

Supplementary Materials

Optimal Strategy of a GPS Position Time Series

Analysis for Post-Glacial Rebound Investigation in Europe

Table S1. A set of 469 European GPS permanent stations with latitudes higher than 50°N which observations are processed by the Nevada Geodetic Laboratory in a PPP mode. Station name, a country the station is situated in, its longitude and latitude, the GPS vertical rates (in mm/yr) with their uncertainties computed using combination of power-law and white noise models and the present-day vertical uplift predicted by the GIA ICE-6G model are listed. Stations, for which the vertical rates are found to be statistically insignificant are marked in grey.

Station name	Country	Longitude	Latitude	GPS vertical rate (mm/yr) Uncertainty assuming PL+WN noise model			Vertical uplift predicted by GIA ICE-6G model (mm/yr)
AACH	Germany	6.0884	50.7679	0.97	+/-	0.43	-0.02
AARS	Belgium	4.8361	50.9633	0.49	+/-	0.47	-0.04
AAUC	Denmark	9.9873	57.0138	2.30	+/-	0.39	0.32
ABEP	UK	355.4287	52.1394	0.14	+/-	0.26	-0.24
ABER	UK	357.9198	57.1440	1.00	+/-	0.18	0.93
ABYW	UK	355.9956	52.4241	-0.10	+/-	0.07	-0.24
ADAR	UK	355.2590	52.7890	0.07	+/-	0.28	-0.24
ALDB	UK	1.6029	52.1532	1.03	+/-	0.38	-0.54
ALUK	Latvia	27.0719	57.4241	0.98	+/-	3.93	0.51
ALYT	Lithuania	24.0397	54.3933	1.45	+/-	1.74	0.34
AMBE	UK	357.0353	54.4342	1.92	+/-	0.28	0.63
AMER	UK	359.4406	51.6772	0.26	+/-	0.20	-0.37
AMST	Netherlands	4.8356	52.3873	-1.26	+/-	0.27	-0.53
AND1	Norway	16.1348	69.3261	1.95	+/-	0.27	-1.13
ANDO	Norway	16.0087	69.2784	1.82	+/-	0.48	-1.13
ANLX	UK	354.9208	51.6893	-0.06	+/-	0.42	-0.52
APEL	Netherlands	5.9623	52.2119	0.58	+/-	0.93	-0.48
APPL	UK	355.8003	51.0569	0.58	+/-	0.31	-0.46
ARDL	UK	0.9619	51.9158	-0.07	+/-	0.28	-0.36
ARGI	Faroe Islands	353.2165	61.9974	-0.29	+/-	0.49	-1.69
ARIS	UK	354.1505	56.9096	1.32	+/-	0.41	1.62
ARJ6	Sweden	18.1250	66.3180	8.79	+/-	2.29	6.18
ASAP	UK	356.5199	53.2513	0.33	+/-	0.29	0.09
ATTL	UK	0.9881	52.5168	-0.83	+/-	0.31	-0.48
AUDE	Germany	7.0018	50.1765	1.59	+/-	0.57	-0.01
AUR1	Germany	7.4760	53.4674	-0.16	+/-	0.48	-0.89
BADH	Germany	8.6099	50.2280	0.26	+/-	0.39	-0.02
BALV	Latvia	27.2652	57.1283	2.24	+/-	1.35	0.51
BAR3	UK	0.0969	51.5154	0.08	+/-	0.23	-0.37
BAR4	UK	352.4995	56.9544	0.53	+/-	0.67	0.64
BAT1	Belgium	5.8340	50.6374	0.06	+/-	0.32	-0.02
BAUS	Latvia	24.1861	56.4059	1.15	+/-	0.89	0.80
BEE1		356.3934	54.4910	0.93	+/-	0.46	0.84

BELF	UK	354.0681	54.5772	0.49	+/-	0.40	0.98
BENB	UK	352.6359	57.4731	0.88	+/-	0.72	0.88
BER3	Germany	13.3122	52.4893	0.60	+/-	0.62	-0.13
BERL	Belgium	5.1869	50.7007	0.22	+/-	0.31	-0.04
BEZA	Belgium	4.3156	51.3069	-0.93	+/-	0.46	-0.27
BIRZ	Lithuania	24.7583	56.2009	-0.08	+/-	0.71	0.78
BLAP	UK	356.9650	53.7769	0.48	+/-	0.24	0.09
BLER	France	1.8249	50.9586	-1.08	+/-	0.65	-0.19
BOGI	Poland	21.0352	52.4750	0.48	+/-	0.36	-0.31
BOGO	Poland	21.0353	52.4759	-0.07	+/-	0.30	-0.31
BONN	Germany	7.1588	50.6759	1.04	+/-	0.46	-0.01
BOR1	Poland	17.0735	52.2770	-0.13	+/-	0.21	-0.08
BORJ	Germany	6.6664	53.5789	-0.71	+/-	0.42	-0.89
BORK	Germany	6.7474	53.5636	-0.59	+/-	0.29	-0.89
BPDL	Poland	23.1274	52.0353	1.13	+/-	1.53	-0.34
BRAE	UK	356.6044	57.0067	1.12	+/-	0.27	1.32
BRE1	UK	356.6183	51.9529	-0.25	+/-	0.28	-0.41
BRUS	Belgium	4.3592	50.7978	0.53	+/-	0.17	-0.08
BRUX	Belgium	4.3586	50.7981	0.49	+/-	0.48	-0.08
BUCK	UK	357.0385	57.6761	1.04	+/-	0.42	1.32
BUDP	Denmark	12.5000	55.7390	0.86	+/-	0.36	0.18
BUGN	France	1.9361	50.0981	0.32	+/-	0.29	-0.19
BUT1	UK	353.7391	58.5156	-0.49	+/-	0.53	0.56
BUXT	UK	358.0801	53.2292	-0.14	+/-	0.20	-0.06
BVOI	France	2.2386	50.3695	0.82	+/-	0.29	-0.19
CAB3		4.9293	51.9682	-1.38	+/-	0.20	-0.22
CABW	Netherlands	4.9262	51.9695	-0.05	+/-	0.21	-0.22
CADE	Germany	9.0621	53.7463	0.20	+/-	0.43	-0.71
CAM1	UK	354.6726	50.2184	-0.34	+/-	0.19	-0.65
CAML	UK	354.3981	55.4252	-1.36	+/-	1.35	1.49
CARF	UK	356.8932	51.5311	-0.01	+/-	0.19	-0.41
CARL	UK	357.0617	54.8954	0.66	+/-	0.20	0.63
CASB	Ireland	350.7127	53.8507	1.67	+/-	0.24	0.02
CAVN	Ireland	352.6352	53.9935	0.70	+/-	0.24	0.32
CHA3	Belgium	4.4471	50.4054	1.99	+/-	0.29	-0.08
CHIO	UK	358.5617	51.1490	-0.05	+/-	0.25	-0.37
CKSH	Ireland	351.9101	53.9438	1.53	+/-	0.32	0.23
CLAU	Germany	10.3462	51.7991	0.86	+/-	0.71	-0.14
CLAW	UK	358.6685	52.3588	0.22	+/-	0.29	-0.36
CLNM	Ireland	352.3046	52.3550	0.51	+/-	0.35	-0.23
CNG1	Russia	37.5160	55.8550	2.62	+/-	2.29	0.03
CNIV	Ukraine	31.3136	51.5189	1.49	+/-	0.66	0.07
COLC	UK	0.8972	51.8944	0.47	+/-	0.29	-0.36
CORK	UK	351.4670	51.8849	0.44	+/-	0.24	-0.63
COUD	France	2.3741	51.0229	-0.45	+/-	0.32	-0.35
DAGD	Latvia	27.5331	56.0977	1.32	+/-	1.00	0.27
DAL1	Germany	6.1820	50.0704	0.91	+/-	0.32	-0.02
DARE	UK	357.3595	53.3448	0.18	+/-	0.17	0.09
DAU1	Latvia	26.5184	55.8692	0.65	+/-	0.80	0.28
DAUN	Germany	6.8212	50.1999	0.44	+/-	0.39	-0.01
DELF	Netherlands	4.3876	51.9861	-0.29	+/-	0.21	-0.27
DENT	Belgium	3.3997	50.9337	-0.80	+/-	0.19	-0.13
DGLG	France	2.3448	50.9937	-0.31	+/-	0.21	-0.19
DIEP	Germany	8.3422	52.5881	-0.05	+/-	0.37	-0.40
DIES	Belgium	5.0490	50.9807	0.20	+/-	0.46	-0.04

DKST	Lithuania	26.3189	55.5205	0.65	+/-	1.00	0.51
DLF1	Netherlands	4.3875	51.9860	-0.43	+/-	0.55	-0.27
DLF5	Netherlands	4.3875	51.9860	-0.77	+/-	0.44	-0.27
DLFT	Netherlands	4.3876	51.9860	-0.80	+/-	0.42	-0.27
DNGL	Ireland	351.9123	54.6592	1.09	+/-	0.33	0.61
DOB1	Latvia	23.2834	56.6367	1.83	+/-	0.90	0.75
DOUL	France	2.3521	50.1621	-0.38	+/-	0.46	-0.19
DOUR	Belgium	4.5949	50.0949	0.19	+/-	0.18	-0.04
DRES	Germany	13.7297	51.0298	0.36	+/-	0.36	-0.15
DROI	UK	357.8454	52.2553	-0.67	+/-	0.46	-0.30
DROW	UK	357.8021	52.2518	-0.99	+/-	0.24	-0.30
DRUM	UK	356.2639	55.6272	1.28	+/-	0.23	1.46
DUDE	UK	357.1227	56.4639	0.82	+/-	1.54	1.41
DUNG	UK	0.9765	50.9266	-0.55	+/-	0.23	-0.24
DUNK	UK	356.7601	50.8605	-0.44	+/-	0.31	-0.47
DVTG	UK	1.3225	51.1145	0.01	+/-	0.30	-0.36
EASN	UK	0.1164	53.6490	0.03	+/-	0.23	-0.39
ECQU	France	2.4474	50.5607	-0.26	+/-	0.17	-0.19
EDIN	UK	356.7052	55.9248	1.14	+/-	0.19	1.16
EEKL	Belgium	3.5647	51.1899	-0.24	+/-	0.28	-0.27
EFBG	Germany	6.8819	50.5253	1.43	+/-	0.19	-0.01
EIJS	Belgium	5.6836	50.7582	0.58	+/-	0.19	-0.02
ELK1	Lithuania	24.6446	54.7767	2.15	+/-	1.89	0.21
ENIS	UK	352.3551	54.3954	0.00	+/-	0.26	0.61
EQHE	France	1.5676	50.6804	-0.29	+/-	0.17	-0.19
ERFU	Germany	11.0282	51.0052	0.88	+/-	0.26	-0.15
ESBC	Denmark	8.4568	55.4936	0.41	+/-	0.35	-1.66
ESBH	Denmark	8.4398	55.4603	-0.83	+/-	0.30	-1.66
ESKD	UK	356.7931	55.3124	1.39	+/-	0.32	1.16
ESMA	UK	356.7930	55.3163	0.99	+/-	0.50	1.16
ESSE	Germany	7.0333	51.4435	0.87	+/-	1.22	-0.15
EUSK	Germany	6.7635	50.6741	-1.33	+/-	0.31	-0.01
EXMO	UK	356.5899	50.6134	1.02	+/-	0.93	-0.47
FARN	UK	359.2273	51.2799	-1.15	+/-	0.24	-0.37
FAUG	UK	355.3115	57.1357	1.88	+/-	0.47	1.54
FFMJ	Germany	8.6650	50.0906	0.76	+/-	0.47	-0.02
FFOD	Germany	14.5412	52.3562	0.57	+/-	1.31	-0.04
FLB2	Germany	9.5036	54.7918	1.37	+/-	0.58	-0.86
FLDW	Germany	8.3076	53.7186	-0.48	+/-	0.49	-0.81
FOVA	Belgium	4.2164	50.3208	-0.78	+/-	0.46	-0.08
FOYL	UK	352.6634	54.9838	1.28	+/-	0.18	0.87
FROC	Norway	8.6603	63.8652	2.22	+/-	0.64	1.28
FYHA	Denmark	9.9863	54.9936	0.09	+/-	0.76	-0.86
GBGN	Belgium	3.8695	50.7686	0.37	+/-	0.29	-0.08
GELD	Netherlands	5.5551	51.4121	-0.43	+/-	0.27	-0.18
GELL	Germany	14.3218	53.4503	0.14	+/-	0.46	0.15
GER2	Germany	12.0789	50.8788	0.31	+/-	0.36	-0.08
GESR	Denmark	11.9229	54.5744	-0.04	+/-	0.44	-0.20
GHIS	Belgium	3.8831	50.4537	2.57	+/-	0.16	-0.08
GIGG	UK	357.6912	54.0759	0.43	+/-	0.23	0.35
GIRA	UK	355.1424	55.2434	1.13	+/-	0.33	1.58
GIZY	Poland	21.7678	54.0358	-0.24	+/-	1.07	0.43
GLAS	UK	355.7035	55.8540	1.00	+/-	0.20	1.46
GLSV	Ukraine	30.4967	50.3642	2.41	+/-	1.15	0.11
GLWY	Ireland	350.9393	53.2807	-0.06	+/-	0.24	0.02

GOET	Germany	9.9506	51.5002	-0.15	+/-	0.48	-0.14
GOR2	Germany	11.3496	53.0497	0.78	+/-	0.57	-0.40
GORS	UK	1.7319	52.5756	-0.70	+/-	0.23	-0.54
GOTH	Germany	10.7033	50.9474	-1.03	+/-	0.97	-0.06
GREI	Germany	13.3939	54.0751	0.73	+/-	0.44	0.11
GRO2	Germany	8.8593	50.8088	-0.09	+/-	0.27	-0.02
GUM2	Germany	7.5680	51.0291	-0.19	+/-	0.35	-0.14
GWWL	Poland	15.2052	52.7380	1.94	+/-	1.53	-0.04
HABY	Denmark	11.3553	55.9718	0.71	+/-	0.61	-0.66
HAM1	Germany	7.7184	51.6247	-2.00	+/-	0.64	-0.14
HAMB	Germany	9.9838	53.5513	-0.06	+/-	0.70	-0.57
HAME	Germany	9.4017	52.0663	-0.09	+/-	0.54	-0.37
HAN1	Germany	9.7305	52.3731	1.39	+/-	0.36	-0.33
HARD	UK	359.4713	50.9497	0.06	+/-	0.28	-0.35
HAS6	Sweden	13.7180	56.0922	1.04	+/-	0.83	0.89
HEI1	Iceland	345.4591	65.3808	2.58	+/-	0.25	2.39
HEL3	Germany	7.8765	54.1863	-0.04	+/-	0.50	-1.31
HELG	Germany	7.8931	54.1745	0.20	+/-	0.40	-1.31
HELS	UK	356.3506	58.1153	2.51	+/-	1.33	0.92
HERE	Belgium	4.8403	51.1863	0.52	+/-	0.51	-0.22
HERO	UK	0.3357	50.8675	-0.75	+/-	0.62	-0.30
HERS	UK	0.3363	50.8673	-0.35	+/-	0.21	-0.30
HERT	UK	0.3344	50.8675	0.34	+/-	0.23	-0.30
HERZ	Germany	13.2389	51.6948	-0.20	+/-	0.37	-0.15
HIRS	Denmark	9.9675	57.5911	2.32	+/-	0.25	0.32
HOBU	Germany	10.4763	53.0506	0.38	+/-	0.35	-0.57
HOE2	Germany	8.2934	54.7588	-0.13	+/-	0.57	-1.31
HOEG	Belgium	4.9004	50.7786	-0.19	+/-	0.34	-0.04
HOFJ	Germany	11.8759	50.3129	0.49	+/-	0.46	-0.08
HOL2	Germany	10.1568	54.3729	0.31	+/-	0.42	-0.86
HOLY	UK	355.3579	53.3177	-0.10	+/-	0.34	0.25
HONS	Norway	25.9649	70.9771	3.31	+/-	0.93	1.71
HOOB	UK	358.6203	53.4829	3.12	+/-	0.25	-0.23
HRM1	UK	358.7161	51.4537	-0.37	+/-	0.15	-0.37
HRM2	UK	358.7161	51.4537	-0.45	+/-	0.43	-0.37
HUET	Germany	6.1927	51.8430	0.22	+/-	0.26	-0.18
HUN2	UK	358.4861	51.4043	0.20	+/-	0.29	-0.38
HURN	UK	358.1639	50.7794	1.00	+/-	0.64	-0.40
IEPE	Belgium	2.8590	50.8490	-0.32	+/-	0.31	-0.13
IESG	UK	358.8077	52.9407	-0.35	+/-	0.42	-0.36
IJMU	Netherlands	4.5561	52.4620	-1.16	+/-	0.26	-0.53
INVE	UK	355.7807	57.4863	2.32	+/-	1.01	1.54
INVR	UK	355.7807	57.4863	0.76	+/-	0.44	1.54
IOMS	UK	355.3655	54.0867	0.51	+/-	0.22	0.95
IRBE	Latvia	21.8520	57.5544	2.66	+/-	1.29	0.47
JEK1	Latvia	25.8646	56.5049	1.47	+/-	1.23	0.66
JNSK	Lithuania	23.6176	56.2421	0.13	+/-	0.66	0.80
JOEN	Finland	30.0962	62.3912	3.74	+/-	0.38	4.53
JON6	Sweden	14.0597	57.7454	3.94	+/-	0.78	2.12
JOZ2	Poland	21.0324	52.0978	0.04	+/-	0.49	-0.31
JOZE	Poland	21.0315	52.0973	0.42	+/-	0.52	-0.31
KAD6	Sweden	13.5056	59.4441	5.01	+/-	0.77	6.32
KAIN	Belgium	3.3717	50.6286	-1.87	+/-	0.83	-0.13
KALD	Germany	6.1809	51.3204	1.56	+/-	0.25	-0.18
KAUN	Lithuania	23.9796	54.9061	-0.66	+/-	0.81	0.34

KEDN	Lithuania	23.9942	55.2576	0.22	+/-	0.69	0.78
KELM	Lithuania	22.9307	55.6284	0.70	+/-	0.56	0.78
KELO	UK	357.5599	55.5956	0.52	+/-	0.32	0.74
KEYW	UK	358.9219	52.8790	-0.19	+/-	0.28	-0.36
KHAR	Ukraine	36.2390	50.0051	1.17	+/-	0.87	0.18
KILN	UK	355.6793	56.4549	2.21	+/-	0.34	1.72
KIN1	UK	0.4015	52.7514	-0.39	+/-	0.19	-0.42
KINL	UK	354.9477	58.4588	1.45	+/-	0.53	0.83
KINT	UK	357.6713	57.2454	1.08	+/-	0.42	0.93
KIR0	Sweden	21.0602	67.8776	7.09	+/-	0.63	6.99
KIR8	Sweden	21.0602	67.8775	5.33	+/-	1.94	6.99
KIRK	UK	355.9526	54.8395	-0.92	+/-	0.34	0.84
KIRU	Sweden	20.9684	67.8574	6.74	+/-	0.57	6.99
KIRW	UK	357.0985	58.9534	0.44	+/-	0.55	0.84
KLOP	Germany	8.7299	50.2198	0.36	+/-	0.27	-0.02
KLPD	Lithuania	21.1189	55.7154	-0.10	+/-	3.03	0.66
KLRE	UK	353.3820	54.9649	0.97	+/-	0.33	0.87
KOSG	Netherlands	5.8096	52.1784	-0.86	+/-	0.32	-0.48
KRTN	Lithuania	21.2456	55.8881	0.69	+/-	0.63	0.66
KUL1	Latvia	21.9464	56.9796	2.65	+/-	1.14	0.66
KURE	Estonia	22.5101	58.2556	2.34	+/-	0.86	0.53
LAMA	Poland	20.6699	53.8924	-0.38	+/-	0.76	-0.04
LCAR	UK	354.5359	57.4203	0.77	+/-	0.35	1.54
LDB2	Germany	14.1209	52.2091	-0.07	+/-	0.46	-0.07
LEED	UK	358.3362	53.8002	-0.03	+/-	0.17	-0.06
LEEK	UK	358.0187	53.1278	0.28	+/-	0.22	-0.06
LEIJ	Germany	12.3741	51.3540	-0.04	+/-	0.33	-0.15
LEK6	Sweden	14.8771	60.7222	7.55	+/-	0.73	7.26
LERI	UK	358.8163	60.1383	0.25	+/-	0.75	-0.69
LERW	UK	358.8151	60.1391	-0.25	+/-	0.34	-0.69
LETO	France	1.6191	50.5139	0.11	+/-	0.23	-0.19
LHAW	Germany	8.1277	53.8632	-0.20	+/-	0.29	-0.81
LICF	UK	358.1863	52.7100	-0.00	+/-	0.26	-0.30
LIEP	Latvia	21.0169	56.5089	1.39	+/-	0.92	0.58
LIL2	France	3.1360	50.6135	-2.28	+/-	1.33	-0.13
LIMB	Latvia	24.7135	57.5106	1.23	+/-	1.09	0.57
LIN1	UK	359.4799	53.2503	0.07	+/-	0.26	-0.23
LIVE	UK	356.9818	53.4497	0.69	+/-	0.36	0.09
LMCU	France	3.0768	50.6428	-0.07	+/-	0.30	-0.13
LMRK	Ireland	351.4243	52.6740	-0.05	+/-	0.24	-0.33
LOCG	UK	354.5539	56.0135	-0.05	+/-	1.23	1.80
LODE	Latvia	25.6462	57.1305	1.18	+/-	0.91	0.56
LODZ	Poland	19.4595	51.7787	-1.25	+/-	0.76	-0.28
LOFT	UK	359.1366	54.5629	-1.73	+/-	0.30	0.03
LON1	UK	359.8801	51.4894	0.60	+/-	0.94	-0.37
LOV6	Sweden	17.8289	59.3379	6.05	+/-	3.10	4.42
LOVJ	Russia	34.6158	67.8910	2.46	+/-	1.03	1.99
LOWE	UK	1.7502	52.4732	-0.39	+/-	0.15	-0.54
LWTG	UK	358.8597	60.1541	0.73	+/-	0.44	-0.69
MAAS	Belgium	5.7507	51.1058	0.37	+/-	0.28	-0.18
MABO	Belgium	5.7393	50.0746	1.10	+/-	0.19	-0.02
MACY	UK	356.1482	52.5889	0.16	+/-	0.28	-0.24
MADO	Latvia	26.2213	56.8532	1.38	+/-	0.86	0.66
MAFA	Belgium	5.2975	50.2370	0.29	+/-	0.35	-0.04
MAGB	Germany	11.6303	52.1300	1.20	+/-	1.24	-0.21

MAID	UK	0.5129	51.2727	-1.32	+/-	0.70	-0.36
MALX	UK	354.1716	57.0061	1.37	+/-	0.17	1.32
MAME	Belgium	5.6964	50.9633	3.47	+/-	1.69	-0.02
MANR	UK	357.7650	53.5116	0.17	+/-	0.32	-0.06
MAR5	Belgium	4.5106	50.0900	-0.05	+/-	0.28	-0.04
MAR6	Sweden	17.2585	60.5951	7.80	+/-	0.74	6.68
MAR8	UK	1.3829	51.3917	-0.41	+/-	0.25	-0.36
MAZK	Lithuania	22.3086	56.3145	0.19	+/-	0.61	0.66
MCHA	UK	357.0004	51.9977	-0.43	+/-	0.33	-0.41
MDVJ	Russia	37.2145	56.0215	2.39	+/-	1.65	-0.25
MDVO	Russia	37.2236	56.0275	1.51	+/-	1.09	-0.25
MENE	Belgium	3.1007	50.7809	0.81	+/-	0.89	-0.13
MEPP	Germany	7.3155	52.7159	0.52	+/-	0.51	-0.44
METS	Finland	24.3953	60.2175	4.01	+/-	0.55	2.98
MIL5	UK	359.2282	52.0242	-1.77	+/-	0.35	-0.36
MOBJ	Russia	36.5697	55.1149	-2.46	+/-	2.08	-0.05
MOBK	Russia	36.5697	55.1149	2.12	+/-	2.89	-0.05
MOBN	Russia	36.5695	55.1149	0.62	+/-	0.57	-0.05
MOH2	Belgium	5.1920	50.5403	1.62	+/-	0.24	-0.04
MOL0	Belgium	5.1171	51.1826	-0.04	+/-	0.38	-0.22
MON2	Germany	7.8307	50.4316	0.90	+/-	0.59	-0.01
MOR7	UK	358.3145	55.2129	-0.10	+/-	0.32	0.74
MORP	UK	358.3145	55.2128	1.34	+/-	0.35	0.74
MORV	France	2.8726	50.0303	0.77	+/-	1.00	-0.13
MOX2	Germany	11.6162	50.6422	0.29	+/-	0.39	-0.08
MRJM	Lithuania	23.3693	54.5729	1.30	+/-	1.89	0.40
MRKT	UK	353.4965	54.2371	0.82	+/-	0.32	0.87
MSLC	Latvia	25.0547	57.8568	1.24	+/-	0.89	0.57
MSTR	Netherlands	5.7026	50.8448	-0.16	+/-	0.37	-0.02
NAMR	Belgium	4.8606	50.4695	0.13	+/-	0.35	-0.04
NCAS	UK	358.3834	54.9791	1.06	+/-	0.55	0.35
NEWL	UK	354.4572	50.1030	-0.70	+/-	0.28	-0.72
NEWR	UK	0.4153	52.2668	-0.12	+/-	0.25	-0.42
NIKL	Belgium	4.1509	51.1410	0.53	+/-	0.31	-0.27
NIVL	Belgium	4.3047	50.5853	0.36	+/-	0.31	-0.08
NOR7	Sweden	16.2464	58.5901	4.64	+/-	2.58	3.82
NOTT	UK	358.8025	52.9622	-1.69	+/-	1.11	-0.36
NPLD	UK	359.6604	51.4210	-0.04	+/-	0.51	-0.37
NSLG	UK	358.5674	55.0089	0.95	+/-	0.39	0.27
NSTG	UK	358.5601	55.0074	0.98	+/-	0.15	0.27
NTZ1	Germany	13.0726	53.3297	0.09	+/-	0.33	-0.02
NWRS	Ireland	353.0697	52.3895	0.91	+/-	0.27	-0.21
NYAL	Norway	11.8651	78.9296	7.42	+/-	0.95	0.68
OBAN	UK	354.5592	56.4513	-0.30	+/-	0.37	1.80
OJAR	Latvia	24.0761	56.9255	1.71	+/-	1.27	0.80
OLLN	Belgium	4.6278	50.6774	-1.95	+/-	1.33	-0.04
OLPE	Germany	7.8629	51.0390	0.10	+/-	0.51	-0.14
OMGH	UK	352.7441	54.6162	1.00	+/-	0.27	0.87
ONHA	Belgium	4.8450	50.2453	-0.12	+/-	0.27	-0.04
ONS1	Sweden	11.9245	57.3953	1.86	+/-	0.61	1.47
ONSA	Sweden	11.9255	57.3953	2.91	+/-	0.25	1.47
OOST	Belgium	2.9223	51.2254	-0.13	+/-	0.17	-0.32
OSHQ	UK	358.5495	50.9313	-0.45	+/-	0.37	-0.35
OSK6	Sweden	15.9969	57.0657	2.84	+/-	1.11	1.98
OSLS	Norway	10.3678	59.7366	5.13	+/-	0.33	4.61

OSNA	Germany	8.0476	52.2548	-0.19	+/-	0.38	-0.40
OST6	Sweden	14.8580	63.4428	9.38	+/-	2.80	7.00
OSTI	Belgium	3.8020	50.6785	-0.72	+/-	0.27	-0.08
OVE6	Sweden	22.7734	66.3178	7.61	+/-	1.34	9.17
OXFR	UK	358.7115	51.8240	0.03	+/-	0.29	-0.37
PBIL	UK	357.5425	50.5218	-0.44	+/-	0.52	-0.40
PERS	UK	357.9585	52.1483	-0.30	+/-	0.12	-0.30
PET3	UK	359.7368	52.5838	0.23	+/-	0.25	-0.36
PLSM	Latvia	26.18300	57.3900	0.87	+/-	1.17	0.56
PMTG	UK	358.8888	50.8023	-1.47	+/-	0.47	-0.35
PMTH	UK	355.8738	50.4165	-0.06	+/-	0.29	-0.56
POOL	UK	358.0894	50.7759	0.35	+/-	0.24	-0.40
PORZ	Germany	7.0693	50.8704	1.90	+/-	0.25	-0.00
POTS	Germany	13.0661	52.3793	0.57	+/-	0.31	-0.13
PRAE	UK	356.2797	50.2029	-0.09	+/-	0.46	-0.56
PREI	Latvia	26.7249	56.2900	0.68	+/-	1.20	0.48
PRIS	France	3.7703	50.0791	0.21	+/-	0.39	-0.08
PTBB	Germany	10.4597	52.2962	0.32	+/-	0.19	-0.33
PULK	Russia	30.3278	59.7718	0.44	+/-	0.40	1.28
RADE	Germany	7.3818	51.1989	0.90	+/-	0.33	-0.15
RAL1	UK	358.6851	51.5715	-0.87	+/-	0.25	-0.37
REDU	Belgium	5.1449	50.0015	0.72	+/-	0.20	-0.04
REDZ	Poland	17.1175	54.4724	0.57	+/-	0.71	0.54
REZ1	Latvia	27.3433	56.5278	0.77	+/-	1.09	0.48
RICM	UK	358.2636	54.4129	0.03	+/-	0.31	0.35
RIE1	Lithuania	21.9287	55.7297	0.47	+/-	0.66	0.73
RIGA	Latvia	24.0588	56.9486	1.38	+/-	0.33	0.80
RKSK	Lithuania	25.5872	55.9579	-0.29	+/-	0.69	0.51
ROET	Belgium	6.2016	50.6383	0.92	+/-	0.36	-0.02
RTBG	Germany	14.9657	51.3549	-0.23	+/-	0.66	-0.16
SAKI	Lithuania	23.0489	54.9520	1.31	+/-	1.57	0.40
SANN	Germany	9.5821	50.3198	0.53	+/-	0.44	-0.04
SANO	UK	358.787	50.6503	-0.24	+/-	0.31	-0.35
SASS	Germany	13.6433	54.5136	0.36	+/-	1.34	0.34
SAUL	Lithuania	23.3144	55.9565	0.36	+/-	0.76	0.78
SCAO	UK	359.6200	54.2525	0.57	+/-	0.31	0.03
SCHE	Germany	7.9052	50.3465	1.76	+/-	0.30	-0.01
SCHI	Netherlands	6.1623	53.4773	-1.22	+/-	0.28	-0.94
SG40	Finland	24.9612	60.2038	4.32	+/-	1.08	2.75
SHEE	UK	0.7434	51.4457	3.10	+/-	0.26	-0.36
SHOB	UK	357.1142	52.2429	-0.13	+/-	0.21	-0.25
SHOE	UK	0.8270	51.5548	0.26	+/-	0.26	-0.36
SHRE	UK	357.2836	52.7179	0.14	+/-	0.22	-0.25
SIGU	Latvia	24.8927	57.1488	2.07	+/-	0.90	0.57
SILT	Lithuania	21.4666	55.3419	2.08	+/-	1.58	0.66
SKE0	Sweden	21.0483	64.8792	11.01	+/-	0.71	9.12
SKE8	Sweden	21.0482	64.8792	9.43	+/-	3.32	9.12
SKEE	UK	0.3468	53.1419	-1.32	+/-	0.25	-0.39
SLCN	Lithuania	25.3848	54.3150	0.99	+/-	1.55	0.21
SLD1	Latvia	22.4988	56.6598	1.75	+/-	1.45	0.66
SLGO	Ireland	351.5368	54.2742	0.58	+/-	0.23	0.61
SMID	Denmark	9.5593	55.6406	0.29	+/-	0.27	-1.08
SNEO	UK	359.8885	52.1860	-0.14	+/-	0.25	-0.36
SODA	Finland	26.3890	67.4209	7.63	+/-	0.79	7.90
SOKL	Poland	23.4957	53.4085	0.35	+/-	0.79	-0.13

SOTN	UK	358.5296	50.9377	-1.33	+/-	0.32	-0.35
SPT0	Sweden	12.8913	57.7150	4.30	+/-	0.23	1.89
STAS	Norway	5.5986	59.0177	1.37	+/-	0.43	1.25
STAV	Netherlands	5.3833	52.8966	-0.62	+/-	0.22	-0.53
STE1	Germany	8.7282	52.4992	-0.62	+/-	0.41	-0.37
STEE	UK	359.8215	51.9015	-0.33	+/-	0.25	-0.37
STOR	UK	353.6246	58.2031	-0.13	+/-	0.55	0.56
STR3	UK	0.0095	51.5446	-0.57	+/-	0.32	-0.37
STRN	UK	355.2876	54.8666	1.02	+/-	0.22	0.95
STRO	UK	357.6986	51.7396	-0.76	+/-	0.62	-0.38
STRU	UK	357.6992	51.7392	-0.73	+/-	0.41	-0.38
SULD	Denmark	9.7422	56.8418	0.77	+/-	0.34	-0.84
SUN6	Sweden	17.6598	62.2325	9.32	+/-	1.02	8.43
SUNB	UK	359.5825	51.3999	-2.57	+/-	0.56	-0.37
SUR4	Estonia	24.3803	59.4636	1.67	+/-	3.95	1.24
SURE	Ukraine	36.2302	50.0153	0.06	+/-	1.42	0.18
SUUR	Estonia	24.3803	59.4636	3.38	+/-	0.59	1.24
SVE6	Sweden	14.7001	62.0174	9.01	+/-	1.03	7.60
SVNL	Lithuania	25.9959	55.1628	1.91	+/-	1.48	0.51
SVTL	Russia	29.7809	60.5329	2.53	+/-	0.50	2.29
SWAN	UK	359.4950	53.7365	0.02	+/-	0.25	-0.23
SWAS	UK	356.0182	51.5656	-0.04	+/-	0.35	-0.46
SWKI	Poland	22.9282	54.0986	1.74	+/-	1.98	0.40
SWRD	Ireland	353.7810	53.4591	-1.37	+/-	0.68	0.31
SWTG	UK	353.6111	58.2076	0.10	+/-	0.41	0.56
TALS	Latvia	22.5869	57.2465	2.37	+/-	1.21	0.50
TAUR	Lithuania	22.2859	55.2523	-0.13	+/-	0.60	0.73
TAUT	UK	356.9213	51.0234	-0.08	+/-	0.32	-0.41
TBSB	UK	0.0373	51.4948	-0.72	+/-	0.31	-0.37
TEDD	UK	359.6565	51.4253	-0.11	+/-	0.30	-0.37
TEJH	Denmark	14.8393	55.2484	-0.03	+/-	0.64	0.63
TELL	Belgium	5.2096	50.0516	-2.30	+/-	0.94	-0.04
TELS	Lithuania	22.2410	55.9852	-0.50	+/-	0.62	0.73
TERS	Netherlands	5.2194	53.3627	-0.74	+/-	0.22	-0.95
TGBF	Germany	6.7479	53.5574	-0.30	+/-	0.33	-0.89
TGBH	Germany	8.5682	53.5450	-0.15	+/-	0.33	-0.71
TGBU	Germany	8.8592	54.1217	-0.45	+/-	0.35	-1.12
TGCU	Germany	8.7175	53.8677	0.32	+/-	0.36	-0.71
TGD2	Germany	6.9262	53.4336	-0.18	+/-	0.42	-0.89
TGDA	Germany	8.6871	54.7305	0.14	+/-	0.49	-1.12
TGDE	Norway	7.5548	58.0064	1.46	+/-	0.21	1.12
TGEM	Germany	7.1863	53.3368	-0.04	+/-	0.31	-0.89
TGF1	Denmark	6.5878	54.0148	0.39	+/-	0.25	-1.42
TGKN	Germany	7.0307	53.3272	-1.21	+/-	0.35	-0.89
TGME	Germany	8.0926	53.7717	-1.41	+/-	0.62	-0.81
TGP1	Germany	7.2598	53.3214	-0.47	+/-	0.60	-0.89
TGPA	Germany	7.3656	53.1082	-0.15	+/-	0.53	-0.89
TGRN	Belgium	5.4779	50.7705	0.59	+/-	0.33	-0.04
TGTE	Germany	7.3961	53.2927	0.01	+/-	0.65	-0.89
TGWD	Germany	8.3839	54.6318	-0.38	+/-	0.58	-1.31
TGWE	Germany	7.3720	53.1609	0.07	+/-	0.39	-0.89
TGWH	Germany	8.1702	53.5383	0.36	+/-	0.32	-0.81
THUS	UK	356.2750	58.5816	0.44	+/-	0.55	0.92
TILM	Belgium	5.5666	50.5826	0.93	+/-	0.23	-0.02
TIR1	UK	353.1194	56.5000	-0.91	+/-	0.71	1.21

TITZ	Germany	6.4316	51.0353	0.65	+/-	0.35	-0.18
TLLG	Ireland	353.6365	53.2915	-0.03	+/-	0.34	0.31
TOIL	Estonia	27.5366	59.4220	2.05	+/-	0.65	1.37
TOR2	Estonia	26.4616	58.2647	1.14	+/-	0.91	0.60
TRDS	Norway	10.3192	63.3714	4.42	+/-	0.39	2.38
TRO1	Norway	18.9396	69.6627	3.30	+/-	0.48	1.06
TROM	Norway	18.9383	69.6627	3.08	+/-	0.32	1.06
TUR1	Belgium	4.9491	51.3129	0.07	+/-	0.33	-0.22
UIST	UK	352.6251	57.3534	-0.33	+/-	0.36	0.88
UME6	Sweden	19.5095	63.5781	8.65	+/-	1.24	8.70
UMME	Germany	8.4588	51.9781	0.26	+/-	0.48	-0.14
UTEN	Lithuania	25.6328	55.5061	-1.45	+/-	1.24	0.51
VAAS	Finland	21.7706	62.9612	9.40	+/-	0.59	7.31
VAE6	Sweden	12.0351	58.6932	5.29	+/-	0.89	3.78
VAL8	Latvia	25.4059	57.5360	1.46	+/-	2.80	0.57
VAR1	Lithuania	24.5954	54.2159	-0.72	+/-	0.69	0.21
VARD	Norway	31.1040	70.3750	3.01	+/-	0.42	0.66
VARS	Norway	31.0312	70.3364	3.15	+/-	0.28	0.66
VEIS	Lithuania	23.7044	54.0939	-0.11	+/-	0.66	0.34
VERD	Germany	9.2359	52.9135	0.39	+/-	0.47	-0.37
VG TU	Lithuania	25.3377	54.7215	-0.39	+/-	1.10	0.21
VIKC	Norway	11.2422	64.8637	3.84	+/-	0.56	2.09
VIL0	Sweden	16.5599	64.6978	8.78	+/-	0.59	7.50
VIL6	Sweden	16.5599	64.6978	8.57	+/-	2.89	7.50
VIS0	Sweden	18.3673	57.6539	3.22	+/-	0.48	1.34
VIS6	Sweden	18.3674	57.6539	3.23	+/-	1.36	1.34
VIT2	Belgium	6.0853	50.3166	2.51	+/-	0.93	-0.02
VLIE	Netherlands	5.0919	53.2962	-0.55	+/-	0.38	-0.95
VLIS	Netherlands	3.5973	51.4429	-0.46	+/-	0.26	-0.27
VLNS	Lithuania	25.2987	54.6531	-0.25	+/-	0.38	0.21
VOER	Belgium	5.7103	50.7575	0.71	+/-	0.29	-0.02
VRE2	Germany	6.7736	52.0538	-0.62	+/-	0.35	-0.44
WANN	France	3.2660	50.5698	-0.17	+/-	0.27	-0.13
WARE	Belgium	5.2453	50.6899	0.65	+/-	0.28	-0.04
WARI	UK	357.8183	51.2048	0.56	+/-	0.42	-0.38
WARN	Germany	12.1014	54.1698	0.28	+/-	0.42	-0.20
WATN	UK	358.7499	53.0058	0.78	+/-	0.56	-0.23
WATT	UK	0.9581	52.1239	-0.18	+/-	0.25	-0.48
WEAR	UK	357.7696	54.7491	0.52	+/-	0.28	0.35
WEIM	UK	0.0076	51.1010	0.93	+/-	0.73	-0.37
WEL2	UK	359.3754	52.3075	-0.44	+/-	0.28	-0.36
WERB	Belgium	5.6769	50.3822	0.70	+/-	0.29	-0.02
WEYB	UK	1.1303	52.9449	-0.56	+/-	0.19	-0.48
WLAD	Poland	18.4188	54.7968	0.78	+/-	0.86	0.51
WREN	Germany	12.6807	53.5183	0.49	+/-	0.56	-0.02
WSRA	Netherlands	6.6045	52.9146	-0.34	+/-	0.28	-0.44
WSRT	Netherlands	6.6045	52.9146	-0.07	+/-	0.56	-0.44
YEAS	UK	358.8999	54.1623	0.62	+/-	0.14	0.03
ZEEB	Belgium	3.2082	51.3359	-0.22	+/-	0.34	-0.32
ZWE2	Russia	36.7584	55.6993	0.51	+/-	0.70	-0.05
ZWEN	Russia	36.7586	55.6993	1.58	+/-	0.92	-0.05