.0	1	5.0
MESS	-22.370	30.047	135	1	1.0	1	5.0	1	2.0
GOBA	-22.455	18.987	0	1	2.0	1	1.0	1	3.0
WIND	-22.567	17.102	0	1	1.0	1	1.0	1	4.0
SWAK	-22.670	14.567	16	1	1.0	1	4.0	1	3.0
TOMB	-23.070	28.000	0	1	2.0	1	1.0	1	1.0
KHUT	-23.325	24.495	0	1	4.0	1	1.0	1	2.0
TSHA	-24.020	21.872	60	1	15.0	1	42.0	1	1.0
MICA	-24.163	30.837	0	1	1.0	1	1.0	1	1.0
POTG	-24.183	29.000	0	1	1.0	1	1.0	1	1.0
MARI	-24.605	17.972	105	1	1.0	1	1.0	1	2.0
UNIO	-24.713	19.890	0	1	1.0	1	3.0	1	3.0
SOSS	-24.733	15.350	0	1	2.0	1	3.0	1	1.0
BARB	-25.778	31.033	45	1	2.0	1	1.0	1	1.0
MMAB	-25.850	25.650	6	1	2.0	1	1.0	1	8.0
SEVE	-26.592	22.858	0	1	1.0	1	3.0	1	7.0
Quil	-26.615	144.257	0	1	1.0	1	7.0	1	1.0
KEET	-26.617	18.162	0	1	1.0	1	3.0	1	2.0
RIET	-26.733	20.040	0	1	1.0	1	1.0	1	1.0
PARY	-26.930	27.408	0	1	1.0	1	1.0	1	9.0
_PIE	-27.017	30.817	130	1	26.0	1	3.0	1	5.0
PIET	-27.075	30.887	135	1	2.0	1	1.0	1	2.0
REIT	-27.720	28.525	0	1	1.0	1	3.0	1	7.0
DUND	-28.123	30.298	130	1	4.0	1	5.0	1	1.0
ST_L	-28.348	32.425	0	1	4.0	1	8.0	1	3.0
UPIN	-28.423	21.298	88	1	2.0	1	3.0	1	7.0

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]	
WARM	-28.480	18.602	0	1	1.0	1	1.0	1	9.0	
ALEX	-28.568	16.525	46	1	1.0	1	1.0	1	2.0	
DOUG	-29.100	23.738	0	1	1.0	1	2.0	1	8.0	
LADY	-29.217	27.463	4	1	3.0	1	2.0	1	3.0	
More	-29.497	149.846	0	1	1.0	1	1.0	1	2.0	
UNDE	-29.785	29.490	0	1	1.0	1	1.0	1	1.0	
PORT	-30.000	308.817	0	1	21.0	1	8.0	1	5.0	
PORT	-30.030	308.825	0	1	22.0	1	8.0	1	1.0	
BLOU	-30.047	19.472	12	1	1.0	1	1.0	1	1.0	
Bour	-30.052	145.952	0	1	1.0	1	1.0	1	2.0	
HOND	-30.318	17.290	150	1	1.0	1	2.0	1	5.0	
PHIL	-30.387	25.252	0	1	1.0	1	1.0	1	7.0	
SANT	-30.875	304.478	0	1	1.0	1	6.0	1	1.0	
FONT	-30.952	23.153	27	1	1.0	1	4.0	1	7.0	
WILL	-31.348	20.937	0	1	3.0	1	2.0	1	4.0	
ELLI	-31.353	27.828	9	1	10.0	1	10.0	1	4.0	
VANR	-31.623	18.727	0	1	1.0	1	1.0	1	5.0	
CRAD	-32.162	25.633	0	1	2.0	1	3.0	1	5.0	
KARE	-32.790	20.538	0	1	1.0	1	2.0	1	6.0	
RIET	-32.892	23.153	0	1	1.0	1	3.0	1	6.0	
GONU	-32.937	28.030	3	1	1.0	1	1.0	1	5.0	
LANG	-33.063	18.080	0	1	1.0	1	1.0	1	3.0	
Espe	-33.686	121.821	0	1	1.0	1	1.0	1	6.0	
HUMA	-34.040	24.782	0	1	4.0	1	2.0	1	6.0	
BUFF	-34.313	18.452	0	1	1.0	1	1.0	1	4.0	
Augu	-34.331	115.156	2	1	1.0	1	1.0	1	7.0	
AGUL	-34.832	20.005	0	1	1.0	1	1.0	1	2.0	
Kait	-35.086	173.248	12	1	1.0	1	1.0	1	3.0	
When	-36.787	174.628	46	1	1.0	1	3.0	1	1.0	
TE	-37.739	177.675	6	1	1.0	1	1.0	1	1.0	
Whak	-37.922	176.909	9	1	2.0	1	4.0	1	1.0	
_TOL	-38.369	178.313	15	1	11.0	1	1.0	1	10.0	
Gisb	-38.661	177.971	5	1	51.0	1	18.0	1	28.0	
ST_P	-38.714	77.536	41	1	1.0	1	1.0	1	8.0	
_HUI	-39.248	174.472	48	1	3.0	1	5.0	1	1.0	
_KUR	-39.394	176.329	1	1	5.0	1	2.0	1	12.0	
Flin	-40.091	147.991	5	1	1.0	1	1.0	1	1.0	
West	-41.742	171.574	34	1	1.0	1	3.0	1	6.0	
Hoki	-42.720	170.990	1	1	1.0	1	1.0	1	9.0	

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Code	latitude	longitude	elev.	N_x	σ_x [nT]	N_y	σ_y [nT]	N_z	σ_z [nT]
Hoba	-42.817	147.500	1	1	1.0	1	2.0	1	2.0
Chat	-43.810	183.538	5	1	1.0	1	4.0	1	2.0
Te_R	-43.816	183.420	1	1	1.0	1	5.0	1	2.0
_BOG	-44.573	170.139	29	1	12.0	1	8.0	1	1.0
_MOE	-45.348	170.812	21	1	1.0	1	4.0	1	4.0
Amer	-46.388	51.799	1	1	14.0	1	3.0	1	7.0
MRN	-46.867	37.850	0	1	8.0	1	1.0	1	33.0
_TER	-50.539	166.216	1	1	3.0	1	1.0	1	1.0
_CAM	-52.548	169.154	1	1	9.0	1	1.0	1	3.0
PORT	-66.817	141.400	0	1	1.0	0	1.0	0	1.0

Appendix B

List of base line jumps

Table B.1: List of base line jumps, site changes and new instrumentation at permanent observatories during 1980 – 2000. The observatories are ordered by descending latitude, from north to south.

Obs.	Time	X [nT]	Y [nT]	Z [nT]	Note
ALE	1996.0	13	10	82	-
MBC	1996.0	-8	0	44	position reassessed
RES	1996.0	0	0	-7	new absolute pavilion
GDH2	1990.0	4	-4	15	new absolute pier
CBB	1996.0	0	-12	30	position reassessed
CMO2	1988.0	4	2	-33	Adjustment to calibration data from 01/01/1988
YKC2	1996.0	449	-165	311	-
DOB2	1999.0	11	15	9	position reassessed
NAQ	1989.0	2	10	30	new absolute pier
NAQ	1994.0	-1	0	-2	-
LER	1990.0	-5	1	8	site difference
LER	1996.0	0	0	-8	site difference
FCC	1996.0	0	0	10	position reassessed
SIT2	1988.0	2	1	5	Adjustment to calibration data
ESK	1990.0	-11	1	-22	Site difference 1 Jan 1990
ESK	1994.0	8	-1	23	Adjustment to account for incorrect estimate of site difference 1989/1990
PBQ	1996.0	-16	-6	-91	-
MEA	1996.0	0	0	17	-
NGK	1996.0	-4	0	0	-

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Obs.	Time	X [nT]	Y [nT]	Z [nT]	Note
VAL	1997.0	21	-5	32	Jump caused by move to new absolute hut
HAD	1980.0	0	0	6	Change of absolute pier
HAD	1990.0	6	-1	-23	Site difference 1 Jan 1990
MAB	1991.0	0	0	0	3 pillars to 1 & change in gyro-magnetic ratio-jump values unknown
GLN	1996.0	-11	0	-43	-
BDV	1998.0	-4	-3	2	-
VIC	1996.0	11	10	-35	-
NEW	1988.0	7	2	0	Adjustment to calibration data from 1988 Jan 1 onwards
OTT	1996.0	2	0	8	-
TFS	1988.0	27	2	-32	-
MIZ	1990.0	-12	2	35	Site change of Absolute Hut for H & Z on Jan. 1 1990
FRD	1988.0	1	6	2	Adjustment to calibration data from 1988 Jan 1 onwards
FRD	1997.0	1	0	0	Change of absolute pier
HTY	1981.0	-118	-365	-78	Site change
CNH2	1980.0	0	0	0	jump values unknown, assumed to be zero
TUC	1988.0	8	2	-65	Observatory moved
JAI	1980.0	53	-1	90	Baseline corrections applied to H & Z
UJJ	1980.0	83	-1	25	Baseline corrections applied to H & Z
HON3	1988.0	-1	4	0	Adjustment to calibration data from 1988 Jan 1 onwards
ABG	1991.0	-128	0	-113	Site differences caused by change of location of H & Z observation
SJG2	1988.0	1	1	7	Adjustment to calibration from 1/1/88, sign changed
HYB	1983.0	0	0	-22	-
GUA	1988.0	26	1	7	Adjustment to calibration data from 1988 Jan 1 onwards
LUA3	1981.0	58	-9	93	Corrections applied to H & Z

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Obs.	Time	X [nT]	Y [nT]	Z [nT]	Note
PPT	1996.0	61	253	-173	Obs moved some 100s of metres & new equipment installed during 1995
TSU	2000.0	-1	-10	1	New pillar references
HBK	2000.0	-34	11	-18	New pillar references
GNA	1994.0	7	-11	27	-
HER	2000.0	4	2	-16	New pillar references
PAF	1988.0	0	0	0	Observatory moved to new site
MIR	1989.0	0	0	0	-
DRV	1982.0	-8	-6	-11	DI-Flux replace QHM and absolute measurement moved
DRV	1995.0	0	0	-13	New absolute pier
NVL	1983.0	125	179	-40	Observatory moved to new site, March 1983
SBA	1988.0	-50	0	0	Instrumentation change 50 nT discontinuity in X

Appendix C

Flow Coefficients of the drifting flow

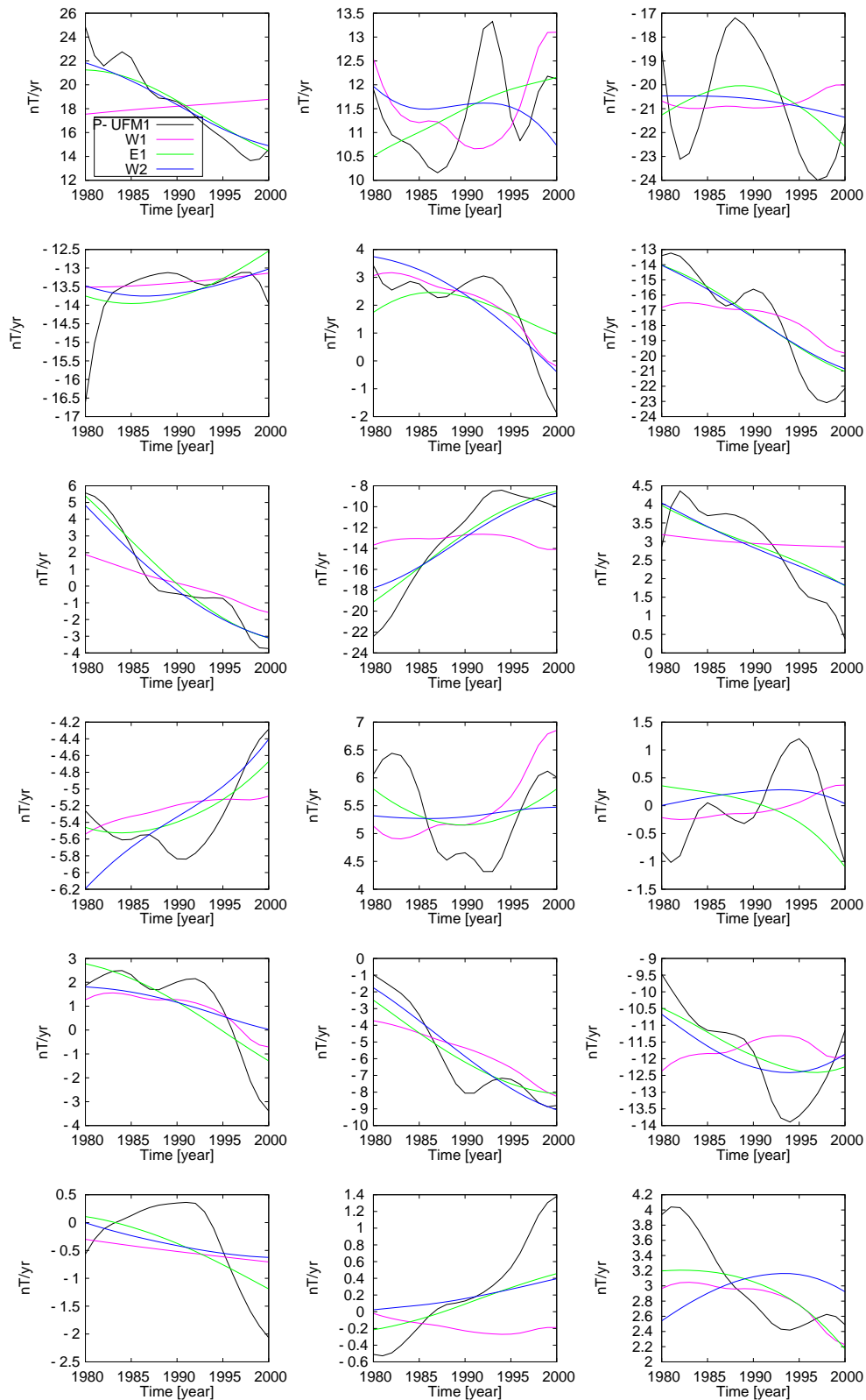


Figure C.1: Comparison of coefficients of the different drifting solutions. The black curves are the time-dependent model of the secular variation P-UFM1, pink line is the prediction of the westward solution W1, the green line the eastward solution E1 and the blue line the westward solution W2.