



C300/410  
 Western Tunnels & Caverns Project  
**Close Out Report**

ATS's and associated prisms at Bond Street Station

CRL Document No. **C300-BFK-C4-RGN-CRT00\_ST005-51208**

Contract MDL reference: C14.020

**1. Contractor Document Submittal History**

Revision	Date	Prepared by	Checked by	Approved by	Reason for Issue
2.0	01/12/2015	[REDACTED]	[REDACTED]	[REDACTED]	ACCEPTANCE
		[REDACTED]	[REDACTED]	[REDACTED]	

**2a. Stakeholder Review Required? YES  NO**

Stakeholder submission required: LU  NR  DLR  RfL  LO  Other: \_\_\_\_\_ Purpose of submission: For no objection  For information

This document has been reviewed by the following individual for coordination, compliance, integration and acceptance and is acceptable for transmission to the above stakeholder for the above stated purpose.

Sign: \_\_\_\_\_ Name: \_\_\_\_\_ Role: \_\_\_\_\_ Date: \_\_\_\_\_  
 Sign: \_\_\_\_\_ Name: \_\_\_\_\_ Role: \_\_\_\_\_ Date: \_\_\_\_\_

**2b. Review by Stakeholder (if required):**

Stakeholder Organisation	Job Title	Name	Signature	Date	Acceptance
					<input type="checkbox"/>
					<input type="checkbox"/>

**3. Acceptance by Crossrail:**

	<b>Crossrail Review and Acceptance Decal</b> This decal is to be used for submitted documents requiring acceptance by Crossrail.		
<input checked="" type="checkbox"/>	Code 1.	Accepted. Work May Proceed	
<input type="checkbox"/>	Code 2.	Not Accepted. Revise and resubmit. Work may proceed subject to incorporation of changes indicated	
<input type="checkbox"/>	Code 3.	Not Accepted. Revise and resubmit. Work may not proceed	
<input type="checkbox"/>	Code 4.	Received for information only. Receipt is confirmed	
Reviewed/Accepted by: (signature)	[REDACTED]	Print Name: [REDACTED]	Date: 17/12/15
Acceptance by:	The designer/supplier from full compliance with their contractual obligations and does not constitute Crossrail approval of design, details, calculations, analyses, test methods or materials developed or selected by the designer/supplier.		



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Learning Legacy Document

## 1. Purpose of this Document

Close-Out Reports are required by the Works Information within the Instrumentation and Monitoring Specification KX10 Clause KX10.2114 prior to de-commissioning of any instrumentation.

This document summarises the data from the Automated Total Stations System (ATS's) and associated prisms in the BOS area and relates it to the construction activity. The analysis is mainly based on the comparison between initial and final readings.

The format of the document has been agreed during dedicated meetings between CRL, C122 and BFK.

## 2. Supporting Documents

This section provides references to relevant installation reports and drawings:

- Installation Report for Geodetic Prisms, BREs and Barcodes in BOS Area  
C300-BFK-C4-RGN-CRT00\_ST005-50572 Rev 5.0
- Installation Report ATS Network BOS  
C300-BFK-C4-RGN-CRT00\_ST005-50544 Rev 6.0
- Adjustment of PLPs, BREs and Prisms in the BOS area  
C300-BFK-C4-RGN-CRT00\_ST005-50758 Rev 4.0
- Drawing - Instrumentation and Monitoring – Bond Street Station  
C122-OVE-C2-DDA-CR001\_Z-31504 C01

## 3. Construction Activity

Table 3.1 shows the tunnel construction works undertaken within the footprint of the Automated Total Stations System (ATSs) and associated prisms installed at Bond Street Station. Tunnel excavation commenced with the soft eye for TCO at the end of October 2012 and was completed with the excavation of CP3 in June 2015

**Table 3.1. Construction Periods for tunnelling works in BOS area.**

TUNNEL	ABB.	START DATE	STAGE	END DATE
Running Tunnels				
Eastbound TBM passage	EB TBM	25/04/2013	Complete	01/07/2013
Westbound TBM passage	WB TBM	18/03/2013	Complete	02/05/2013
BOS - ETH				
Access Passage 3A	AP3A	07/12/2012	Final chainage 24.51m	23/03/2013
Access Passage 3B	AP3B	18/05/2013	Soft Eye completed	28/05/2013
Cross Passage 1	CP1	08/09/2014	Breakthrough at Temporary Headwall completed. Phase 1 and phase 2 concluded.	27/05/2015
Cross passage 2	CP2	15/09/2014	Breakthrough at Temporary Headwall completed. Phase 1 and phase 2 concluded.	03/06/2015



TUNNEL	ABB.	START DATE	STAGE	END DATE
Cross passage 3	CP3	10/09/2014	Breakthrough at Temporary Headwall completed. Phase 1 and phase 2 concluded.	13/06/2015
Cross passage 4	CP4	13/09/2014	Breakthrough at Temporary Headwall completed. Phase 1 and phase 2 concluded.	11/06/2015
Cross Passage 5	CP5	21/04/2013	Excavated Adv 1-9, ch. 4.62 to 11.49m out of PTE. Excavation concluded.	25/06/2014
Cross Passage 7	CP7 Phase 1	03/08/2013	Excavated up to Adv 12 ch. 14.00m (Temporary Headwall) Phase 1 concluded.	08/08/2013
	CP7 Phase 2	06/07/2014	Excavated Adv 1-9 ch. 4.62 – 11.09 out of PTE Phase 2 concluded. Final chainage 11.09m	07/07/2014
Cross Passage 8	CP8	28/07/2013	Phase 2 concluded. Final chainage 11.62m	01/02/2014
Cross Passage 9	CP9 Phase 1	09/08/2013	Excavated up to Adv 14 ch. 14.50m (Temporary Headwall) Phase 1 concluded.	13/08/2014
	CP9 Phase 2	08/07/2014	Excavated Adv 1-9 ch. 4.96 – 11.46 out of PTE Phase 2 concluded. Final chainage 11.46m	10/07/2014
Cross Passage 10	CP10	31/07/2013	Phase 2 concluded. Final chainage 11.63m	04/02/2014
Lower Concourse 3	CH3	13/05/2013	Final chainage 51.42m	15/07/2013
Launch Chamber Eastbound 1&2	LCE1&2	28/01/2013	Final chainage 35.90m	09/05/2013
Platform Tunnel Eastbound	PTE	02/05/2014	Final chainage 219.66m	24/08/2014
Platform Tunnel Westbound	PTW	10/12/2013	Excavated up to ch. 269.12 (Permanent headwall)	19/04/2014
	PTW East	25/06/2014	Back excavation from AP3A. From chainage 50.12 up to final chainage 81.29m	15/08/2014
Temporary SCL Headwall	SE2	26/04/2013	Soft eye completed Exploration pilot completed at adv 7 ch. 6.00m	07/05/2013
		08/06/2013		13/06/2013
Temporary Crossover	TCO	01/11/2012	Final chainage 18.05m	25/01/2013
Ventilation Duct 3	VD3	19/08/2014	Final chainage 24.75m	28/08/2014
Ventilation Duct 4	VD4	28/07/2014	Final chainage 18.24m	04/08/2014
<b>BOS - WTH</b>				
LU Access Passage 1	AP1	26/11/2014	Final chainage 71.18	Temporary headwall 26/02/2015
Access Passage 2A	AP2A	01/03/2014	Final chainage 14.60m	09/04/2014
Escalator Shaft 1	ES1	04/02/2015	Final chainage 10.06	19/02/2015
Lower Concourse 2	CH2	16/03/2015	Final chainage 47.91m	14/05/2015
Ventilation Duct 1A	VD1A	17/02/2014	Final chainage 7.03m	01/04/2014
Ventilation Duct 1B	VD1B	26/04/2014	Final chainage 9.37m	05/05/2014
Ventilation Duct 1C	VD1C	13/03/2014	Final chainage 11.45m	21/05/2014



#### 4. Location Plan

Figure 4.1. Location plan of instruments split into areas.

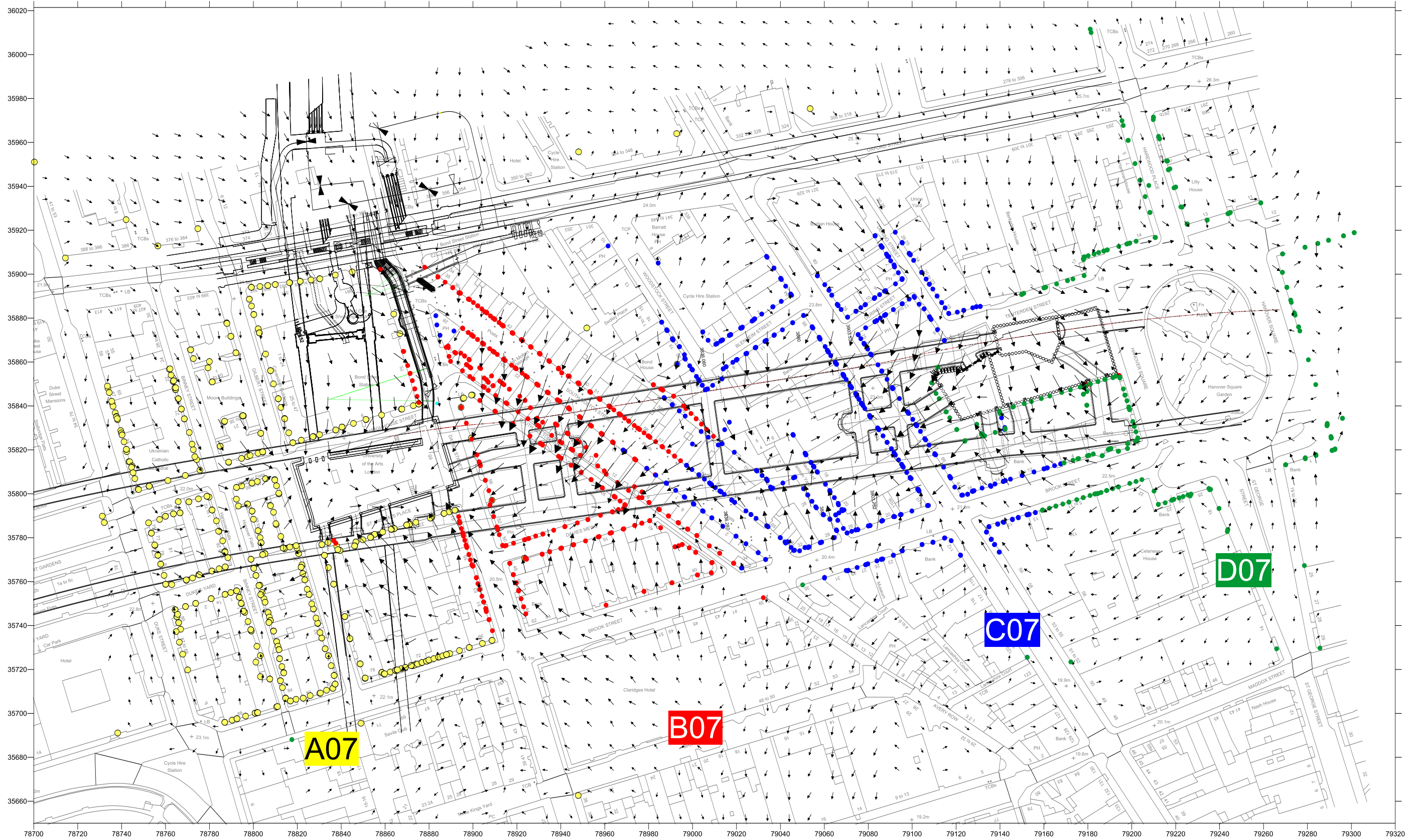


Figure 4.1 shows location of groups of instruments according to prefix on BFK ID (A to D). The plot also shows vectors of horizontal displacement. These are an approximate indication of the distribution of horizontal movement over the whole of the Bond Street Station zone of influence. The prisms are located at varying elevations and the magnitude of horizontal movements will vary with elevation due to any rotation associated with settlement either associated with rigid body tilting or with bending. It is also noted that the “final” readings associated with each prism are plotted which are not necessarily all contemporaneous. However, the plot has been used to identify that significant horizontal movements are shown on South Molton Street and South Molton Lane. Data from the lower level prisms on the east side of South Molton Lane are presented in the plots included in Section 6.

## 5. Comparison between Initial and Final Readings

Table 5.1 includes all prisms utilised to produce the vector plot showed in Figure 4.1. Based on an assessment of the validity of the horizontal displacement vectors the displacement values have been modified or particular points have been deemed unreliable. **RED** values in Table 5.1 have been manually modified - many of these are reference prisms which have been set to zero. Table 5.2 shows instruments deemed to be unreliable.

**Table 5.1. Difference between initial and final readings from ATSs at BOS**

BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
A07RP20913	C701-RP20913-CR084	78891.86	35792.54	125.1633	-4.6	5.4	-36.6	30/10/2012	02/01/2014
A07RP20916	C701-RP20916-CR084	78889.17	35791.77	129.7236	-5.1	7.4	-36.1	30/10/2012	02/01/2014
A07RP20917	C701-RP20917-CR084	78891.76	35792.52	132.6781	-5.7	9.4	-36	30/10/2012	02/01/2014
A07RP20918	C701-RP20918-CR084	78886.85	35791.09	132.7245	-5.1	9.5	-36.1	30/10/2012	02/01/2014
A07RP00374	C300-RP700951	78792.04	35864.23	133.9422	0.6	-3.9	2	30/10/2012	02/01/2014
A07RP00375	C300-RP700952	78792.05	35864.17	125.9293	-0.3	-4	2.1	30/10/2012	02/01/2014
A07RP00376	C300-RP700953	78789.77	35871.67	133.9139	0.5	-3.5	2.5	30/10/2012	02/01/2014
A07RP00377	C300-RP700954	78789.74	35871.7	126.2661	0	-3.6	2.3	30/10/2012	02/01/2014
A07RP00378	C300-RP700955	78787.87	35877.84	132.2099	0.4	-3.4	2.7	30/10/2012	02/01/2014
A07RP00379	C300-RP700956	78787.94	35877.56	126.0184	-0.2	-3.5	3	30/10/2012	02/01/2014
A07RP00382	C300-RP700957	78844.99	35901.04	130.3867	2.5	-9.6	4.3	30/10/2012	02/01/2014
A07RP00383	C300-RP700958	78837.32	35899.6	130.3874	2.4	-8.6	4.3	30/10/2012	02/01/2014
A07RP00391	C300-RP700959	78799.1	35894.02	135.7355	0.5	-5	4.2	30/10/2012	02/01/2014
A07RP00392	C300-RP700960	78799.08	35893.99	126.1297	0.3	-4.9	3.9	30/10/2012	02/01/2014
A07RP00393	C300-RP700961	78802.99	35894.38	131.0603	0.6	-5.2	3.9	30/10/2012	02/01/2014
A07RP00394	C300-RP700962	78806.54	35894.85	135.7129	0.7	-5.2	4	30/10/2012	02/01/2014
A07RP00395	C300-RP700963	78806.55	35894.83	126.0981	0.4	-5.1	4.2	30/10/2012	02/01/2014
A07RP00396	C300-RP700964	78809.99	35895.3	135.7138	0.8	-5.4	4	30/10/2012	02/01/2014
A07RP00397	C300-RP700965	78809.99	35895.28	126.0966	0.5	-5.2	4.3	30/10/2012	02/01/2014
A07RP00398	C300-RP700966	78816.61	35896.15	135.7078	0.6	-5.7	4.3	30/10/2012	02/01/2014
A07RP00399	C300-RP700967	78816.44	35896.12	126.0824	0.3	-5.6	4.5	30/10/2012	02/01/2014
A07RP00400	C300-RP700968	78821.33	35896.75	135.7164	0.8	-5.9	4.5	30/10/2012	02/01/2014
A07RP00401	C300-RP700969	78821.31	35896.74	126.0922	0.6	-5.9	4.7	30/10/2012	02/01/2014
A07RP00402	C300-RP700970	78826.23	35897.4	135.6977	0.9	-6.2	5.1	30/10/2012	02/01/2014
A07RP00404	C300-RP700972	78830.27	35897.91	126.0275	0.8	-6.4	4.2	30/10/2012	02/01/2014
A07RP00409	C300-RP700976	78774.71	35920.74	138.7827	3.9	0.4	4.8	30/10/2012	02/01/2014
A07RP00449	C300-RP701147	78773.6	35858.62	126.0669	1.3	-2.1	1.8	30/10/2012	02/01/2014
A07RP22210	C701-RP22210-CR084	78899.68	35844.96	127.5764	0.1	-7.5	-22	30/10/2012	02/09/2015
A07RP25810	C701-RP25810-CR084	78992.98	35858.98	139.9013	7.2	-18.2	-27.4	30/10/2012	02/09/2015
A07RP00380	C300-RP700566	78866.71	35872.9	130.2956	11.2	-3.4	-8.5	30/10/2012	02/09/2015
A07RP00381	C300-RP700567	78863.93	35881.86	130.3616	11.9	-2.5	-8.5	30/10/2012	02/09/2015
A07RP00408	C300-RP700975	78756.5	35912.86	136.196	2.4	-1	3.5	30/10/2012	02/09/2015
A07RP31810	C701-RP31810-CR084	78848.99	35695.51	138.9223	0	0	0	30/10/2012	27/01/2014
A07RP29510	C701-RP29510-CR084	78951.84	35875.53	143.1472	0	0	0	30/10/2012	02/09/2015
A07RP29310	C701-RP29310-CR084	79053.54	35975.39	156.74	0	0	0	31/10/2012	02/09/2015
A07RP31010	C701-RP31010-CR084	78765.78	35796.43	123.7615	0	0	0	30/10/2012	03/10/2013
A07RP22116	C701-RP22116-CR084	78908.66	35797.05	132.3373	-9.2	-0.6	-55.5	30/10/2012	20/07/2015
A07RP22221	C701-RP22221-CR084	78899.21	35825.36	132.0547	-4.3	-1.4	-54.3	30/10/2012	20/07/2015
A07RP22219	C701-RP22219-CR084	78894.57	35839.35	132.0826	-5.2	-0.6	-34.7	30/10/2012	20/07/2015
A07RP20515	C701-RP20515-CR084	78813.59	35775.29	133.7661	1.5	13.1	-19.5	30/10/2012	20/08/2015
A07RP20516	C701-RP20516-CR084	78810.25	35786.4	133.7719	3.8	9.7	-17.6	30/10/2012	20/08/2015
A07RP20517	C701-RP20517-CR084	78807.8	35794.56	133.7801	5.5	9.3	-15.8	30/10/2012	20/08/2015





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
A07RP20610	C701-RP20610-CR084	78811.66	35799.93	126.5977	6.1	7.1	-16.5	30/10/2012	20/07/2015
A07RP20612	C701-RP20612-CR084	78810.54	35803.67	129.0208	6.5	7	-17.3	30/10/2012	20/07/2015
A07RP20614	C701-RP20614-CR084	78809.75	35806.3	132.2355	0.4	2.2	-17.1	30/10/2012	20/07/2015
A07RP20622	C701-RP20622-CR084	78792.32	35802.89	133.8442	7	4.9	-16.7	30/10/2012	20/07/2015
A07RP20617	C701-RP20617-CR084	78792.33	35802.89	127.3812	6		-13.9	30/10/2012	20/08/2015
A07RP20213	C701-RP20213-CR084	78875.23	35840.84	126.2154	-1.1	-13.6	-11.1	30/10/2012	21/08/2015
A07RP20218	C701-RP20218-CR084	78872.83	35840.13	133.9283	-4.9	-9.5	-11.2	30/10/2012	20/08/2015
A07RP20212	C701-RP20212-CR084	78867.38	35838.52	126.2789	-5.8	-9.7	-12.1	30/10/2012	20/07/2015
A07RP20219	C701-RP20219-CR084	78867.62	35838.56	143.9861	-2.1	-11.1	-14.7	30/10/2012	20/07/2015
A07RP20210	C701-RP20210-CR084	78840.38	35830.39	126.3088	-7.8	-13.2	-6.7	30/10/2012	20/07/2015
A07RP20211	C701-RP20211-CR084	78851.3	35833.77	126.2994	-6.9	-11.6	-8.4	30/10/2012	20/07/2015
A07RP20214	C701-RP20214-CR084	78845.57	35832.03	129.6759	-6.2	-11.7	-7.6	30/10/2012	21/08/2015
A07RP20215	C701-RP20215-CR084	78858.38	35835.85	129.6511	-6.3	-10.9	-11	30/10/2012	20/07/2015
A07RP20216	C701-RP20216-CR084	78840.35	35830.37	131.9127	-5.7	-13.3	-11.2	30/10/2012	20/07/2015
A07RP20217	C701-RP20217-CR084	78851.23	35833.85	134.1775	-4.8	-11.6	-9.3	30/10/2012	21/08/2015
A07RP20220	C701-RP20220-CR084	78875.27	35840.83	143.9869	-2	-11.1	-15.1	30/10/2012	20/07/2015
A07RP20512	C701-RP20512-CR084	78807.77	35794.64	125.2937	5.3	8.5	-15	30/10/2012	02/09/2015
A07RP20514	C701-RP20514-CR084	78809.18	35791.61	129.2613	4	9.3	-16.7	30/10/2012	02/09/2015
A07RP20613	C701-RP20613-CR084	78811.55	35800.31	132.2399	5.7	7.6	-17.3	30/10/2012	20/07/2015
A07RP20615	C701-RP20615-CR084	78805.53	35806.85	126.7538	6.3	5.2	-17.6	30/10/2012	20/07/2015
A07RP20616	C701-RP20616-CR084	78799.3	35804.86	126.8255	5.5	5.2	-14.9	30/10/2012	20/08/2015
A07RP20618	C701-RP20618-CR084	78801.74	35805.6	128.9572	6.2	5.1	-17.8	30/10/2012	20/07/2015
A07RP20619	C701-RP20619-CR084	78794.69	35803.6	128.8976	5.6	5.1	-14.9	30/10/2012	20/08/2015
A07RP20620	C701-RP20620-CR084	78805.53	35806.86	133.7589	6.2	6.3	-18.9	30/10/2012	20/07/2015
A07RP20621	C701-RP20621-CR084	78799.36	35804.89	133.6825	6.9	6.6	-17.2	30/10/2012	02/09/2015
A07RP20513	C701-RP20513-CR084	78812.5	35780.56	129.1991	6.7	10.6	-17.8	30/10/2012	02/09/2015
A07RP20010	C701-RP20010-CR084	78788.75	35814.29	126.5925	9.3	-6.1	-14.2	30/10/2012	21/08/2015
A07RP20012	C701-RP20012-CR084	78804.3	35818.92	127.272	9.8	-8.8	-17.6	30/10/2012	20/07/2015
A07RP20013	C701-RP20013-CR084	78794.62	35816.09	130.04	10.1	-8.5	-17	30/10/2012	20/07/2015
A07RP20014	C701-RP20014-CR084	78802.14	35818.43	130.038	10.2	-11.2	-17.7	30/10/2012	20/07/2015
A07RP20015	C701-RP20015-CR084	78788.73	35814.42	133.964	10.5	-10.2	-16.3	30/10/2012	20/07/2015
A07RP20016	C701-RP20016-CR084	78798.5	35817.46	133.9342	11.2	-10.4	-18.4	30/10/2012	20/07/2015
A07RP20017	C701-RP20017-CR084	78804.27	35819.07	133.946	11.2	-10.1	-19.5	30/10/2012	20/07/2015
A07RP20018	C701-RP20018-CR084	78803.37	35827.13	126.5808	8.3	-12.5	-13.6	30/10/2012	02/09/2015
A07RP21111	C701-RP21111-CR084	78864.16	35784.41	121.5829	-14.7	13	-41.2	30/10/2012	02/09/2015
A07RP21210	C701-RP21210-CR084	78862.88	35783.76	122.2175	-13.7	14.2	-40.7	30/10/2012	02/09/2015
A07RP21211	C701-RP21211-CR084	78855.19	35781.52	122.218	-13.9	14.8	-34.9	30/10/2012	02/09/2015
A07RP21310	C701-RP21310-CR084	78853.44	35780.18	121.54	-14.2	14.5	-32.6	30/10/2012	02/09/2015
A07RP21311	C701-RP21311-CR084	78846.66	35778.06	121.5446	-13.2	14.6	-27.6	30/10/2012	02/09/2015
A07RP21410	C701-RP21410-CR084	78846.16	35776.31	121.6915	-11	14.8	-25.8	30/10/2012	02/09/2015
A07RP22212	C701-RP22212-CR084	78899.34	35844.94	130.9943	-9.9	-3	-29.6	30/10/2012	02/09/2015
A07RP22213	C701-RP22213-CR084	78895.77	35843.6	130.943	-10.6	-1.3	-29.6	30/10/2012	02/09/2015
A07RP22211	C701-RP22211-CR084	78895.47	35843.37	127.5666	-11.8	-1	-30.2	30/10/2012	02/09/2015
A07RP00114	C300-RP700179	78819.39	35706.4	130.312	0.1	1.1	-0.7	07/11/2012	12/02/2015
A07RP00115	C300-RP700180	78822.68	35706.91	136.5633	0.1	1	-0.6	07/11/2012	12/02/2015
A07RP00116	C300-RP700181	78822.68	35706.91	127.5295	0.2	1	-0.9	07/11/2012	12/02/2015
A07RP00117	C300-RP700182	78825.85	35708.08	130.421	0.7	0.9	-0.9	07/11/2012	12/02/2015
A07RP00118	C300-RP700183	78830.21	35709.14	136.5787	0.6	1.4	-1.2	07/11/2012	12/02/2015
A07RP00122	C300-RP700187	78836.16	35711.4	127.3461	-12.5	-10	-0.5	07/11/2012	12/02/2015
A07RP00131	C300-RP700196	78827.35	35747.5	136.1789	-14.4	-6.9	-7.3	07/11/2012	12/02/2015
A07RP00134	C300-RP700199	78825.39	35754.1	136.2026	-14.9	-6.9	-8.7	07/11/2012	12/02/2015
A07RP00142	C300-RP700207	78822.16	35767.37	133.3981	-13.8	-7.5	-16.8	07/11/2012	12/02/2015
A07RP00143	C300-RP700208	78822.06	35767.63	125.6209	-14.8	-10.6	-16.9	07/11/2012	12/02/2015
A07RP00144	C300-RP700209	78820.59	35772.72	129.165	-14.2	-9.4	-20.1	07/11/2012	12/02/2015
A07RP00151	C300-RP700212	78786.92	35695.91	134.6487	-1.2	-0.1	-2.2	07/11/2012	12/02/2015
A07RP00155	C300-RP700216	78796.44	35698.76	131.3031	0	0.7	0.4	07/11/2012	21/10/2013
A07RP00156	C300-RP700217	78800.74	35700.1	128.1687	0.8	1.1	-1.8	07/11/2012	12/02/2015
A07RP00157	C300-RP700218	78800.76	35700.08	134.5539	0.6	1.2	-1.4	07/11/2012	12/02/2015
A07RP00158	C300-RP700219	78801.76	35700.35	128.1899	0.4	1.2	-1.8	07/11/2012	12/02/2015
A07RP00160	C300-RP700221	78810.54	35702.95	134.5887	1.8	1.4	-1.7	07/11/2012	12/02/2015
A07RP20310	C300-RP700540	78823.41	35760.81	126.7203	-14.8	-9.7	-11.7	07/11/2012	12/02/2015
A07RP20311	C300-RP700541	78821.71	35766.54	126.7209	-14.7	-9.7	-16.7	07/11/2012	12/02/2015
A07RP20312	C300-RP700542	78822.51	35763.67	129.8185	-14.5	-8.3	-14.2	07/11/2012	12/02/2015
A07RP20313	C300-RP700543	78823.4	35760.82	131.8991	-14.1	-7.9	-12.1	07/11/2012	12/02/2015
A07RP20314	C300-RP700544	78821.72	35766.53	131.8411	-13.5	-7.6	-16.8	07/11/2012	12/02/2015
A07RP20511	C701-RP20511-CR084	78810.37	35785.98	125.3816	3.9	1	-15.1	07/11/2012	27/01/2014
A07RP20113	C701-RP20113-CR084	78814.19	35834.27	126.5611	0.2	-6.3	-8.6	07/11/2012	27/01/2014
A07RP20121	C701-RP20121-CR084	78814.26	35834.11	133.3634	-0.1	-8.1	-8.7	07/11/2012	27/01/2014
A07RP20117	C701-RP20117-CR084	78816.1	35827.76	128.638	0.7	-8	-13.4	07/11/2012	27/01/2014



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
A07RP20122	C701-RP20122-CR084	78817.97	35823.23	126.5699	0.8	-7.8	-15.2	07/11/2012	27/01/2014
A07RP20127	C701-RP20127-CR084	78817.98	35823.22	132.8407	-1.5	-10	-15.2	07/11/2012	27/01/2014
A07RP21424	C701-RP21424-CR084	78832.38	35772	123.969	-1	10.9	-19.7	07/11/2012	27/01/2014
A07RP21427	C701-RP21427-CR084	78832.38	35771.97	126.0725	-1.1	12.2	-19.6	07/11/2012	27/01/2014
A07RP21426	C701-RP21426-CR084	78834.14	35766.41	125.6913	-0.6	12.3	-15.5	07/11/2012	27/01/2014
A07RP20510	C701-RP20510-CR084	78813.55	35775.41	125.4506	3.1	1.7	-17.6	07/11/2012	27/01/2014
A07RP20110	C701-RP20110-CR084	78802.69	35873.26	126.1003	-1	-2.2	-0.7	07/11/2012	27/01/2014
A07RP20118	C701-RP20118-CR084	78802.74	35873.27	133.4242	-1.3	-4	-1	07/11/2012	27/01/2014
A07RP20114	C701-RP20114-CR084	78805.55	35863.62	128.9779	-0.5	-3.8	-1.4	07/11/2012	27/01/2014
A07RP20111	C701-RP20111-CR084	78807.8	35856.06	126.4696	-0.4	-3.4	-1.9	07/11/2012	27/01/2014
A07RP20119	C701-RP20119-CR084	78807.82	35856.06	133.3552	-0.3	-4.8	-2	07/11/2012	27/01/2014
A07RP20115	C701-RP20115-CR084	78809.15	35850.04	129.2173	-0.1	-4.6	-2.9	07/11/2012	27/01/2014
A07RP20112	C701-RP20112-CR084	78811.31	35843.26	126.4933	0.1	-5	-4.9	07/11/2012	27/01/2014
A07RP20116	C701-RP20116-CR084	78812.53	35839.31	128.4782	-0.2	-6.1	-6.3	07/11/2012	27/01/2014
A07RP29410	C701-RP29410-CR084	78992.78	35964.02	154.0378	0	0	0	07/11/2012	02/09/2015
A07RP00034	C300-RP700405	78781.12	35764.82	133.7508	-1.3	0.4	-1.2	18/11/2012	27/01/2014
A07RP00035	C300-RP700406	78781.12	35764.84	127.609	-3.7	1.6	-2.1	18/11/2012	27/01/2014
A07RP00036	C300-RP700440	78784.4	35765.85	130.511	-2.4	-0.1	-2.5	18/11/2012	27/01/2014
A07RP00039	C300-RP700441	78788.39	35770.89	129.1149	-1.8	0.2	-3.1	18/11/2012	27/01/2014
A07RP00042	C300-RP700442	78786	35778.56	129.103	-0.9	0.3	-1	18/11/2012	27/01/2014
A07RP00045	C300-RP700443	78783.18	35787.68	129.1128	-0.1	0.4	1.4	18/11/2012	27/01/2014
A07RP00022	C300-RP700445	78797.33	35795.32	133.7781	2.2	3.1	0.5	18/11/2012	27/01/2014
A07RP00023	C300-RP700446	78797.35	35795.31	125.9503	1.5	2.2	0.2	18/11/2012	27/01/2014
A07RP00025	C300-RP700447	78799.4	35792.13	125.4686	0.4	3	-0.4	18/11/2012	27/01/2014
A07RP00024	C300-RP700448	78799.42	35792.09	133.9329	1.5	3	-0.7	18/11/2012	27/01/2014
A07RP00026	C300-RP700449	78800.05	35788.41	128.9229	0.9	2.9	-1.7	18/11/2012	27/01/2014
A07RP00028	C300-RP700450	78802.12	35783.21	125.4741	0.2	2.9	-3.4	18/11/2012	27/01/2014
A07RP00027	C300-RP700451	78802.13	35783.14	133.9373	0.1	2.9	-3.3	18/11/2012	27/01/2014
A07RP00209	C300-RP700452	78803.06	35780.05	128.9733	-0.3	3.3	-4.6	18/11/2012	27/01/2014
A07RP00211	C300-RP700453	78803.53	35777.71	125.4749	-0.9	3.2	-5.2	18/11/2012	27/01/2014
A07RP00210	C300-RP700454	78803.52	35777.69	133.9297	-0.2	2.8	-4.8	18/11/2012	27/01/2014
A07RP00212	C300-RP700455	78805.24	35772.77	133.9352	-0.6	2.5	-5.4	18/11/2012	27/01/2014
A07RP00050	C300-RP700456	78804.16	35772.29	129.4348	-2.4	6.7	-5.7	18/11/2012	27/01/2014
A07RP00213	C300-RP700457	78805.29	35772.67	125.463	-2.2	4.8	-5.8	18/11/2012	27/01/2014
A07RP00052	C300-RP700458	78798.88	35770.21	128.9352	-3.1	7.4	-5.5	18/11/2012	27/01/2014
A07RP00051	C300-RP700459	78798.89	35770.2	125.6588	-2.7	5.6	-5.7	18/11/2012	27/01/2014
A07RP00053	C300-RP700460	78800.14	35766.12	128.9556	-3.5	6.9	-3.5	18/11/2012	27/01/2014
A07RP00054	C300-RP700461	78800.18	35766.03	125.6763	-3.4	5.4	-4	18/11/2012	27/01/2014
A07RP00055	C300-RP700462	78801.15	35762.84	125.6747	-3.4	5.2	-1.9	18/11/2012	27/01/2014
A07RP00056	C300-RP700463	78801.16	35762.81	128.9563	-3.1	6.8	-1.7	18/11/2012	27/01/2014
A07RP00057	C300-RP700464	78803	35758.4	133.7687	-3.2	8.2	0.9	18/11/2012	27/01/2014
A07RP00058	C300-RP700465	78802.53	35758.26	129.0102	-3.4	6.6	0.9	18/11/2012	27/01/2014
A07RP00059	C300-RP700466	78802.54	35758.21	125.6898	-3.9	5.2	0.9	18/11/2012	27/01/2014
A07RP00234	C300-RP700545	78747.73	35801.89	132.5436	1.7	-8	-13.6	12/12/2012	20/07/2015
A07RP00235	C300-RP700546	78752.48	35803.44	139.3967	3.1	-10.3	-12.4	06/12/2012	20/07/2015
A07RP00236	C300-RP700547	78752.48	35803.44	133.3047	3.2	-8.1	-11.4	06/12/2012	02/09/2015
A07RP00237	C300-RP700548	78752.56	35803.45	127.3022	1.8	-6.1	-12.8	06/12/2012	02/09/2015
A07RP00238	C300-RP700549	78761.06	35806.03	125.8144	1.7	-6.2	-14.5	06/12/2012	20/07/2015
A07RP00241	C300-RP700550	78768.99	35808.33	128.7472	3.3	-6.9	-14.7	06/12/2012	20/07/2015
A07RP00250	C300-RP700551	78814.18	35775.02	133.7349	0.2	7.2	-22.5	06/12/2012	20/07/2015
A07RP00251	C300-RP700552	78816.58	35775.76	128.5572	3.1	5.1	-22.2	06/12/2012	17/04/2015
A07RP00263	C300-RP700553	78770.64	35796.36	134.0759	3	1.3	-10.8	06/12/2012	20/08/2015
A07RP00264	C300-RP700554	78770.64	35796.34	126.361	0.7	2	-11.8	06/12/2012	20/08/2015
A07RP00265	C300-RP700555	78774.98	35797.68	129.1079	2.4	1.3	-12.2	06/12/2012	20/08/2015
A07RP00363	C300-RP700556	78731.2	35789.8	129.8473	0.7	0.4	-6.3	05/12/2012	02/09/2015
A07RP00364	C300-RP700557	78732.06	35786.87	129.8574	0.8	0.9	-6.9	05/12/2012	02/09/2015
A07RP00366	C300-RP700558	78879.92	35724.27	132.6134	-1.6	3.8	0.2	06/12/2012	12/02/2015
A07RP00367	C300-RP700559	78879.9	35724.31	126.0296	-1.2	-0.9	-2.4	06/12/2012	09/07/2013
A07RP00368	C300-RP700560	78882.18	35724.95	129.5423	-1.5	3.6	0.2	06/12/2012	12/02/2015
A07RP00369	C300-RP700561	78884.33	35725.64	132.5698	-1.1	3.5	-0.3	06/12/2012	12/02/2015
A07RP00370	C300-RP700562	78884.37	35725.68	126.004	-1.9	3.2	-0.3	06/12/2012	12/02/2015
A07RP00371	C300-RP700563	78886.23	35726.22	129.498	-1.3	3.5	-0.1	06/12/2012	12/02/2015
A07RP00372	C300-RP700564	78887.92	35726.78	132.5829	-1.1	3.9	0.1	06/12/2012	12/02/2015
A07RP00373	C300-RP700565	78887.92	35726.78	125.9717	-1.4	3	-0.1	06/12/2012	12/02/2015
A07RP00384	C300-RP700568	78798.17	35888.62	135.6543	0.4	-1.5	-1.5	06/12/2012	27/01/2014
A07RP00385	C300-RP700569	78798.16	35888.61	126.133	-0.2	-1.3	-1.9	06/12/2012	27/01/2014
A07RP00386	C300-RP700570	78799.17	35885.5	131.6825	-0.2	-1.4	-1.7	06/12/2012	27/01/2014
A07RP00387	C300-RP700571	78800.18	35881.68	135.6727	0.1	-1.8	-2	06/12/2012	27/01/2014
A07RP00388	C300-RP700572	78800.19	35881.61	126.233	0.5	-1.2	-2.2	06/12/2012	27/01/2014





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
A07RP00389	C300-RP700573	78802.22	35875.03	133.0807	0.2	-2.2	-1.8	06/12/2012	27/01/2014
A07RP00390	C300-RP700574	78802.19	35875.13	126.0633	0.8	-1.3	-1.9	06/12/2012	27/01/2014
A07RP00410	C300-RP700755	78804.23	35772.29	125.9031	3.6	3.4	-19.8	25/01/2013	27/01/2014
A07RP00257	C300-RP700765	78796.09	35746	125.7594	0.5	3	-8	25/01/2013	27/01/2014
A07RP00407	C300-RP701030	78742.04	35924.82	134.874	3	-2.9	-4.1	20/02/2013	02/09/2015
A07RP00020	C300-RP700771	78793.2	35794.45	126.7101	4.1	0.5	-11.4	25/01/2013	27/01/2014
A07RP00037	C300-RP700773	78787.25	35766.7	133.7357	8.1	-3.5	-14.2	04/03/2013	27/01/2014
A07RP00038	C300-RP700774	78787.19	35766.72	127.6161	6.8	-2.3	-13.7	04/03/2013	27/01/2014
A07RP00040	C300-RP700775	78787.02	35773.75	133.3889	7.7	-3.1	-14.9	25/01/2013	27/01/2014
A07RP00041	C300-RP700776	78787.09	35773.47	127.0658	7.1	-2.3	-12.9	04/03/2013	27/01/2014
A07RP00043	C300-RP700777	78784.36	35783.01	134.7136	8.6	-3.2	-10.4	04/03/2013	27/01/2014
A07RP00044	C300-RP700778	78784.16	35782.94	127.0503	7.3	-1.9	-10.2	04/03/2013	27/01/2014
A07RP00046	C300-RP700779	78781.18	35792.64	133.9064	8.3	-2.6	-8	04/03/2013	27/01/2014
A07RP00047	C300-RP700780	78781.18	35792.61	127.2029	7.5	-1.7	-8.2	04/03/2013	27/01/2014
A07RP00061	C300-RP700782	78850.85	35715.96	130.9065	-0.1	1.8	1.8	23/05/2013	12/02/2015
A07RP00146	C300-RP700783	78819.47	35776.38	125.9875	-2.1	-0.2	-24.9	10/03/2013	02/09/2015
A07RP00162	C300-RP700787	78807.45	35715.66	127.8672	0.4	3.9	-5.2	25/01/2013	27/01/2014
A07RP00163	C300-RP700788	78807.46	35715.67	134.4285	-0.5	3.8	-3.7	25/01/2013	27/01/2014
A07RP00164	C300-RP700789	78803.2	35716.74	132.0586	0.2	4	-5	25/01/2013	27/01/2014
A07RP00165	C300-RP700790	78801.12	35723.35	132.0009	-0.6	3.7	-5.3	25/01/2013	27/01/2014
A07RP00167	C300-RP700792	78803.15	35726.32	127.8693	-0.8	1.8	0.8	27/06/2013	27/01/2014
A07RP00168	C300-RP700793	78801.6	35730.55	131.2189	-0.8	4.6	-6	25/01/2013	27/01/2014
A07RP00169	C300-RP700794	78799.03	35737.52	127.8157	-0.5	4.5	-6.9	25/01/2013	27/01/2014
A07RP00170	C300-RP700795	78799.05	35737.53	134.5749	-0.5	5.1	-6.8	25/01/2013	27/01/2014
A07RP00220	C300-RP700796	78742.32	35819.18	127.3304	1	-4	-4	25/01/2013	03/01/2014
A07RP00222	C300-RP700798	78743.33	35814.6	127.2515	1	-3.7	-4.7	25/01/2013	03/01/2014
A07RP00223	C300-RP700799	78743.69	35814.6	133.2593	6.6	-3.2	-5.8	25/01/2013	03/01/2014
A07RP00224	C300-RP700800	78744.78	35812.72	134.1835	6.9	-3.7	-6	25/01/2013	03/01/2014
A07RP00225	C300-RP700801	78744.5	35811.97	126.8829	1.2	-3.7	-5.2	25/01/2013	03/01/2014
A07RP00226	C300-RP700802	78745.22	35809.59	126.8816	1.5	-4.4	-5.9	25/01/2013	03/01/2014
A07RP00229	C300-RP700805	78746.03	35806.88	133.3089	1.6	-5.6	-6.3	25/01/2013	03/01/2014
A07RP00231	C300-RP700807	78747.43	35802.21	139.484	3.1	-7.1	-7.1	04/03/2013	03/01/2014
A07RP00243	C300-RP700813	78865.33	35719.73	135.5694	-1.1	3.6	0.6	04/03/2013	12/02/2015
A07RP00244	C300-RP700814	78869.17	35720.91	135.64	-1	3.4	0.4	04/03/2013	12/02/2015
A07RP00245	C300-RP700815	78871.98	35721.76	135.7238	-1.1	3.6	0.5	04/03/2013	12/02/2015
A07RP00246	C300-RP700816	78867.37	35720.36	131.4859	-0.4	2.8	-0.2	04/03/2013	12/02/2015
A07RP00247	C300-RP700817	78865.61	35719.84	125.0953	-1	1.2	0.4	04/03/2013	12/02/2015
A07RP00248	C300-RP700818	78869.16	35720.95	125.1028	-2	0.8	-0.8	04/03/2013	12/02/2015
A07RP00249	C300-RP700819	78871.85	35721.78	124.9825	-1.4	1.9	0.7	04/03/2013	12/02/2015
A07RP00252	C300-RP700820	78814.17	35775.04	125.7355	2.3	1.6	-17.1	04/03/2013	27/01/2014
A07RP00253	C300-RP700821	78798.83	35738.12	131.6938	-0.5	5.2	-6.9	25/01/2013	27/01/2014
A07RP00254	C300-RP700822	78798.82	35738.11	125.7656	-0.5	4.5	-7.5	25/01/2013	27/01/2014
A07RP00255	C300-RP700823	78797.53	35741.85	128.2678	-0.8	4.8	-7.6	25/01/2013	27/01/2014
A07RP00256	C300-RP700824	78796.08	35746.06	131.7104	-0.9	5.4	-8.3	25/01/2013	27/01/2014
A07RP20011	C300-RP700836	78797.32	35816.9	126.6551	-0.3	1.9	-18.1	10/03/2013	02/09/2015
A07RP20611	C300-RP700837	78809.7	35806.45	127.1342	-1	2.1	-16.9	04/03/2013	20/07/2015
A07RP00300	C300-RP700884	78766.65	35791.33	133.9821	4.6	-1.9	-5.7	25/01/2013	19/11/2013
A07RP00301	C300-RP700885	78766.6	35791.32	127.3367	4.7	0.2	-5	25/01/2013	02/10/2013
A07RP00302	C300-RP700886	78763.6	35790.87	133.9752	4.7	-0.2	-4.5	25/01/2013	02/10/2013
A07RP00303	C300-RP700887	78763.61	35790.87	127.3414	4.5	0	-4.5	25/01/2013	02/10/2013
A07RP00304	C300-RP700888	78759.99	35789.76	133.97	4.2	-0.4	-4.3	25/01/2013	02/10/2013
A07RP00305	C300-RP700889	78759.96	35789.74	127.4393	2	-1.5	-4.1	25/01/2013	23/05/2013
A07RP00306	C300-RP700890	78757.3	35788.32	130.5733	4.2	-0.2	-3.6	25/01/2013	03/10/2013
A07RP00307	C300-RP700891	78752.25	35786.78	133.9392	3.6	-0.6	-3.2	25/01/2013	02/10/2013
A07RP00309	C300-RP700893	78753.52	35782.16	134.3343	3.8	-0.8	-3.5	25/01/2013	03/10/2013
A07RP00310	C300-RP700894	78753.56	35782.04	127.5768	2.8	-1	-3.9	25/01/2013	02/10/2013
A07RP00311	C300-RP700895	78755.16	35776.45	134.3152	4.3	-1.2	-5.3	25/01/2013	03/10/2013
A07RP00312	C300-RP700896	78755.07	35776.7	127.5713	3.8	0.1	-6.6	25/01/2013	30/08/2013
A07RP00313	C300-RP700897	78756.54	35772	134.3171	4.3	-1.7	-6	25/01/2013	03/10/2013
A07RP00314	C300-RP700898	78756.52	35772.01	127.6205	3.7	-1	-5.8	25/01/2013	02/10/2013
A07RP00315	C300-RP700899	78757.78	35767.94	134.3179	4.4	-1.7	-6.3	25/01/2013	03/10/2013
A07RP00316	C300-RP700900	78757.77	35767.94	127.2735	3.6	-0.9	-6.8	25/01/2013	02/10/2013
A07RP00317	C300-RP700901	78759.33	35762.83	130.8562	3.8	-2.2	-6.7	25/01/2013	03/10/2013
A07RP00318	C300-RP700902	78760.05	35758.76	134.3297	4.2	-2.9	-8.3	25/01/2013	05/09/2013
A07RP00319	C300-RP700903	78760.07	35758.81	127.2216	3.3	-2.2	-9.2	25/01/2013	30/08/2013
A07RP00320	C300-RP700904	78762.84	35758.63	130.3852	3.1	-2.6	-11.7	25/01/2013	03/10/2013
A07RP00321	C300-RP700905	78769.47	35760.58	134.5773	4.6	-4.2	-13.9	25/01/2013	01/10/2013
A07RP00322	C300-RP700906	78769.47	35760.78	127.2889	3.3	-2.6	-14	25/01/2013	02/10/2013
A07RP00323	C300-RP700907	78772.31	35761.64	130.2032	4	-2.4	-12.8	25/01/2013	03/10/2013



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
A07RP00324	C300-RP700908	78775.13	35763.16	134.332	5.7	-2.4	-12	25/01/2013	07/10/2013
A07RP00325	C300-RP700909	78775.36	35763.09	127.2443	4.1	-2.6	-13.8	25/01/2013	02/10/2013
A07RP00326	C300-RP700910	78765.14	35744.03	129.9179	-0.4	5.8	-2.5	25/01/2013	02/01/2014
A07RP00327	C300-RP700911	78765.15	35744.03	126.7306	-0.1	4.7	-2.4	25/01/2013	02/01/2014
A07RP00328	C300-RP700912	78765.94	35741.36	129.9285	-0.1	5	-2.7	25/01/2013	03/01/2014
A07RP00329	C300-RP700913	78765.98	35741.3	126.7386	0.1	4.3	-2.3	25/01/2013	03/01/2014
A07RP00330	C300-RP700914	78766.88	35738.34	129.0387	0.1	4.8	-1.1	25/01/2013	02/01/2014
A07RP00333	C300-RP700917	78764.82	35737.26	127.6313	0.1	4.3	-1.8	25/01/2013	02/01/2014
A07RP00335	C300-RP700919	78766.29	35732.41	127.5629	-0.3	3.7	-0.7	25/01/2013	02/01/2014
A07RP00336	C300-RP700920	78767.83	35726.97	131.6089	-0.8	3.2	-0.7	25/01/2013	03/01/2014
A07RP00340	C300-RP700924	78770.07	35719.82	134.7854	-0.4	2.6	0.3	25/01/2013	01/01/2014
A07RP00343	C300-RP700927	78764.35	35747.2	129.913	0.2	3.9	-9.3	25/01/2013	27/01/2014
A07RP00344	C300-RP700928	78764.37	35747.2	126.7286	0	3	-9.4	25/01/2013	27/01/2014
A07RP00345	C300-RP700929	78769.09	35748.67	129.9108	0.1	3.9	-9.4	25/01/2013	27/01/2014
A07RP00346	C300-RP700930	78769.09	35748.64	126.8768	0.3	3.2	-9.7	25/01/2013	27/01/2014
A07RP00347	C300-RP700931	78773.71	35750.08	129.908	0	3.9	-10.6	25/01/2013	27/01/2014
A07RP00348	C300-RP700932	78773.74	35750.07	126.7109	0.3	3.2	-10	25/01/2013	27/01/2014
A07RP00349	C300-RP700933	78780.79	35752.27	129.9103	0.4	4	-10	25/01/2013	27/01/2014
A07RP00350	C300-RP700934	78780.78	35752.25	126.7139	0.7	3.3	-10.2	25/01/2013	27/01/2014
A07RP00351	C300-RP700935	78787.14	35754.23	129.9859	0.8	4	-10.4	25/01/2013	27/01/2014
A07RP00352	C300-RP700936	78787.11	35754.16	126.6877	0.9	3.5	-10.6	25/01/2013	27/01/2014
A07RP00353	C300-RP700937	78789.74	35755.02	128.0827	1	3.5	-10.4	25/01/2013	27/01/2014
A07RP00354	C300-RP700938	78792.31	35755.81	129.9168	1.2	4.2	-10.6	25/01/2013	27/01/2014
A07RP00355	C300-RP700939	78792.41	35755.83	126.723	1.2	3.1	-11.3	25/01/2013	27/01/2014
A07RP00356	C300-RP700940	78793.52	35752.89	132.2831	1.4	4.6	-10	25/01/2013	27/01/2014
A07RP00357	C300-RP700941	78793.59	35752.86	128.1607	1.3	3.6	-10.3	25/01/2013	27/01/2014
A07RP00358	C300-RP700942	78794.49	35749.98	129.9141	1.5	3.9	-9.3	25/01/2013	27/01/2014
A07RP00359	C300-RP700943	78794.46	35750.09	126.7122	1.4	2.9	-9.6	25/01/2013	27/01/2014
A07RP00360	C300-RP700944	78795.45	35746.61	128.9854	1.1	3.2	-8	25/01/2013	27/01/2014
A07RP00361	C300-RP700945	78795.46	35746.56	126.7363	1.3	2.4	-8.3	25/01/2013	27/01/2014
A07RP00362	C300-RP700946	78765.52	35745.1	136.6868	0.6	6.7	-4.4	25/01/2013	27/01/2014
A07RP00405	C300-RP700973	78700.27	35951.07	133.899	0	0	0	25/01/2013	02/09/2015
A07RP00406	C300-RP700974	78714.4	35907.38	132.706	1	1	2	25/01/2013	02/09/2015
A07RP00420	C300-RP701031	78737.09	35836.84	130.7144	-4.3	-6.3	-1.3	06/02/2013	02/01/2014
A07RP00421	C300-RP701032	78739.6	35828.78	130.766	5.4	-3	-1.8	28/01/2013	03/01/2014
A07RP00422	C300-RP701033	78739.94	35827.62	133.4147	6.1	-3.2	-1.6	28/01/2013	02/01/2014
A07RP00423	C300-RP701034	78739.91	35827.74	127.0118	1.2	-1.4	0.4	28/01/2013	02/01/2014
A07RP00424	C300-RP701035	78740.16	35826.87	133.4105	0.7	-4.4	-1	28/01/2013	03/01/2014
A07RP00425	C300-RP701036	78740.19	35826.78	126.9625	0.5	-3.4	-0.9	28/01/2013	03/01/2014
A07RP00426	C300-RP701037	78741.1	35823.67	131.279	1.2	-4.5	-1.7	28/01/2013	03/01/2014
A07RP00427	C300-RP701038	78742.16	35820.19	133.4462	2.1	-3.4	-1.2	28/01/2013	02/01/2014
A07RP00428	C300-RP701039	78742.15	35820.23	127.0783	1.3	-4.2	-2.3	28/01/2013	03/01/2014
A07RP00440	C300-RP701138	78733.53	35849.05	127.8214	-0.8	-2.3	1.4	05/03/2013	02/01/2014
A07RP00441	C300-RP701139	78734.35	35846.08	130.7778	-1.8	-4.4	0	06/03/2013	02/01/2014
A07RP00442	C300-RP701140	78735.69	35841.18	127.0748	0.7	-4.2	1.6	05/03/2013	02/01/2014
A07RP00443	C300-RP701141	78736.1	35839.83	127.0156	-1.1	-4.2	0	10/03/2013	03/01/2014
A07RP00444	C300-RP701142	78737.64	35835.2	133.8987	-2	-5.6	-0.7	14/03/2013	03/01/2014
A07RP00445	C300-RP701143	78737.65	35835.03	127.1139	-0.2	-3.6	0.2	05/03/2013	02/01/2014
A07RP00446	C300-RP701144	78738.14	35833.7	133.4654	2.4	-4.6	-2	05/03/2013	03/01/2014
A07RP00447	C300-RP701145	78738.02	35834.22	127.0618	3.5	-3.7	-1.8	05/03/2013	03/01/2014
A07RP00451	C300-RP701170	78784.9	35821.64	133.8114	4.5	-9	-7.1	05/03/2013	27/01/2014
A07RP00452	C300-RP701171	78784.9	35821.65	125.9997	3.3	-6	-7	05/03/2013	27/01/2014
A07RP00453	C300-RP701275	78735.47	35842.13	133.9396	0.8	-0.6	1.6	23/05/2013	02/01/2014
A07RP21414	C701-RP21414-CR084	78838.43	35774.59	121.7025	5.6	9.9	-37.9	05/03/2013	26/10/2015
A07RP21416	C701-RP21416-CR084	78837.98	35776.06	124.4869	-13.9	17.8	-25.9	05/03/2013	26/10/2015
A07RP21420	C701-RP21420-CR084	78831.16	35776.93	123.8857	-0.6	10.7	-31.3	05/03/2013	26/10/2015
A07RP21710	C701-RP21710-CR084	78923.51	35770.71	140.9046	-0.9	3.6	-10.9	18/11/2012	27/01/2014
A07RP20019	C701-RP20019-CR084	78803.37	35827.52	133.8082	5.6	-9.2	-13.9	18/11/2012	27/01/2014
A07RP21421	C701-RP21421-CR084	78834.03	35777.82	124.6299	-0.3	8.3	-26.2	18/11/2012	27/01/2014
A07RP21413	C701-RP21413-CR084	78839.4	35774.19	124.4115	-0.8	9.1	-24.1	18/11/2012	27/01/2014
A07RP21213	C701-RP21213-CR084	78862.77	35783.9	125.2845	-1.1	8.1	-35	18/11/2012	27/01/2014
A07RP20914	C701-RP20914-CR084	78886.72	35791.07	124.9582	-4.2	5.1	-36.7	18/11/2012	27/01/2014
A07RP20915	C701-RP20915-CR084	78881.28	35789.37	124.905	-3.7	3.2	-36	18/11/2012	27/01/2014
A07RP20125	C701-RP20125-CR084	78821.81	35824.39	129.6746	-0.4	-9.7	-27.4	18/11/2012	27/01/2014
A07RP20126	C701-RP20126-CR084	78830.11	35826.9	129.6518	0.7	-10.7	-28.8	18/11/2012	27/01/2014
A07RP20128	C701-RP20128-CR084	78827.11	35825.98	132.8505	-0.2	-11.8	-30.4	18/11/2012	27/01/2014
A07RP20129	C701-RP20129-CR084	78837.5	35829.03	132.7568	0.7	-10	-21.5	18/11/2012	27/01/2014
A07RP20123	C701-RP20123-CR084	78827.32	35826.06	126.4391	0.8	-9.3	-30.4	18/11/2012	27/01/2014
A07RP20124	C701-RP20124-CR084	78837.47	35828.97	126.3466	1.4	-7.5	-21.2	18/11/2012	27/01/2014



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
A07RP21010	C701-RP21010-CR084	78880.98	35789.06	121.5737	-3.6	3.7	-35.1	18/11/2012	27/01/2014
A07RP21011	C701-RP21011-CR084	78870.77	35786.09	122.1069	-3.4	4.5	-33.1	18/11/2012	27/01/2014
A07RP21012	C701-RP21012-CR084	78873.96	35787.02	122.4794	-3.3	3.9	-33.7	18/11/2012	27/01/2014
A07RP21013	C701-RP21013-CR084	78880.53	35788.95	125.3991	-3.7	5	-34.9	18/11/2012	27/01/2014
A07RP21014	C701-RP21014-CR084	78871.21	35786.25	125.3323	-3.7	5.6	-33.1	18/11/2012	27/01/2014
A07RP21110	C701-RP21110-CR084	78869.72	35785.77	121.5011	-2.8	4.6	-33.4	18/11/2012	27/01/2014
A07RP21112	C701-RP21112-CR084	78869.78	35785.81	123.9711	-3.3	5.8	-33.5	18/11/2012	27/01/2014
A07RP21113	C701-RP21113-CR084	78864.14	35784.15	124.0586	-3.3	6.9	-35.4	18/11/2012	27/01/2014
A07RP21212	C701-RP21212-CR084	78858.88	35782.6	123.8263	-2.2	7.6	-34.4	18/11/2012	27/01/2014
A07RP21214	C701-RP21214-CR084	78855.2	35781.55	125.3006	-2.9	9.5	-33.7	18/11/2012	27/01/2014
A07RP21312	C701-RP21312-CR084	78849.85	35779.08	123.059	-2.4	7.9	-31.8	18/11/2012	27/01/2014
A07RP21313	C701-RP21313-CR084	78853.3	35780.17	124.5847	-2.9	8.9	-33.2	18/11/2012	27/01/2014
A07RP21314	C701-RP21314-CR084	78846.66	35778.08	124.5827	-2.5	9.1	-30.1	18/11/2012	27/01/2014
A07RP21412	C701-RP21412-CR084	78846.07	35776.28	124.4009	-1.2	8.8	-28.3	18/11/2012	27/01/2014
A07RP21417	C701-RP21417-CR084	78838.45	35774.6	126.6631	-0.8	10.6	-24.6	18/11/2012	27/01/2014
A07RP21423	C701-RP21423-CR084	78831.17	35776.93	126.4361	-0.4	9.6	-27.2	18/11/2012	27/01/2014
A07RP00062	C300-RP700152	78850.87	35715.96	127.3302	-0.2	1.9	0	18/11/2012	27/01/2014
A07RP00063	C300-RP700153	78850.92	35716.1	135.5558	-0.5	2.4	0	18/11/2012	27/01/2014
A07RP00064	C300-RP700154	78858.48	35718.65	135.841	-0.7	2.1	0	18/11/2012	27/01/2014
A07RP00065	C300-RP700155	78858.49	35718.64	131.032	-0.4	1.9	0	18/11/2012	27/01/2014
A07RP00066	C300-RP700156	78858.52	35718.65	127.1826	-0.4	1.6	0.2	18/11/2012	27/01/2014
A07RP00067	C300-RP700157	78859.44	35717.92	126.295	-0.3	1.3	0.2	18/11/2012	27/01/2014
A07RP00068	C300-RP700158	78859.75	35718.04	136.7792	-0.8	2.1	0.1	18/11/2012	27/01/2014
A07RP00069	C300-RP700159	78862.3	35718.84	129.8979	-0.4	1.4	0.2	18/11/2012	27/01/2014
A07RP00070	C300-RP700160	78864.61	35719.55	126.3122	-0.2	0.8	0.2	18/11/2012	27/01/2014
A07RP00071	C300-RP700161	78864.67	35719.58	136.878	-0.7	1.5	0.2	18/11/2012	27/01/2014
A07RP00072	C300-RP700162	78872.49	35721.75	126.5299	-0.2	0.5	0.4	18/11/2012	27/01/2014
A07RP00073	C300-RP700163	78873.14	35721.89	132.3501	-0.9	1.2	0.5	18/11/2012	27/01/2014
A07RP00075	C300-RP700165	78876.73	35723.11	132.3063	1.6	-0.9	0.3	18/11/2012	27/01/2014
A07RP00077	C300-RP700167	78878.76	35723.75	126.5736	-0.3	0.4	0.9	18/11/2012	27/01/2014
A07RP00078	C300-RP700168	78878.82	35723.74	132.2991	0.8	1.2	0.7	18/11/2012	27/01/2014
A07RP00079	C300-RP700169	78889.25	35727.17	125.755	0.1	0.3	0.5	18/11/2012	27/01/2014
A07RP00080	C300-RP700170	78889.4	35727.21	132.8916	0	0.5	0.6	18/11/2012	27/01/2014
A07RP00081	C300-RP700171	78893.82	35728.6	130.2608	0.1	1.1	1	18/11/2012	27/01/2014
A07RP00082	C300-RP700172	78898.27	35729.98	132.9091	-0.1	1	1.1	18/11/2012	27/01/2014
A07RP00083	C300-RP700173	78898.27	35730	125.7711	-0.1	0.6	1.3	18/11/2012	27/01/2014
A07RP00084	C300-RP700174	78904.27	35731.85	130.1209	1.7	0.7	2.1	18/11/2012	27/01/2014
A07RP00086	C300-RP700176	78908.69	35733.22	132.8275	2.4	3.1	0.8	18/11/2012	27/01/2014
A07RP00112	C300-RP700177	78816.8	35705.64	127.3613	0.3	1.6	1.1	18/11/2012	27/01/2014
A07RP00113	C300-RP700178	78816.83	35705.64	136.2059	0.3	2.3	1	18/11/2012	27/01/2014
A07RP00119	C300-RP700184	78830.5	35709.23	127.4791	0.1	1.4	-0.1	18/11/2012	27/01/2014
A07RP00120	C300-RP700185	78833.28	35710.54	130.3216	0.1	1.9	-0.4	18/11/2012	27/01/2014
A07RP00121	C300-RP700186	78836.15	35711.38	136.2506	0.2	2.1	-0.6	18/11/2012	27/01/2014
A07RP00123	C300-RP700188	78837.23	35713.34	136.2046	0.2	2.2	-1.1	18/11/2012	27/01/2014
A07RP00124	C300-RP700189	78837.22	35713.34	127.3541	0.3	1.7	-0.9	18/11/2012	27/01/2014
A07RP00125	C300-RP700190	78831.12	35734.29	132.5322	0.3	3.4	-2.4	18/11/2012	27/01/2014
A07RP00126	C300-RP700191	78831.12	35734.3	127.667	0.2	2.3	-2.3	18/11/2012	27/01/2014
A07RP00127	C300-RP700192	78830.32	35736.79	129.729	0.3	2.5	-3.1	18/11/2012	27/01/2014
A07RP00128	C300-RP700193	78829.29	35740.92	136.2767	0.4	4.1	-3.4	18/11/2012	27/01/2014
A07RP00129	C300-RP700194	78829.24	35741.07	127.661	0.3	2.2	-3.4	18/11/2012	27/01/2014
A07RP00130	C300-RP700195	78828.49	35743.41	129.6419	0.6	2.8	-4.2	18/11/2012	27/01/2014
A07RP00132	C300-RP700197	78827.31	35747.59	128.2207	0.8	2.7	-5.3	18/11/2012	27/01/2014
A07RP00133	C300-RP700198	78826.58	35749.87	129.6407	1.1	3	-5.8	18/11/2012	27/01/2014
A07RP00135	C300-RP700200	78825.37	35754.14	127.0138	1.3	2.6	-6.9	18/11/2012	27/01/2014
A07RP00136	C300-RP700201	78824.49	35756.53	129.7819	1	3.3	-8.4	18/11/2012	27/01/2014
A07RP00145	C300-RP700210	78819.79	35775.31	134.21	2.2	4.3	-21.1	18/11/2012	27/01/2014
A07RP00154	C300-RP700215	78792.52	35697.57	134.6659	0.8	-0.3	-0.3	18/11/2012	27/01/2014
A07RP00159	C300-RP700220	78801.95	35700.36	134.579	0.2	1.8	0.2	18/11/2012	27/01/2014
A07RP00161	C300-RP700222	78810.95	35703.12	128.1801	0.3	1.2	1.3	18/11/2012	27/01/2014
A07RP00193	C300-RP700223	78836.76	35717.25	136.1851	0.1	2.2	-1.1	18/11/2012	27/01/2014
A07RP00194	C300-RP700224	78836.75	35717.25	127.4383	0.1	1.6	-1.1	18/11/2012	27/01/2014
A07RP00195	C300-RP700225	78835.42	35721.73	133.4511	0.2	2	-2.2	18/11/2012	27/01/2014
A07RP00196	C300-RP700226	78834.1	35726.24	136.187	0.3	2.1	-1.8	18/11/2012	27/01/2014
A07RP00197	C300-RP700227	78834.11	35726.24	127.797	0.3	1.6	-1.8	18/11/2012	27/01/2014
A07RP00198	C300-RP700228	78832.68	35729.39	127.239	0.3	1.6	-1.9	18/11/2012	27/01/2014
A07RP00199	C300-RP700229	78832.66	35729.43	136.1702	0.4	2	-2.1	18/11/2012	27/01/2014
A07RP00200	C300-RP700230	78848.61	35722.54	127.7168	-0.1	1.5	-1.2	18/11/2012	27/01/2014
A07RP00201	C300-RP700231	78848.61	35722.54	131.1321	-0.3	1.8	-1.2	18/11/2012	27/01/2014
A07RP00202	C300-RP700232	78848.61	35722.55	136.6092	-0.4	2.3	-1.3	18/11/2012	27/01/2014



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
A07RP00203	C300-RP700233	78843.9	35733.94	127.4768	-0.2	1.2	-2.5	18/11/2012	27/01/2014
A07RP00204	C300-RP700234	78843.91	35733.95	131.1273	-0.4	1.5	-2.5	18/11/2012	27/01/2014
A07RP00205	C300-RP700235	78843.93	35734.08	136.6719	-0.4	2	-2.6	18/11/2012	27/01/2014
A07RP00206	C300-RP700236	78841.63	35744.04	136.6426	-0.2	1.7	-4.2	18/11/2012	27/01/2014
A07RP00207	C300-RP700237	78841.62	35744.09	131.0655	-0.6	1.3	-4.3	18/11/2012	27/01/2014
A07RP00208	C300-RP700238	78841.62	35744.11	127.5581	-0.5	1.2	-4.3	18/11/2012	27/01/2014
A07RP21425	C701-RP21425-CR084	78836.53	35758.84	123.983	-0.7	8.3	-11	18/11/2012	27/01/2014
A07RP21428	C701-RP21428-CR084	78836.52	35758.85	126.0842	-0.7	9.8	-11.6	18/11/2012	27/01/2014
A07RP20120	C701-RP20120-CR084	78811.33	35843.28	133.3626	-0.3	-6.4	-5.1	18/11/2012	27/01/2014
A07RP00171	C300-RP700400	78775.65	35810.78	127.6012	3.1	-4.3	-10.4	18/11/2012	27/01/2014
A07RP00001	C300-RP700401	78771.44	35865.59	133.7728	2.1	-3.6	0.5	18/11/2012	27/01/2014
A07RP00002	C300-RP700402	78771.46	35865.55	126.0357	1.8	-2.3	1.7	18/11/2012	27/01/2014
A07RP00182	C300-RP700403	78765.78	35843.29	131.788	3	-4.1	-1.4	18/11/2012	27/01/2014
A07RP00183	C300-RP700404	78764.53	35847.39	128.2382	2.7	-3.6	0	18/11/2012	27/01/2014
A07RP00110	C300-RP700407	78814.62	35707.01	136.0976	0.2	0.3	1.4	18/11/2012	27/01/2014
A07RP00111	C300-RP700408	78814.66	35706.88	127.4364	0.1	-0.3	1.3	18/11/2012	27/01/2014
A07RP00266	C300-RP700409	78778.88	35798.89	126.3715	3.9	-3.4	-7.2	18/11/2012	27/01/2014
A07RP00267	C300-RP700410	78778.85	35798.91	134.0694	5	-4.7	-7.5	18/11/2012	27/01/2014
A07RP00003	C300-RP700411	78772.69	35861.57	133.7842	2	-3.5	0.6	18/11/2012	27/01/2014
A07RP00007	C300-RP700412	78779.32	35857.36	133.9239	1.6	-2.9	-0.1	18/11/2012	27/01/2014
A07RP00005	C300-RP700413	78779.99	35860.22	134.0829	1.6	-3	0.4	18/11/2012	27/01/2014
A07RP00009	C300-RP700414	78781.27	35850.99	133.9653	1.4	-2.5	-0.2	18/11/2012	27/01/2014
A07RP00192	C300-RP700415	78762.03	35856.9	133.0543	2.9	-4.2	-0.2	18/11/2012	27/01/2014
A07RP00189	C300-RP700416	78763.68	35851.45	133.0635	3.1	-3.9	-0.1	18/11/2012	27/01/2014
A07RP00188	C300-RP700417	78763.69	35851.44	137.889	3.3	-4.1	-0.5	18/11/2012	27/01/2014
A07RP00010	C300-RP700418	78781.28	35850.96	126.073	1.5	-2.6	-0.1	18/11/2012	27/01/2014
A07RP00186	C300-RP700419	78764.63	35848.31	133.0724	2.9	-3.6	-0.2	18/11/2012	27/01/2014
A07RP00190	C300-RP700420	78762.53	35854.02	127.1854	2.5	-3.7	0.3	18/11/2012	27/01/2014
A07RP00191	C300-RP700421	78761.7	35856.74	127.1826	2.7	-3.7	1.2	18/11/2012	27/01/2014
A07RP00187	C300-RP700422	78763.4	35851.12	127.1979	2.6	-3.6	0.5	18/11/2012	27/01/2014
A07RP00184	C300-RP700423	78764.53	35847.44	131.785	3	-3.7	-0.2	18/11/2012	27/01/2014
A07RP00185	C300-RP700424	78764.26	35848.29	127.2078	2.6	-3.6	0.7	18/11/2012	27/01/2014
A07RP00181	C300-RP700425	78765.78	35843.27	128.1224	2.6	-3.8	-0.5	18/11/2012	27/01/2014
A07RP00180	C300-RP700426	78767.2	35838.6	131.7892	2.9	-4.4	-1.4	18/11/2012	27/01/2014
A07RP00179	C300-RP700427	78767.21	35838.57	128.1158	2.7	-4.2	-0.6	18/11/2012	27/01/2014
A07RP00178	C300-RP700428	78768.55	35834.15	131.7802	3.1	-5	-3.2	18/11/2012	27/01/2014
A07RP00177	C300-RP700429	78768.56	35834.1	128.2	3.2	-3.8	-3.8	18/11/2012	27/01/2014
A07RP00275	C300-RP700430	78786.9	35833.05	126.0275	3.6	-7	-3.4	18/11/2012	27/01/2014
A07RP00012	C300-RP700431	78786.76	35832.78	126.0306	3.8	-7	-3.4	18/11/2012	27/01/2014
A07RP00176	C300-RP700432	78770.81	35827.93	127.2719	2.6	-4.9	-3.9	18/11/2012	27/01/2014
A07RP00283	C300-RP700433	78795.24	35835.55	133.8884	4.8	-9.8	-6.2	18/11/2012	27/01/2014
A07RP00277	C300-RP700434	78795.44	35835.5	133.878	4.8	-9.7	-6.2	18/11/2012	27/01/2014
A07RP00282	C300-RP700435	78794.92	35835.45	126.0564	3.8	-6.9	-5	18/11/2012	27/01/2014
A07RP00175	C300-RP700436	78772.06	35822.6	127.3638	2.8	-4.9	-4.6	18/11/2012	27/01/2014
A07RP00174	C300-RP700437	78772.63	35820.1	133.2889	3.1	-6	-6.5	18/11/2012	27/01/2014
A07RP00173	C300-RP700438	78773.31	35816.88	133.2869	3.2	-5.9	-5.9	18/11/2012	27/01/2014
A07RP00172	C300-RP700439	78774.19	35815.57	127.3616	3.1	-4.5	-6.4	18/11/2012	27/01/2014
A07RP00049	C300-RP700444	78779.84	35798.53	129.3249	5	-4.8	-10.5	18/11/2012	27/01/2014
A07RP00060	C300-RP700467	78803.99	35755.06	133.6848	2.5	4.5	-6.1	18/11/2012	27/01/2014
A07RP00261	C300-RP700468	78803.33	35754.07	126.1073	2.4	2.4	-5.9	18/11/2012	27/01/2014
A07RP00259	C300-RP700469	78803.33	35754.06	134.3905	2.2	4.9	-5.8	18/11/2012	27/01/2014
A07RP00260	C300-RP700470	78804.83	35752.23	130.8605	2	3.6	-4.8	18/11/2012	27/01/2014
A07RP00258	C300-RP700471	78805.29	35750.71	134.3882	1.7	4.4	-4.1	18/11/2012	27/01/2014
A07RP00262	C300-RP700472	78805.31	35750.62	126.0727	1.7	2.1	-4.2	18/11/2012	27/01/2014
A07RP00087	C300-RP700473	78806.68	35745.93	134.4446	1.3	3.8	-2.8	18/11/2012	27/01/2014
A07RP00088	C300-RP700474	78806.69	35745.9	126.2181	1.5	1.3	-2.9	18/11/2012	27/01/2014
A07RP00089	C300-RP700475	78807.28	35743.87	129.2687	1.2	2	-2.3	18/11/2012	27/01/2014
A07RP00090	C300-RP700476	78807.75	35742.3	126.2142	1.2	1.2	-2.1	18/11/2012	27/01/2014
A07RP00091	C300-RP700477	78807.74	35742.29	134.4413	0.8	3.5	-2.2	18/11/2012	27/01/2014
A07RP00092	C300-RP700478	78807.05	35741.42	126.1905	0.5	1.4	-2	18/11/2012	27/01/2014
A07RP00093	C300-RP700479	78807.06	35741.37	134.5888	0.9	3.6	-1.8	18/11/2012	27/01/2014
A07RP00094	C300-RP700480	78809.16	35737.51	125.9923	0.8	0.7	-1.4	18/11/2012	27/01/2014
A07RP00095	C300-RP700481	78809.16	35737.51	134.4516	0.5	3.3	-1.3	18/11/2012	27/01/2014
A07RP00096	C300-RP700482	78809.18	35737.46	129.4167	0.8	1.8	-1.1	18/11/2012	27/01/2014
A07RP00097	C300-RP700483	78810.6	35732.68	134.5452	0.9	1.3	-0.4	18/11/2012	27/01/2014
A07RP00098	C300-RP700484	78810.59	35732.68	126.3728	0.9	0.5	-0.4	18/11/2012	27/01/2014
A07RP00099	C300-RP700485	78811.2	35730.6	129.1278	0.7	0.4	-0.1	18/11/2012	27/01/2014
A07RP00100	C300-RP700486	78811.64	35729.09	134.5386	0.6	1.2	-0.1	18/11/2012	27/01/2014
A07RP00101	C300-RP700487	78811.67	35729.02	126.305	0.6	0.1	0.3	18/11/2012	27/01/2014





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [mm]	First Reading Date	Last Reading Date
A07RP00102	C300-RP700488	78811.91	35724.95	127.4412	0.1	0.3	0.2	18/11/2012	27/01/2014
A07RP00103	C300-RP700489	78811.93	35724.9	132.9992	-0.1	0.5	0.3	18/11/2012	27/01/2014
A07RP00104	C300-RP700490	78812.99	35721.3	130.1029	0.4	-0.1	0.3	18/11/2012	27/01/2014
A07RP00105	C300-RP700491	78813.79	35718.59	132.9828	0.4	-0.1	0.4	18/11/2012	27/01/2014
A07RP00106	C300-RP700492	78813.83	35718.43	127.4364	0.4	-0.4	0.3	18/11/2012	27/01/2014
A07RP00107	C300-RP700493	78812.29	35714.93	136.1293	0.3	0.2	0.2	18/11/2012	27/01/2014
A07RP00108	C300-RP700494	78812.32	35714.86	127.4673	0.4	-0.3	0.1	18/11/2012	27/01/2014
A07RP29411	C701-RP29411-CR084	78948.11	35955.72	153.9	0	0	0	30/10/2012	04/09/2015
A07RP30710	C701-RP30710-CR084	78947.95	35662.6	125.871	0	0	0	30/10/2012	04/09/2015
A07RP30010	C701-RP30010-CR084	78738.2	35691.08	126.993	0	0	0	30/10/2012	04/09/2015
A07RP00074	C300-RP700164	78874.77	35722.49	129.6791	-17.7	-12.1	-1.4	07/11/2012	04/09/2015
A07RP00076	C300-RP700166	78876.77	35723.17	126.4871	-17.6	-11.9	-1.7	07/11/2012	04/09/2015
A07RP00085	C300-RP700175	78908.64	35733.21	125.5597	-17.7	-10	-0.5	30/10/2012	04/09/2015
A07RP00150	C300-RP700211	78786.93	35695.92	128.2366	-1	2.8	0	30/10/2012	04/09/2015
A07RP00152	C300-RP700213	78790.3	35696.9	131.2607	-0.4	0.2	0.8	30/10/2012	04/09/2015
A07RP00153	C300-RP700214	78792.46	35697.6	128.2301	-0.9	1	-1	07/11/2012	10/03/2013
B07RP00203	C300-RP700596	78966.53	35836.41	126.8479	-0.5	-3	-23	00/01/1900	27/01/2014
B07RP00215	C300-RP700845	78963.67	35823.54	132.467	16	7.2	-15.2	00/01/1900	02/01/2014
B07RP00480	C300-RP701173	78963.46	35791.79	123.5591	-0.6	-2.4	-17.6	00/01/1900	02/01/2014
B07RP00484	C300-RP701177	78969.13	35794.82	129.4008	-1.1	-4	-16.5	00/01/1900	02/01/2014
B07RP00485	C300-RP701178	78969.17	35795.05	123.3886	-0.4	-2.4	-16	00/01/1900	02/01/2014
B07RP20224	C701-RP20224-CR084	78868.49	35864.8	127.1884	10.5	-13.5	-6.5	31/10/2012	02/09/2015
B07RP22217	C701-RP22217-CR084	78901.75	35817.71	127.3315	-9.6	-14.9	-63.9	31/10/2012	02/09/2015
B07RP22222	C701-RP22222-CR084	78901.75	35817.71	132.0688	-8.3	-13.8	-65.4	31/10/2012	02/09/2015
B07RP22223	C701-RP22223-CR084	78902.78	35814.53	132.0615	-11.5	-1.4	-65.5	31/10/2012	02/09/2015
B07RP22218	C701-RP22218-CR084	78902.94	35814.1	127.3315	-12.7	-2.5	-67.2	31/10/2012	02/09/2015
B07RP22110	C701-RP22110-CR084	78903.37	35812.86	124.6658	-11.7	-2.2	-66.7	31/10/2012	02/09/2015
B07RP22114	C701-RP22114-CR084	78903.4	35812.84	132.3541	-10.8	-13.6	-67.7	31/10/2012	02/09/2015
B07RP22111	C701-RP22111-CR084	78905.6	35806.15	124.6597	-12.9	-11.8	-57.7	31/10/2012	02/09/2015
B07RP22115	C701-RP22115-CR084	78905.65	35806.11	132.3657	-12	-10.8	-63.3	31/10/2012	02/09/2015
B07RP00042	C300-RP700031	78916.72	35768.33	124.895	-12.7	8.4	-16.6	31/10/2012	02/09/2015
B07RP00041	C300-RP700032	78916.73	35768.32	134.53	-13.6	13.2	-17.8	31/10/2012	02/09/2015
B07RP00040	C300-RP700033	78918.38	35763.18	129.8795	-12.3	10.8	-13.4	31/10/2012	02/09/2015
B07RP00039	C300-RP700034	78918.36	35763.21	134.5301	-12.4	13.4	-13.7	31/10/2012	02/09/2015
B07RP00036	C300-RP700037	78920.72	35756	124.9144	-11.5	8.5	-7.7	31/10/2012	02/09/2015
B07RP00035	C300-RP700038	78920.8	35755.77	134.5357	-12.2	13	-9.4	31/10/2012	02/09/2015
B07RP00034	C300-RP700039	78921.93	35752.18	129.8787	-12.1	10.8	-6.9	31/10/2012	02/09/2015
B07RP00033	C300-RP700040	78923.05	35748.54	134.5401	-12.3	12.8	-5.6	31/10/2012	02/09/2015
B07RP00032	C300-RP700041	78924.06	35745.32	129.8782	-12.1	10.3	-3.7	31/10/2012	02/09/2015
B07RP00031	C300-RP700042	78908.82	35737.65	130.0051	-2.5	7.8	1.5	31/10/2012	10/07/2013
B07RP00028	C300-RP700045	78904.91	35750.72	125.9544	-6.9	9.8	-5.8	31/10/2012	02/09/2015
B07RP00025	C300-RP700048	78903.12	35756.43	125.9878	-7.1	11.4	-8.7	31/10/2012	02/09/2015
B07RP00022	C300-RP700051	78901.51	35761.78	126.0057	-6.9	12.3	-11	31/10/2012	02/09/2015
B07RP21415	C701-RP21415-CR084	78837.52	35777.51	121.7061	4.7	11.2	-26.7	31/10/2012	02/09/2015
B07RP21422	C701-RP21422-CR084	78836.54	35778.72	126.3418	4.5	14.9	-27.8	31/10/2012	02/09/2015
B07RP21419	C701-RP21419-CR084	78836.57	35778.73	123.2477	4.9	12.4	-27.2	31/10/2012	02/09/2015
B07RP22220	C701-RP22220-CR084	78896.97	35832.13	131.7702	-2.2	-14	-46.1	31/10/2012	02/09/2015
B07RP22216	C701-RP22216-CR084	78899.36	35824.92	127.3455	-6.6	-14.7	-56.1	31/10/2012	02/09/2015
B07RP00093	C300-RP700075	78980.51	35787.75	122.0484	-4.3	4.5	-16.9	30/10/2012	02/09/2015
B07RP00079	C300-RP700087	78945.91	35776.84	126.7793	4.1	15	-11.9	30/10/2012	01/09/2015
B07RP00080	C300-RP700088	78945.63	35776.76	122.3713	8.4	13.9	-8.1	30/10/2012	02/09/2015
B07RP00076	C300-RP700089	78939.97	35775.13	122.6246	4.1	10.7	-10.5	30/10/2012	01/09/2015
B07RP00078	C300-RP700090	78940.36	35775.3	122.3901	8.3	13.6	-7.5	30/10/2012	02/09/2015
B07RP00075	C300-RP700091	78939.99	35775.16	127.8099	4.2	14.9	-11.2	30/10/2012	01/09/2015
B07RP00074	C300-RP700093	78934.91	35773.61	122.6497	3.9	8.8	-8.4	30/10/2012	01/09/2015
B07RP00073	C300-RP700094	78934.95	35773.64	127.6581	4.4	13	-8.8	30/10/2012	01/09/2015
B07RP00072	C300-RP700095	78931.51	35772.51	128.089	9.9	13.6	-5.1	30/10/2012	02/09/2015
B07RP00124	C300-RP700097	78931.51	35772.51	123.7662	6.4	8.5	-7.7	30/10/2012	01/09/2015
B07RP00066	C300-RP700098	78924.43	35770.28	133.7358	5.3	10.8	-8.9	30/10/2012	01/09/2015
B07RP00067	C300-RP700099	78924.43	35770.28	129.2413	6.8	7.3	-1.4	30/10/2012	31/08/2015
B07RP00068	C300-RP700100	78924.35	35770.25	123.7205	10.5	8.7	-3.7	30/10/2012	02/09/2015
B07RP00069	C300-RP700101	78923.71	35770.75	133.6972	6.9	10.3	-8.2	30/10/2012	01/09/2015
B07RP00123	C300-RP700102	78923.7	35770.75	123.7313	10	1.2	-2.8	30/10/2012	02/09/2015
B07RP00070	C300-RP700103	78923.69	35770.76	128.0137	7	7.6	-7.8	30/10/2012	01/09/2015
B07RP21530	C701-RP21530-CR084	78925.37	35779.63	130.5224	0.4	2.4	-30.7	30/10/2012	31/08/2015
B07RP21521	C701-RP21521-CR084	78928.55	35780.77	126.154	0.3	-1.7	-34.1	30/10/2012	01/09/2015
B07RP21531	C701-RP21531-CR084	78931.84	35781.67	130.6046	2	-3.1	-28.9	30/10/2012	02/09/2015
B07RP21511	C701-RP21511-CR084	78931.8	35781.7	122.6472	1.7	-3.5	-32.8	30/10/2012	01/09/2015
B07RP21522	C701-RP21522-CR084	78936.77	35783.41	124.487	1.7	-2.7	-31.7	30/10/2012	01/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
B07RP21512	C701-RP21512-CR084	78941.77	35785.02	122.512	2	-3.1	-31.5	30/10/2012	01/09/2015
B07RP21532	C701-RP21532-CR084	78941.95	35785.07	125.6429	5.3	0.7	-28.3	30/10/2012	02/09/2015
B07RP21523	C701-RP21523-CR084	78947.54	35786.74	124.3907	1.3	0.1	-34	30/10/2012	01/09/2015
B07RP21533	C701-RP21533-CR084	78952.31	35788.25	126.0887	6.6	1.7	-29.9	30/10/2012	02/09/2015
B07RP21513	C701-RP21513-CR084	78952.33	35788.26	122.4201	6.9	0.1	-29.1	30/10/2012	02/09/2015
B07RP21524	C701-RP21524-CR084	78958.07	35790.2	124.3172	3.5	-2.1	-33.5	30/10/2012	01/09/2015
B07RP21526	C701-RP21526-CR084	78967.01	35796.67	125.3921	8.7	-2.9	-32.4	30/10/2012	02/09/2015
B07RP21517	C701-RP21517-CR084	78964.77	35798.43	122.719	8.5	-3.5	-30.8	30/10/2012	02/09/2015
B07RP21527	C701-RP21527-CR084	78964.21	35798.85	126.1491	4.9	-3	-37.5	30/10/2012	01/09/2015
B07RP21528	C701-RP21528-CR084	78958.96	35802.67	126.2223	3	-1.8	-37.4	30/10/2012	01/09/2015
B07RP21529	C701-RP21529-CR084	78953.85	35806.39	126.2336	3.6	-2.6	-36	30/10/2012	02/09/2015
B07RP21519	C701-RP21519-CR084	78953.72	35806.49	122.2544	5.1	-4.5	-35.5	30/10/2012	02/09/2015
B07RP00125	C300-RP700104	78940.14	35816.19	130.4325	-0.1	-5.2	-57.1	30/10/2012	01/09/2015
B07RP00126	C300-RP700105	78940.05	35816.25	124.1635	1.6	-7	-56.1	30/10/2012	01/09/2015
B07RP00127	C300-RP700106	78938.94	35817.04	128.1241	0.9	-6.9	-57.6	30/10/2012	01/09/2015
B07RP00081	C300-RP700107	78951.27	35778.53	123.9659	5	11.1	-11.6	30/10/2012	01/09/2015
B07RP00117	C300-RP700108	78988.94	35789.96	129.628	-6.6	10.8	-34.3	30/10/2012	01/09/2015
B07RP00118	C300-RP700109	78989.09	35789.86	123.8696	-1.3	-4.9	-23.5	30/10/2012	02/09/2015
B07RP00116	C300-RP700111	78993.66	35786.71	123.8213	-0.4	-2.5	-13.5	30/10/2012	02/09/2015
B07RP00112	C300-RP700114	79001.88	35781.03	123.7718	-0.1	-1.2	-1.3	30/10/2012	01/09/2015
B07RP00061	C300-RP700239	78914.49	35776.26	132.2875	-12.6	-7.5	-25.3	07/11/2012	01/09/2015
B07RP00062	C300-RP700240	78915.07	35776.43	124.5651	-12.2	-11.5	-24.8	07/11/2012	01/09/2015
B07RP00063	C300-RP700241	78918.47	35777.47	127.5374	-11.2	-10.3	-26.7	07/11/2012	01/09/2015
B07RP00064	C300-RP700242	78923.44	35779.03	132.3357	-12.6	-1.9	-32.7	07/11/2012	01/09/2015
B07RP00065	C300-RP700243	78923.75	35779.14	124.5319	-12.6	-4.7	-33.3	07/11/2012	01/09/2015
B07RP00119	C300-RP700246	78980.09	35796.07	123.5159	-5.2	-12.3	-42.5	07/11/2012	31/08/2015
B07RP222102	C701-RP222102-CR084	78931.66	35822.19	124.1684	-9.3	-3.2	-57.9	07/11/2012	02/09/2015
B07RP222103	C701-RP222103-CR084	78931.68	35822.19	128.1191	-8.9	-1.8	-57.3	07/11/2012	02/09/2015
B07RP222104	C701-RP222104-CR084	78944.68	35812.97	127.7609	-10.1	-0.3	-47.7	07/11/2012	02/09/2015
B07RP222105	C701-RP222105-CR084	78949.25	35809.73	124.1815	-9.7	-0.8	-44.2	07/11/2012	02/09/2015
B07RP222106	C701-RP222106-CR084	78949.28	35809.73	130.4613	-10.1	2.1	-44	07/11/2012	02/09/2015
B07RP222333	C701-RP222333-CR084	78965.75	35805.1	122.7556	-8.4	-21.2	-35.9	07/11/2012	02/09/2015
B07RP222335	C701-RP222335-CR084	78975.49	35798.21	123.1143	-5.6	-17.7	-39.6	07/11/2012	02/09/2015
B07RP00410	C300-RP700516	78982.12	35849.68	124.1173	14.3	-0.2	-36.7	10/03/2013	02/09/2015
B07RP00411	C300-RP700517	78982.23	35849.62	126.3099	9.8	-3.9	-36.7	10/03/2013	02/09/2015
B07RP00412	C300-RP700518	78985.53	35847.73	124.1203	10.2	1.9	-40.1	10/03/2013	02/09/2015
B07RP00413	C300-RP700519	78985.58	35847.69	126.3051	8.5	-5.4	-40.1	10/03/2013	02/09/2015
B07RP00414	C300-RP700520	78986.45	35847.19	126.3072	4.4	1.7	-40	10/03/2013	02/10/2014
B07RP00415	C300-RP700521	78986.43	35847.21	124.1244	11.9	1.2	-46.7	10/03/2013	02/04/2015
B07RP00416	C300-RP700522	78991.36	35844.46	124.7389	6.2	-2.8	-44.3	10/03/2013	02/09/2015
B07RP00417	C300-RP700523	78991.41	35844.42	126.1839	9.4	-8.8	-44	10/03/2013	02/09/2015
B07RP00043	C300-RP700530	78887.78	35866.68	127.9847	0.1	-9	-10.5	13/12/2012	02/09/2015
B07RP00044	C300-RP700531	78889.08	35862.55	125.6933	-1.5	-7.5	-10.4	13/12/2012	02/09/2015
B07RP00045	C300-RP700532	78889.8	35860.3	127.9856	-3	-9	-15.3	13/12/2012	02/09/2015
B07RP00046	C300-RP700533	78895.21	35856.03	127.0205	-1.8	-9.2	-20.4	13/12/2012	02/09/2015
B07RP00047	C300-RP700534	78898.52	35853.41	127.0316	-2.6	-12.2	-19.9	13/12/2012	02/09/2015
B07RP00178	C300-RP700575	78930.21	35863.95	126.2901	-2.9	-9	-2.9	29/11/2012	02/09/2015
B07RP00181	C300-RP700576	78934.86	35860.23	126.9241	-5.6	-10.5	-4.6	29/11/2012	02/09/2015
B07RP00185	C300-RP700580	78943.89	35853.45	125.807	-10.4	-14.5	-11.3	29/11/2012	02/09/2015
B07RP00207	C300-RP700599	78973.44	35831.09	128.5002	-15	-14.3	-28.4	29/11/2012	02/09/2015
B07RP00223	C300-RP700613	78899.4	35872.23	129.4205	-2	-11.5	-2.2	29/11/2012	02/09/2015
B07RP00224	C300-RP700614	78897.83	35873.42	133.6511	-1.8	-13.3	-0.9	29/11/2012	02/09/2015
B07RP00225	C300-RP700615	78900.19	35887.09	130.2634	-1.8	-7	1.7	29/11/2012	27/06/2015
B07RP00226	C300-RP700616	78904.01	35884.19	130.263	-0.2	-3.2	0.7	29/11/2012	02/09/2015
B07RP00227	C300-RP700617	78905.98	35882.69	134.4606	-0.5	-3.8	1.1	29/11/2012	02/09/2015
B07RP00229	C300-RP700619	78958.36	35827.45	125.5889	-10.7	-14.4	-8.9	29/11/2012	06/06/2014
B07RP00238	C300-RP700627	78944	35838.57	132.6018	-3.1	-4.5	-2.4	29/11/2012	03/12/2013
B07RP00271	C300-RP700652	78900.15	35871.68	126.176	-1.7	-1.1	1.3	29/11/2012	14/11/2013
B07RP00273	C300-RP700654	78899.37	35872.42	126.0438	-1.8	-9.4	-2.2	29/11/2012	02/09/2015
B07RP00274	C300-RP700655	78895.34	35875.28	136.3674	-1.8	-14	-11.3	30/11/2012	02/09/2015
B07RP00275	C300-RP700656	78895.35	35875.28	129.4511	-1.7	-10.1	-11.7	30/11/2012	02/09/2015
B07RP00276	C300-RP700657	78895.23	35875.43	125.6685	-1.1	-7.8	0.2	29/11/2012	02/09/2015
B07RP00277	C300-RP700658	78883.99	35898.67	135.3925	0.3	1.2	-0.8	29/11/2012	28/06/2015
B07RP00278	C300-RP700659	78884.03	35898.86	127.8677	1.6	1.2	-0.7	29/11/2012	27/06/2015
B07RP00279	C300-RP700660	78887.29	35896.35	134.0733	0.5	0.2	0.7	29/11/2012	27/06/2015
B07RP00280	C300-RP700661	78890.75	35893.82	135.3038	0.3	-0.7	1.9	29/11/2012	27/06/2015
B07RP00286	C300-RP700664	78897.89	35888.6	130.3648	0.6	-1.9	1.4	29/11/2012	02/09/2015
B07RP00289	C300-RP700667	78898.4	35888.46	126.0679	0.2	-2.6	-9.3	06/12/2012	02/09/2015
B07RP00291	C300-RP700669	78902.2	35885.58	126.0765	0	-2.9	0.9	29/11/2012	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
B07RP00295	C300-RP700670	78906.18	35882.38	126.5479	1.2	-1.6	1.2	29/11/2012	02/09/2015
B07RP00298	C300-RP700671	78909.91	35879.57	133.2508	-0.1	-4.3	1.7	29/11/2012	02/09/2015
B07RP00302	C300-RP700673	78913.42	35876.73	130.8918	-7	-13.3	0.5	29/11/2012	02/09/2015
B07RP00303	C300-RP700674	78913.09	35876.89	127.1567	-2.7	-7.3	-0.1	29/11/2012	02/09/2015
B07RP00304	C300-RP700675	78913.8	35876.42	134.4241	-3.6	-8.6	0.5	29/11/2012	02/09/2015
B07RP00305	C300-RP700676	78913.78	35876.38	127.0263	-2.6	-7.1	0.3	29/11/2012	02/09/2015
B07RP00306	C300-RP700677	78917.83	35873.33	134.4367	-4.2	-9.9	-0.2	29/11/2012	02/09/2015
B07RP00307	C300-RP700678	78917.81	35873.29	127.0681	-3.3	-8.2	-0.4	29/11/2012	02/09/2015
B07RP00308	C300-RP700679	78918.22	35873.04	135.0875	-3.6	-9.3	-0.5	29/11/2012	02/09/2015
B07RP00309	C300-RP700680	78918.11	35873.16	126.8314	-3.3	-8.1	-0.5	29/11/2012	02/09/2015
B07RP00310	C300-RP700681	78922.12	35870.15	126.8566	-2.3	-10.6	-2.7	29/11/2012	02/09/2015
B07RP00311	C300-RP700682	78922.53	35869.78	131.4429	-4.2	-11.2	-1.2	29/11/2012	02/09/2015
B07RP00312	C300-RP700683	78922.58	35869.77	125.9843	-3.1	-9.7	-2.8	29/11/2012	02/09/2015
B07RP00313	C300-RP700684	78926.25	35866.9	131.5704	-4.6	-12.4	-1.6	29/11/2012	02/09/2015
B07RP00403xx	C300-RP700687	78940.39	35855.07	129.3401	-7.3	-9.4	-0.4	29/11/2012	10/01/2013
B07RP22910	C701-RP22910-CR084	78975.88	35829.27	125.9245	-12.3	-10	-30.8	29/11/2012	02/09/2015
B07RP22911	C701-RP22911-CR084	78979.78	35826.34	126.7195	-13.9	-9.3	-26.3	29/11/2012	02/09/2015
B07RP22912	C701-RP22912-CR084	78977.89	35827.74	127.582	-13.4	-9.2	-28.5	29/11/2012	02/09/2015
B07RP23010	C701-RP23010-CR084	78980.59	35825.73	126.9458	-13.6	-8.9	-25.6	29/11/2012	02/09/2015
B07RP23011	C701-RP23011-CR084	78983.17	35823.74	128.9252	-12.5	-6.5	-23.7	29/11/2012	02/09/2015
B07RP23110	C701-RP23110-CR084	78986.05	35821.54	126.9489	-12.5	-6.9	-22.1	29/11/2012	02/09/2015
B07RP23111	C701-RP23111-CR084	78989.05	35819.24	128.8631	-12.9	-6.6	-21.2	29/11/2012	02/09/2015
B07RP23112	C701-RP23112-CR084	78986.38	35821.28	131.5107	-13.7	-6.1	-21.3	29/11/2012	02/09/2015
B07RP23210	C701-RP23210-CR084	78991.71	35817.19	127.1059	-12.8	-7.6	-20.8	29/11/2012	02/09/2015
B07RP23211	C701-RP23211-CR084	78994.52	35815.03	128.862	-13.8	-8.4	-28.3	29/11/2012	02/09/2015
B07RP00435	C300-RP700757	78977.9	35755.55	132.408	-0.9	9.4	-6.8	13/01/2013	02/09/2015
B07RP00436	C300-RP700758	78990.64	35759.48	128.3566	0.1	7.8	-7	13/01/2013	02/09/2015
B07RP00437	C300-RP700759	78990.63	35759.47	132.3943	-0.3	9	-7	13/01/2013	02/09/2015
B07RP00438	C300-RP700760	79002.18	35763.03	128.09	0.5	7.3	-7.1	13/01/2013	02/09/2015
B07RP00439	C300-RP700761	79002.24	35763.05	132.3949	0.4	9.3	-6.8	13/01/2013	02/09/2015
B07RP00440	C300-RP700762	79008.51	35764	132.3943	0.7	8.9	-6	13/01/2013	02/09/2015
B07RP00441	C300-RP700763	79008.52	35764.04	127.6673	1.3	6.7	-6.7	13/01/2013	02/09/2015
B07RP00175	C300-RP700768	78926.41	35866.74	133.6717	-2.6	-10	-8.8	15/02/2013	02/09/2015
B07RP00177	C300-RP700838	78930.27	35863.82	133.635	-8.1	-8.5	-13.5	01/02/2013	02/09/2015
B07RP00179	C300-RP700839	78930.61	35863.6	133.6832	-9.1	-14.2	-13.9	18/01/2013	02/09/2015
B07RP00180	C300-RP700840	78930.59	35863.63	125.9985	-3.1	-8	-14.3	14/01/2013	02/09/2015
B07RP00206	C300-RP700843	78970.85	35833.13	126.7645	-7.2	-11	-36.5	10/03/2013	17/10/2014
B07RP00263	C300-RP700851	78909.69	35864.45	126.1787	-1.9	-14.9	-14.5	10/03/2013	02/09/2015
B07RP00265	C300-RP700852	78909.1	35864.89	126.1685	-5.8	-14.1	-14.6	10/03/2013	02/09/2015
B07RP00267	C300-RP700853	78904.82	35868.15	126.1561	-3.3	-14.3	-12.4	17/03/2013	02/09/2015
B07RP00269	C300-RP700854	78904.33	35868.52	126.0808	4	-10.8	-12.4	10/03/2013	02/09/2015
B07RP00281	C300-RP700855	78890.84	35893.92	127.1344	1.4	-14.7	-6.9	09/03/2013	05/06/2015
B07RP00283	C300-RP700856	78893.56	35891.44	127.2345	-2.9	-9.6	-4.7	17/03/2013	27/06/2015
B07RP00292	C300-RP700858	78905.26	35882.92	126.1337	-2.1	-8.2	-10.1	17/03/2013	02/09/2015
B07RP00293	C300-RP700859	78906.34	35882.42	133.2272	-1.9	-10.1	-9.1	04/03/2013	02/09/2015
B07RP00294	C300-RP700860	78906.24	35882.53	129.2841	-1.8	-10.4	-9.2	04/03/2013	02/09/2015
B07RP00296	C300-RP700861	78907.93	35880.97	131.1289	-1.1	-5.6	-6.9	10/03/2013	02/09/2015
B07RP00297	C300-RP700862	78909.14	35879.93	129.4057	-1.3	-8.1	-6.5	10/03/2013	02/09/2015
B07RP00300	C300-RP700863	78909.94	35879.37	125.8734	-2.3	-10.9	-9.1	04/03/2013	02/09/2015
B07RP00301	C300-RP700864	78911.87	35877.96	127.7242	-3.3	-12.3	-8.8	04/03/2013	02/09/2015
B07RP00314	C300-RP700865	78926.18	35866.99	125.9552	-3.8	-13.4	-11	04/03/2013	02/09/2015
B07RP22214	C701-RP22214-CR084	78894.57	35839.34	127.3561	-9.5	0.3	-35.3	04/03/2013	20/07/2015
B07RP22913	C701-RP22913-CR084	78975.85	35829.27	131.7205	-7.7	-3.9	-31.8	13/01/2013	02/09/2015
B07RP00420	C300-RP700989	78995.84	35840.02	127.5909	9.1	-10.4	-44.4	10/03/2013	02/09/2015
B07RP00421	C300-RP700990	78997.05	35838.79	128.1912	6.7	-7.9	-43.2	10/03/2013	02/09/2015
B07RP00422	C300-RP700991	78996.96	35838.94	123.8359	4.1	-11.5	-43.4	10/03/2013	02/09/2015
B07RP00423	C300-RP700992	78999.29	35836.53	126.4074	7.4	-12.9	-46.3	10/03/2013	02/09/2015
B07RP00424	C300-RP700993	79001.64	35834.13	127.9594	7.1	-5.9	-46	10/03/2013	02/09/2015
B07RP00425	C300-RP700994	79001.63	35834.15	124.4604	11.1	-13.7	-38	10/03/2013	02/09/2015
B07RP00426	C300-RP700995	79004.03	35831.71	125.5068	3.4	-12	-37.9	10/03/2013	02/09/2015
B07RP00427	C300-RP700996	79006.43	35829.27	127.5075	6.9	-7.2	-34.9	10/03/2013	02/09/2015
B07RP00428	C300-RP700997	79009.5	35826.15	127.422	2.6	-8.3	-32.7	10/03/2013	02/09/2015
B07RP00430	C300-RP701018	78878.01	35903.16	134.3888	-1.2	0.3	-13.9	25/01/2013	02/09/2015
B07RP00431	C300-RP701019	78857.82	35902.09	130.3598	14.2	-6.5	-10	13/01/2013	02/09/2015
B07RP00432	C300-RP701020	79032.24	35752.68	131.3967	-0.4	-4.5	-9.3	13/01/2013	02/09/2015
B07RP00433	C300-RP701021	78960.59	35749.3	124.4881	-6.8	-1	-3.9	13/01/2013	11/06/2014
B07RP00460	C300-RP701149	78916.74	35768.32	129.871	-6.3	6.9	-20	10/03/2013	02/09/2015
B07RP00461	C300-RP701150	78923.04	35748.54	125.1455	-6.6	6	-6.6	05/03/2013	02/09/2015
B07RP00470	C300-RP701160	78921.98	35870.2	135.0738	-3.6	-14	-10.5	05/03/2013	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
B07RP00471	C300-RP701161	78926.53	35866.75	126.3009	-4.3	-13.6	-10.3	05/03/2013	02/09/2015
B07RP00476	C300-RP701166	78967.27	35835.9	125.8303	-14.2	-12.9	-54.5	10/03/2013	02/09/2015
B07RP00478	C300-RP701168	78975.01	35829.92	125.9779	-6.4	-8.3	-37.4	05/03/2013	02/09/2015
B07RP00479	C300-RP701172	78963.45	35791.79	129.4396	-2.2	-7.9	-42.9	05/03/2013	01/09/2015
B07RP00481	C300-RP701174	78966.23	35792.81	125.5382	3.6	-6.1	-39.6	05/03/2013	02/09/2015
B07RP00482	C300-RP701175	78968.59	35793.43	129.5033	-1.1	-9.1	-43.8	05/03/2013	01/09/2015
B07RP00483	C300-RP701176	78968.59	35793.45	123.5448	4.1	-6.5	-39.9	05/03/2013	02/09/2015
B07RP00486	C300-RP701231	78992.02	35775.86	124.2262	-1.1	2.2	-7.6	05/03/2013	01/09/2015
B07RP00487	C300-RP701232	78973.64	35785.6	122.0509	3.1	11.6	-22	05/03/2013	02/09/2015
B07RP00488	C300-RP701233	78905.79	35747.76	132.5342	-3.3	6.6	-8	05/03/2013	02/09/2015
B07RP00489	C300-RP701234	78906.04	35746.38	129.9119	-8.3	7.6	-8.7	05/03/2013	02/09/2015
B07RP00490	C300-RP701235	78905.93	35747.22	125.5987	0.8	0.9	-7.1	05/03/2013	02/09/2015
B07RP00491	C300-RP701236	78945.62	35776.76	127.6377	-7	11.2	-19.9	05/03/2013	01/09/2015
B07RP00494	C300-RP701272	78960.39	35619.2	127.6364	0	0	0	20/05/2013	02/09/2015
B07RP00495	C300-RP701276	78918.37	35763.16	124.9043	-6.1	4.4	-11.7	23/05/2013	02/09/2015
B07RP00496	C300-RP701277	78919.66	35759.41	134.5326	-6.2	8.5	-9.3	23/05/2013	02/09/2015
B07RP00507	C300-RP701378	78896.98	35858.87	128.8115	-1.5	-9.7	-13.6	04/07/2013	01/09/2015
B07RP00508	C300-RP701379	78899	35857.29	128.8124	-0.1	-11.3	-12.7	04/07/2013	30/08/2015
B07RP00509	C300-RP701380	78903.53	35857.04	129.82	-4.3	-11.5	-15.2	04/07/2013	01/09/2015
B07RP00510	C300-RP701381	78903.03	35857.41	131.2597	-3.6	-11.9	-14.7	04/07/2013	01/09/2015
B07RP00511	C300-RP701382	78896.11	35862.79	135.3516	0.7	-12.8	-9.1	04/07/2013	30/08/2015
B07RP00512	C300-RP701383	78898.18	35861.23	128.9135	-1.5	-8.7	-12.4	04/07/2013	28/08/2015
B07RP00513	C300-RP701384	78894.43	35864.05	128.8371	-1.5	-7.5	-10.7	04/07/2013	01/09/2015
B07RP00514	C300-RP701385	78888.67	35867.3	136.2658	1.1	-11.3	-7.4	04/07/2013	30/08/2015
B07RP00515	C300-RP701386	78888.78	35866.59	130.2516	0.9	-8.7	-7.5	04/07/2013	30/08/2015
B07RP00516	C300-RP701387	78891.71	35864.37	136.1095	-0.4	-10.9	-11.2	04/07/2013	28/08/2015
B07RP00517	C300-RP701388	78892.13	35864.06	129.8547	-1.2	-7.8	-11.3	04/07/2013	28/08/2015
B07RP00518	C300-RP701389	78897.32	35858.63	131.4136	-2.1	-10.8	-13.7	04/07/2013	01/09/2015
B07RP00519	C300-RP701390	78898.53	35857.69	131.3965	-1.7	-11.5	-14.5	04/07/2013	01/09/2015
B07RP00523	C300-RP701394	78898.33	35860.95	130.7622	-2.4	-10.1	-12.6	04/07/2013	01/09/2015
B07RP00526	C300-RP701397	78896.23	35862.68	131.7801	-1	-10.1	-11.7	04/07/2013	28/08/2015
B07RP00104	C300-RP700001	79008.7	35768.61	124.2583	-5.6	12.1	0.9	23/05/2013	02/09/2015
B07RP00103	C300-RP700002	79008.93	35768.75	131.0752	-2.9	0	0.9	23/05/2013	02/09/2015
B07RP00106	C300-RP700003	79018.78	35768.34	125.7754	-3.2	-1.8	2.9	23/05/2013	02/09/2015
B07RP22224	C701-RP22224-CR084	78930.66	35822.91	127.1878	-10.3	-10.7	-54.6	23/05/2013	02/09/2015
B07RP22229	C701-RP22229-CR084	78930.8	35822.88	133.3851	-8.3	-18.5	-59.4	23/05/2013	02/09/2015
B07RP22228	C701-RP22228-CR084	78903.12	35842.44	127.4217	-14	-12.5	-22.9	23/05/2013	02/09/2015
B07RP00105	C300-RP700004	79018.64	35768.43	130.179	-2.4	0	3.7	23/05/2013	02/09/2015
B07RP00140	C300-RP700008	78920.6	35837.25	125.0763	-0.1	-27	-33.9	23/05/2013	02/09/2015
B07RP00141	C300-RP700009	78925	35834.12	124.9469	-2.9	-28.3	-40.6	23/05/2013	02/09/2015
B07RP00142	C300-RP700012	78929.32	35831.19	124.8578	-2.9	-26.5	-45.8	23/05/2013	02/09/2015
B07RP00143	C300-RP700013	78930.14	35830.67	124.8888	-3.4	-25.8	-46	23/05/2013	02/09/2015
B07RP00145	C300-RP700020	78939.55	35823.79	124.7437	-7.6	-27	-51.1	23/05/2013	02/09/2015
B07RP20230	C701-RP20230-CR084	78871.36	35854.74	140.9872	12.2	-9.7	-9.5	23/05/2013	02/09/2015
B07RP20223	C701-RP20223-CR084	78871.42	35854.84	127.0424	8	-8.6	-5.8	23/05/2013	02/09/2015
B07RP20227	C701-RP20227-CR084	78870.27	35858.4	134.2446	8.8	-8	-4	23/05/2013	02/09/2015
B07RP20231	C701-RP20231-CR084	78868.24	35864.85	140.9839	12.1	-9.6	-7.5	23/05/2013	02/09/2015
B07RP00056	C300-RP700021	78911.17	35783.76	132.0665	-9.6	1.3	-52.3	23/05/2013	02/09/2015
B07RP00057	C300-RP700022	78911.23	35783.81	124.3892	-8.6	-0.9	-50.4	23/05/2013	02/09/2015
B07RP00058	C300-RP700023	78911.95	35781.38	127.8859	-10.6	-0.6	-44.5	23/05/2013	02/09/2015
B07RP00059	C300-RP700024	78913.45	35776.49	132.1185	-9.2	0.7	-36.7	23/05/2013	02/09/2015
B07RP00060	C300-RP700025	78913.49	35776.47	124.3931	-10.5	-1.5	-31.6	23/05/2013	02/09/2015
B07RP00051	C300-RP700026	78907.71	35794.86	132.0487	-7	-2.9	-57.9	23/05/2013	02/09/2015
B07RP00052	C300-RP700027	78907.71	35794.96	124.8934	-8.1	-5.1	-54.2	23/05/2013	02/09/2015
B07RP00053	C300-RP700028	78909.38	35789.66	127.9238	-7.1	-2.2	-54.6	23/05/2013	02/09/2015
B07RP00054	C300-RP700029	78910.83	35784.91	132.0689	-8.1	1.2	-53.3	23/05/2013	02/09/2015
B07RP00055	C300-RP700030	78911	35784.52	124.9286	-8.1	-1.8	-50.8	23/05/2013	02/09/2015
B07RP20225	C701-RP20225-CR084	78874.54	35844.31	134.233	10.7	-9.2	-10.9	23/05/2013	02/09/2015
B07RP20222	C701-RP20222-CR084	78873.51	35847.75	126.7232	10.1	-8.7	-9.9	23/05/2013	02/09/2015
B07RP20229	C701-RP20229-CR084	78873.53	35847.77	144.063	12.8	-9.8	-11.2	23/05/2013	02/09/2015
B07RP20226	C701-RP20226-CR084	78872.4	35851.51	134.2393	10.4	-9.3	-9.5	23/05/2013	02/09/2015
B07RP22113	C701-RP22113-CR084	78907.2	35801.42	127.803	-6.2	-9.7	-59.8	23/05/2013	02/09/2015
B07RP22112	C701-RP22112-CR084	78908.63	35797.06	124.6717	-6.4	-8.9	-55.5	23/05/2013	02/09/2015
B07RP00038	C300-RP700035	78919.66	35759.4	124.9136	-4.3	5.8	-8.9	23/05/2013	02/09/2015
B07RP00030	C300-RP700043	78907.28	35742.69	125.9855	-1.1	3.7	0.8	23/05/2013	02/09/2015
B07RP00029	C300-RP700044	78907.31	35742.69	133.7917	3.6	8.1	-1	23/05/2013	02/09/2015
B07RP00027	C300-RP700046	78904.79	35750.76	133.8029	-1.9	6.8	-4.2	23/05/2013	02/09/2015
B07RP00026	C300-RP700047	78904.06	35753.34	130.2229	-1.3	7.1	-4.3	23/05/2013	02/09/2015
B07RP00024	C300-RP700049	78903.01	35756.43	133.7749	-1.3	7.2	-5.3	23/05/2013	02/09/2015





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
B07RP00023	C300-RP700050	78902.23	35759.08	130.1772	-0.5	7.6	-7.8	23/05/2013	02/09/2015
B07RP00021	C300-RP700052	78901.53	35761.77	133.9899	-2.9	11.8	-10.1	23/05/2013	02/09/2015
B07RP00020	C300-RP700053	78899.97	35767.12	125.9783	-8.9	10.4	-16.1	23/05/2013	02/09/2015
B07RP00018	C300-RP700055	78899.92	35767.07	133.8131	7.6	17.3	-16.5	23/05/2013	02/09/2015
B07RP00017	C300-RP700056	78899.57	35767.48	124.8522	-9.2	10.2	-16.5	23/05/2013	02/09/2015
B07RP00016	C300-RP700057	78899.47	35767.77	133.8869	-13.2	32.3	-18.6	23/05/2013	02/09/2015
B07RP00015	C300-RP700058	78898.85	35769.91	128.0328	-12.2	21.8	-21.2	23/05/2013	02/09/2015
B07RP00014	C300-RP700059	78898.11	35772.42	124.8126	-6.5	17.1	-27.1	23/05/2013	02/09/2015
B07RP00013	C300-RP700060	78898.15	35772.3	133.9768	-8.7	33.3	-26.5	23/05/2013	02/09/2015
B07RP00012	C300-RP700061	78897.18	35775.58	124.79	-7.9	18	-36.2	23/05/2013	02/09/2015
B07RP00011	C300-RP700062	78897.17	35775.64	133.9478	-9.4	34.9	-35.9	23/05/2013	02/09/2015
B07RP20713	C701-RP20713-CR084	78896.86	35776.75	132.2491	-13.2	31.8	-38.8	23/05/2013	02/09/2015
B07RP20710	C701-RP20710-CR084	78896.91	35776.51	124.8522	-12.1	18.1	-35.4	23/05/2013	02/09/2015
B07RP20712	C701-RP20712-CR084	78896.24	35778.85	128.3681	-7	24.7	-42.9	23/05/2013	02/09/2015
B07RP20714	C701-RP20714-CR084	78895.7	35780.75	132.1922	-14.7	31.7	-48.3	23/05/2013	02/09/2015
B07RP20711	C701-RP20711-CR084	78895.66	35780.83	125.1368	-12.4	18.7	-47.4	23/05/2013	02/09/2015
B07RP20813	C701-RP20813-CR084	78895.27	35782.26	132.2531	-13.4	32.1	-54.3	23/05/2013	02/09/2015
B07RP20810	C701-RP20810-CR084	78895.31	35782.01	124.969	-12.6	18.4	-49.5	23/05/2013	02/09/2015
B07RP20812	C701-RP20812-CR084	78894.7	35784.19	128.3101	-13.1	24.8	-56.4	23/05/2013	02/09/2015
B07RP20811	C701-RP20811-CR084	78893.97	35786.67	125.258	-12	18.3	-58.3	23/05/2013	02/09/2015
B07RP20910	C701-RP20910-CR084	78893.75	35787.46	125.0897	-11.9	18.1	-59.6	23/05/2013	02/09/2015
B07RP21418	C701-RP21418-CR084	78837.51	35777.54	126.6614	4.3	9.8	-27.1	23/05/2013	02/09/2015
B07RP20228	C701-RP20228-CR084	78875.35	35841.58	144.0648	12.7	-10.1	-12.6	23/05/2013	02/09/2015
B07RP00146	C300-RP700123	78940.48	35823.16	125.0493	-7.5	-26.4	-50.9	23/05/2013	02/09/2015
B07RP00165	C300-RP700124	78942.75	35827.61	132.4149	-11.9	-40.1	-53.1	23/05/2013	02/09/2015
B07RP00164	C300-RP700125	78943.3	35827.23	130.7491	-13.8	-33.5	-50.8	23/05/2013	02/09/2015
B07RP00163	C300-RP700126	78947.31	35824.16	130.7306	-17.2	-32	-49.5	23/05/2013	02/09/2015
B07RP00162	C300-RP700127	78948.26	35823.42	130.6816	-18.3	-31.6	-49.2	23/05/2013	02/09/2015
B07RP00147	C300-RP700128	78944.67	35820.33	125.0241	-9.4	-26.5	-48.2	23/05/2013	02/09/2015
B07RP00148	C300-RP700129	78945.43	35819.79	124.469	-10.2	-25.2	-48.5	23/05/2013	02/09/2015
B07RP00161	C300-RP700130	78951.47	35821.08	130.7202	-18.1	-32.6	-43.8	23/05/2013	02/09/2015
B07RP00149	C300-RP700131	78948.86	35817.48	124.474	-10.3	-24.8	-44.6	23/05/2013	02/09/2015
B07RP00160	C300-RP700132	78956.01	35817.45	128.3258	-15.7	-26.7	-34.9	23/05/2013	02/09/2015
B07RP00144	C300-RP700150	78935.82	35826.53	124.7342	-6.8	-26.9	-48.1	23/05/2013	02/09/2015
B07RP00166	C300-RP700151	78938.29	35831.18	132.2667	-9.4	-38.2	-49.4	23/05/2013	02/09/2015
B07RP00107	C300-RP700244	79012.34	35772.93	130.196	-6.6	1.9	0	23/05/2013	02/09/2015
B07RP00129	C300-RP700249	78984.9	35792.75	123.5551	-4	-8.4	-34.5	23/05/2013	02/09/2015
B07RP222108	C701-RP222108-CR084	78915.03	35841.39	126.6835	1.9	-27.2	-30.5	23/05/2013	02/09/2015
B07RP222109	C701-RP222109-CR084	78915.53	35841.02	124.9742	1.7	-25.1	-31.2	23/05/2013	02/09/2015
B07RP222277	C701-RP222277-CR084	78937.51	35831.78	132.2436	-19.7	-31.4	-47.7	23/05/2013	02/09/2015
B07RP222278	C701-RP222278-CR084	78931.71	35832.55	131.8727	-13.9	-32.7	-47.1	23/05/2013	02/09/2015
B07RP222279	C701-RP222279-CR084	78929.18	35834.4	132.299	-18	-34.7	-43.9	23/05/2013	02/09/2015
B07RP222321	C701-RP222321-CR084	78923.73	35842.47	131.812	-14.5	-34.2	-30.7	23/05/2013	02/09/2015
B07RP222322	C701-RP222322-CR084	78921.28	35844.34	131.0853	-16.7	-31.6	-26.8	23/05/2013	02/09/2015
B07RP222323	C701-RP222323-CR084	78916.56	35847.58	132.0403	-12	-32.2	-22.9	23/05/2013	02/09/2015
B07RP222324	C701-RP222324-CR084	78914.12	35849.65	131.9525	-11.4	-30.5	-19.6	23/05/2013	02/09/2015
B07RP222336	C701-RP222336-CR084	78976.92	35800.83	131.0694	-20.5	-14.2	-36.2	23/05/2013	02/09/2015
B07RP222337	C701-RP222337-CR084	78973.52	35803.2	130.9542	-8.7	-29.1	-33.9	23/05/2013	02/09/2015
B07RP222338	C701-RP222338-CR084	78959.77	35810.37	130.3452	-28.8	-21.7	-36	23/05/2013	02/09/2015
B07RP222339	C701-RP222339-CR084	78956.79	35812.63	130.2358	-26.7	-17.2	-36.8	23/05/2013	02/09/2015
B07RP00406	C300-RP700399	79194.31	35853.83	130.8502	-5.3	3.7	-16.7	23/05/2013	02/09/2015
B07RP00048	C300-RP700535	78900.05	35852.29	126.2492	6.6	-26.1	-17.5	23/05/2013	02/09/2015
B07RP00049	C300-RP700536	78904.62	35848.82	129.9782	4.4	-29.9	-29.1	23/05/2013	02/09/2015
B07RP00050	C300-RP700537	78906.97	35847.06	125.304	3.4	-21.6	-29.9	23/05/2013	02/09/2015
B07RP00182	C300-RP700577	78940.41	35855.04	129.3258	-7.9	-7.6	-15.9	23/05/2013	02/09/2015
B07RP00184	C300-RP700579	78943.73	35853.5	133.5316	-11.6	-26.4	-10.6	23/05/2013	02/09/2015
B07RP00186	C300-RP700581	78947.79	35850.45	133.5504	-14.1	-30.7	-16.6	23/05/2013	02/09/2015
B07RP00187	C300-RP700582	78947.93	35850.45	125.6684	-13.5	-20.9	-17.8	23/05/2013	02/09/2015
B07RP00188	C300-RP700583	78948.36	35850.05	132.9902	-14.5	-30	-17.6	23/05/2013	02/09/2015
B07RP00189	C300-RP700584	78948.3	35850.19	126.0155	-13.9	-21.5	-18	23/05/2013	02/09/2015
B07RP00190	C300-RP700585	78953.16	35846.43	132.9769	-12	-32	-24.2	23/05/2013	02/09/2015
B07RP00191	C300-RP700586	78953.14	35846.52	126.0114	-14.4	-22.2	-25.2	23/05/2013	02/09/2015
B07RP00192	C300-RP700587	78953.53	35846.14	130.1541	-12.4	-27.2	-23.8	23/05/2013	02/09/2015
B07RP00193	C300-RP700588	78953.52	35846.2	125.3372	-14.1	-21.7	-25.6	23/05/2013	02/09/2015
B07RP00200	C300-RP700593	78962.54	35839.4	134.6019	-16.7	-27.4	-39.8	23/05/2013	02/09/2015
B07RP00201	C300-RP700594	78962.33	35839.6	126.8085	-10.2	-21.6	-40.4	23/05/2013	02/09/2015
B07RP00202	C300-RP700595	78966.55	35836.33	134.6119	-14.4	-24.1	-38.9	23/05/2013	02/09/2015
B07RP00204	C300-RP700597	78967.19	35835.9	131.6767	-14.9	-21.1	-39	23/05/2013	02/09/2015
B07RP00205	C300-RP700598	78970.97	35833.01	131.8272	-11.5	-15.1	-31.3	23/05/2013	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
B07RP00208	C300-RP700600	78975.05	35829.86	131.7253	-8.1	-11.3	-25.8	23/05/2013	02/09/2015
B07RP00240	C300-RP700629	78943.41	35839	134.3543	-11.7	-36.9	-41.7	23/05/2013	02/09/2015
B07RP22914	C701-RP22914-CR084	78979.77	35826.34	131.4358	-6.7	-7.7	-26.6	23/05/2013	02/09/2015
B07RP00322	C300-RP700767	78975.51	35798.21	123.1105	-2.9	-19.4	-49.5	23/05/2013	02/09/2015
B07RP00197	C300-RP700841	78957.85	35842.91	130.6457	-13.7	-28.6	-45.6	23/05/2013	02/09/2015
B07RP20911	C701-RP20911-CR084	78893.47	35789.6	128.3547	-6.3	0.1	-51.9	23/05/2013	02/09/2015
B07RP00462	C300-RP701152	78982.96	35808.65	132.643	-13.9	-16.4	-40.8	23/05/2013	02/09/2015
B07RP00463	C300-RP701153	78979.17	35811.49	132.5908	-19.4	-22.8	-36.7	23/05/2013	02/09/2015
B07RP00472	C300-RP701162	78934.52	35860.58	133.6614	-6.2	-19.5	-13.1	23/05/2013	02/09/2015
B07RP00474	C300-RP701164	78943.38	35853.63	125.4919	-9.3	-18.6	-21.4	23/05/2013	02/09/2015
B07RP00475	C300-RP701165	78964.13	35838.21	130.8615	-14.1	-22.7	-50.6	23/05/2013	02/09/2015
B07RP00477	C300-RP701167	78969.07	35834.43	128.4773	-13.6	-17.1	-50.5	23/05/2013	02/09/2015
B07RP00128	C300-RP700248	78984.68	35792.89	129.576	-2.6	-8.3	-44	23/05/2013	27.10.2015
B07RP222107	C701-RP222107-CR084	78910.26	35844.72	126.707	2.7	-25.4	-33.5	23/05/2013	27.10.2016
B07RP222331	C701-RP222331-CR084	78959.82	35810.32	124.3479	-11.9	-21.5	-43.1	23/05/2013	27.10.2018
B07RP222332	C701-RP222332-CR084	78960.68	35808.93	122.8068	-10.6	-21.2	-36.8	23/05/2013	27.10.2019
B07RP00183	C300-RP700578	78943.33	35853.62	135.9454	-9.4	-27.2	-23.7	23/05/2013	27.10.2022
B07RP00194	C300-RP700589	78957.49	35843.21	130.2538	-13.4	-27.8	-48.8	23/05/2013	27.10.2023
B07RP00196	C300-RP700591	78957.82	35842.96	125.3483	-10.8	-22.5	-49.3	23/05/2013	27.10.2025
B07RP00198	C300-RP700592	78961.91	35839.92	130.6554	-12.4	-27.2	-55.7	23/05/2013	27.10.2026
B07RP00209	C300-RP700601	78974.13	35815.34	132.1922	-20.4	-23.9	-39.6	23/05/2013	27.10.2027
B07RP00210	C300-RP700602	78974.11	35815.39	126.2255	-15.4	-17.5	-39.9	23/05/2013	27.10.2028
B07RP00211	C300-RP700603	78973.59	35815.8	125.8905	-15.1	-17.2	-40.3	23/05/2013	27.10.2029
B07RP00212	C300-RP700604	78968.41	35819.87	132.5074	-19.2	-23.7	-40.8	23/05/2013	27.10.2030
B07RP00214	C300-RP700605	78963.88	35823.26	128.148	-15.5	-20.8	-43.8	23/05/2013	27.10.2031
B07RP00216	C300-RP700606	78963.48	35823.58	125.4684	-12.3	-18.2	-43.8	23/05/2013	27.10.2032
B07RP00217	C300-RP700607	78958.9	35827.09	132.6062	-20	-26.4	-51.5	23/05/2013	27.10.2033
B07RP00218	C300-RP700608	78958.91	35827.03	125.5104	-13	-20.6	-52.3	23/05/2013	27.10.2034
B07RP00219	C300-RP700609	78939.12	35856.88	135.3654	-7.8	-20.3	-17.5	23/05/2013	27.10.2035
B07RP00220	C300-RP700610	78939.03	35856.84	127.2267	-6.7	-14.6	-17.9	23/05/2013	27.10.2036
B07RP00222	C300-RP700612	78922.39	35854.9	129.4498	-7.3	-26.3	-29.6	23/05/2013	27.10.2038
B07RP00228	C300-RP700618	78958.37	35827.44	132.582	-20.2	-27.3	-52	23/05/2013	27.10.2039
B07RP00230	C300-RP700620	78953.94	35830.81	132.5564	-20.4	-28.3	-57.6	23/05/2013	27.10.2040
B07RP00231	C300-RP700621	78953.93	35830.82	125.5145	-13.3	-22.3	-58.5	23/05/2013	27.10.2041
B07RP00232	C300-RP700622	78953.48	35831.17	132.5506	-20.5	-28.4	-58.1	23/05/2013	27.10.2042
B07RP00233	C300-RP700623	78953.51	35831.15	125.489	-13.5	-22	-58.7	23/05/2013	27.10.2043
B07RP00234	C300-RP700624	78948.89	35834.76	132.5547	-18.3	-28.7	-62.1	23/05/2013	27.10.2044
B07RP00235	C300-RP700625	78948.94	35834.71	125.4816	-12.5	-23.3	-62.8	23/05/2013	27.10.2045
B07RP00236	C300-RP700626	78948.43	35835.15	132.5843	-16.9	-27.4	-62.3	23/05/2013	27.10.2046
B07RP00239	C300-RP700628	78943.98	35838.54	125.5625	-11.2	-23.5	-58.5	23/05/2013	27.10.2047
B07RP00241	C300-RP700630	78943.58	35839.13	125.4871	-10.9	-23.6	-58.8	23/05/2013	27.10.2048
B07RP00242	C300-RP700631	78939.57	35842.18	125.5795	-10.2	-22.7	-54.4	23/05/2013	27.10.2049
B07RP00243	C300-RP700632	78938.36	35842.79	126.4597	-11.3	-24.7	-54.5	23/05/2013	27.10.2050
B07RP00244	C300-RP700633	78934.31	35845.95	132.6109	-10.7	-33.9	-45	23/05/2013	27.10.2051
B07RP00245	C300-RP700634	78934.22	35845.9	126.0269	-11.7	-24.6	-45.7	23/05/2013	27.10.2052
B07RP00246	C300-RP700635	78933.82	35846.28	132.6111	-10.9	-34.1	-44.2	23/05/2013	27.10.2053
B07RP00247	C300-RP700636	78933.78	35846.24	126.0439	-9.7	-24.7	-45.1	23/05/2013	27.10.2054
B07RP00248	C300-RP700637	78929.71	35849.41	132.5846	-10.5	-34.4	-37.5	23/05/2013	27.10.2055
B07RP00249	C300-RP700638	78929.57	35849.44	126.051	-10.2	-24.3	-38.2	23/05/2013	27.10.2056
B07RP00250	C300-RP700639	78929.04	35849.92	132.5811	-9.7	-34.5	-41	23/05/2013	27.10.2057
B07RP00251	C300-RP700640	78928.97	35849.9	126.059	-9.1	-25.1	-37.3	23/05/2013	27.10.2058
B07RP00252	C300-RP700641	78924.75	35853.14	132.5065	-8.3	-31.3	-32.7	23/05/2013	27.10.2059
B07RP00255	C300-RP700642	78919.72	35856.9	132.6415	-5.7	-28.7	-26.7	23/05/2013	27.10.2060
B07RP00256	C300-RP700643	78919.59	35856.99	126.0266	-5.4	-21.4	-26.9	23/05/2013	27.10.2061
B07RP00257	C300-RP700644	78919.11	35857.36	132.6574	-6	-28.7	-26.1	23/05/2013	27.10.2062
B07RP00258	C300-RP700645	78919.28	35857.22	126.0277	-5.3	-21.2	-26.7	23/05/2013	27.10.2063
B07RP00260	C300-RP700647	78913.96	35861.22	132.8144	-4.7	-27.3	-18.3	23/05/2013	27.10.2065
B07RP00264	C300-RP700648	78909.09	35864.94	132.843	-2.1	-22.9	-14.3	23/05/2013	27.10.2066
B07RP00268	C300-RP700650	78904.3	35868.62	136.2393	-0.3	-21.7	-11.4	23/05/2013	27.10.2068
B07RP00270	C300-RP700651	78900.17	35871.68	136.2373	0.5	-20.3	-10.7	23/05/2013	27.10.2069
B07RP00272	C300-RP700653	78899.47	35872.35	136.3174	0	-20	-10.4	23/05/2013	27.10.2070
B07RP00315	C300-RP700685	78938.98	35857.18	134.5108	-7.5	-19.8	-16	23/05/2013	27.10.2076
B07RP00316	C300-RP700686	78938.89	35856.98	126.9427	-6.7	-14.4	-17.6	23/05/2013	27.10.2077
B07RP23012	C701-RP23012-CR084	78980.56	35825.73	131.5914	-7.3	-8.8	-37.9	23/05/2013	27.10.2078
B07RP00199	C300-RP700842	78961.86	35839.98	125.5118	-7.8	-21.6	-52.8	23/05/2013	27.10.2080
B07RP00237	C300-RP700846	78948.54	35835.03	125.47	-12.6	-23.1	-62.2	23/05/2013	27.10.2081
B07RP00253	C300-RP700847	78924.74	35853.1	125.9902	-7.5	-23.3	-29.6	23/05/2013	27.10.2082
B07RP00261	C300-RP700849	78913.85	35861.28	126.2715	-2.2	-15.6	-16.8	23/05/2013	27.10.2083
B07RP00262	C300-RP700850	78909.69	35864.48	132.8494	-0.5	-22.6	-11	23/05/2013	27.10.2084



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
B07RP00465	C300-RP701155	78939.05	35842.29	134.3595	-12.1	-35.1	-54	23/05/2013	27.10.2086
B07RP00466	C300-RP701156	78938.66	35842.6	132.5895	-11.9	-32.1	-53.8	23/05/2013	27.10.2087
B07RP00467	C300-RP701157	78911.08	35863.41	128.9338	5.9	-34.2	-17	23/05/2013	27.10.2088
B07RP00468	C300-RP701158	78907.59	35866.05	128.9379	5.3	-14.4	-11.7	23/05/2013	27.10.2089
B07RP00469	C300-RP701159	78902.08	35870.25	131.5611	0.4	-17.5	-10.8	23/05/2013	27.10.2090
B07RP00493	C300-RP701238	78914.36	35860.91	126.0092	-4.1	-20.1	-19.3	23/05/2013	27.10.2092
B07RP00497	C300-RP701282	78969.15	35819.34	132.5175	-20.2	-14.8	-37.1	23/05/2013	27.10.2093
B07RP22231	C701-RP22231-CR084	78918.17	35831.78	132.2901	-2.7	-3.1	-16.9	30/10/2012	03/09/2015
B07RP22226	C701-RP22226-CR084	78918.17	35831.78	127.2442	-1.8	-2.7	-16.6	30/10/2012	03/09/2015
B07RP22232	C701-RP22232-CR084	78910.27	35837.39	132.0478	-2.5	-3.2	-20.8	30/10/2012	03/09/2015
B07RP22233	C701-RP22233-CR084	78903.13	35842.45	132.292	-2.7	-4	-23.3	30/10/2012	03/09/2015
B07RP22225	C701-RP22225-CR084	78925.92	35826.29	127.2168	-2.3	-3.2	-15.8	30/10/2012	03/09/2015
B07RP22230	C701-RP22230-CR084	78925.92	35826.27	132.2627	-3	-3.1	-15.8	30/10/2012	03/09/2015
B07RP00097	C300-RP700071	78993.67	35776.34	128.0517	-0.5	-0.1	-5	30/10/2012	03/09/2015
B07RP00096	C300-RP700072	78992	35775.86	131.176	-0.4	0.1	-5.1	30/10/2012	03/09/2015
B07RP00095	C300-RP700073	78985.45	35784.54	125.1274	-1.3	2.2	-9.1	30/10/2012	03/09/2015
B07RP00094	C300-RP700074	78985.45	35784.53	122.0528	-0.9	1	-8.9	30/10/2012	03/09/2015
B07RP00092	C300-RP700076	78980.41	35787.74	124.9632	-0.7	2.4	-8.9	30/10/2012	03/09/2015
B07RP00090	C300-RP700078	78976.83	35786.61	125.0401	-0.9	2.7	-10.2	30/10/2012	03/09/2015
B07RP00089	C300-RP700079	78973.67	35785.62	124.9701	-0.8	3	-10.3	30/10/2012	03/09/2015
B07RP00087	C300-RP700081	78968.65	35784.04	124.9685	-0.8	3.5	-11.1	30/10/2012	03/09/2015
B07RP00088	C300-RP700082	78968.37	35783.95	125.0254	-0.9	3.5	-11.2	30/10/2012	03/09/2015
B07RP00085	C300-RP700083	78963.13	35782.32	125.022	-1.3	3.6	-11.5	30/10/2012	03/09/2015
B07RP00084	C300-RP700084	78962.41	35782.09	125.099	-1.1	3.7	-11.4	30/10/2012	03/09/2015
B07RP00083	C300-RP700085	78957.48	35780.53	125.0234	-0.7	2.7	-11.1	30/10/2012	03/09/2015
B07RP00082	C300-RP700086	78956.99	35780.37	126.7849	-0.7	2.8	-11.3	30/10/2012	03/09/2015
B07RP00077	C300-RP700092	78940.34	35775.31	127.6443	-0.6	3.2	-11.9	30/10/2012	03/09/2015
B07RP00071	C300-RP700096	78931.51	35772.52	133.7549	-0.8	3.4	-11	30/10/2012	03/09/2015
B07RP21537	C701-RP21537-CR084	78964.59	35798.57	129.6772	-0.1	-3.6	-16	30/10/2012	03/09/2015
B07RP21518	C701-RP21518-CR084	78958.87	35802.72	122.1684	0.1	-2.9	-14.2	30/10/2012	03/09/2015
B07RP00115	C300-RP700110	78993.34	35786.91	129.5424	3	3.7	-11.1	30/10/2012	03/09/2015
B07RP00113	C300-RP700112	78997.59	35784	129.5578	2.2	3.8	-7.7	30/10/2012	03/09/2015
B07RP00111	C300-RP700115	79001.96	35780.97	129.5801	1.5	3.1	-5	30/10/2012	03/09/2015
B07RP00110	C300-RP700116	79007.61	35776.3	125.7804	0.4	0.7	-3.7	30/10/2012	03/09/2015
B07RP00109	C300-RP700117	79007.62	35776.29	130.274	0.7	1.9	-3.8	30/10/2012	03/09/2015
B07RP00102	C300-RP700119	79001.36	35773.38	124.2494	-0.5	-0.6	-5.3	30/10/2012	03/09/2015
B07RP00100	C300-RP700120	78998.46	35775.4	128.0439	-0.3	-0.3	-5.2	30/10/2012	03/09/2015
B07RP00098	C300-RP700121	78995.3	35776.93	131.1965	-0.4	-0.1	-5.1	30/10/2012	03/09/2015
B07RP00099	C300-RP700122	78995.28	35776.92	124.2367	-0.4	-0.2	-5	30/10/2012	03/09/2015
B07RP00120	C300-RP700247	78980.22	35795.97	129.6086	-0.7	-4.2	-15.4	30/10/2012	03/09/2015
B07RP00121	C300-RP700255	78976.9	35798.24	130.0594	-1.7	-5.4	-17.6	30/10/2012	03/09/2015
B07RP00122	C300-RP700256	78976.93	35798.24	122.9537	-0.4	-3.8	-17.3	30/10/2012	03/09/2015
B07RP21510	C701-RP21510-CR084	78925.35	35779.65	122.4276	-16.7	-5.4	-30.4	30/10/2012	03/09/2015
B07RP22227	C701-RP22227-CR084	78909.96	35837.61	127.8666	-13.4	-4.2	-32.3	30/10/2012	03/09/2015
B07RP00086	C300-RP700080	78968.68	35784.03	122.053	2	15.7	-14.1	30/10/2012	03/09/2015
B07RP00101	C300-RP700118	79001.47	35773.29	131.0712	-8.3	15.9	-0.2	30/10/2012	03/09/2015
B07RP222100	C701-RP222100-CR084	78930.66	35822.92	127.2499	0.3	0.4	4.2	30/10/2012	03/09/2015
B07RP222101	C701-RP222101-CR084	78930.81	35822.89	133.4469	0.1	0.4	4.1	30/10/2012	03/09/2015
C07RP00003	C300-RP700258	79144.74	35806.67	133.7634	-9.9	12	-39.2	07/11/2012	02/09/2015
C07RP00004	C300-RP700259	79150.11	35808.36	129.6393	-8.5	7.9	-38.4	07/11/2012	02/09/2015
C07RP00006	C300-RP700261	79155.48	35809.95	133.7544	-10.5	12.7	-38.9	07/11/2012	02/09/2015
C07RP00019	C300-RP700262	79088.96	35908.03	130.071	7.8	-14.2	-11.1	07/11/2012	02/09/2015
C07RP00050	C300-RP700270	79152.42	35725.54	133.5728	0	0	0	12/11/2012	10/03/2013
C07RP00100	C300-RP700272	79103.04	35801.4	134.6359	-12.3	1.6	-31.2	12/11/2012	02/09/2015
C07RP00101	C300-RP700273	79103.05	35801.38	130.3494	-12.3	-2.9	-31.6	12/11/2012	02/09/2015
C07RP00102	C300-RP700274	79103.13	35801.28	126.1668	-11.7	-3.3	-33.7	07/11/2012	02/09/2015
C07RP00103	C300-RP700275	79102.51	35802.05	135.217	-12.9	2.1	-31.8	12/11/2012	02/09/2015
C07RP00104	C300-RP700276	79102.76	35802.03	125.5616	-12.6	-4.2	-33.2	07/11/2012	02/09/2015
C07RP00105	C300-RP700277	79099.31	35806.96	135.3794	-8.6	5	-41.6	12/11/2012	02/09/2015
C07RP00106	C300-RP700278	79099.54	35806.96	125.5498	-11.7	-3.5	-45	07/11/2012	02/09/2015
C07RP00107	C300-RP700279	79099.03	35807.38	135.7559	-7.5	6	-43.9	12/11/2012	02/09/2015
C07RP00108	C300-RP700280	79076.81	35841.33	137.3932	5.3	0.4	-56.2	12/11/2012	02/09/2015
C07RP00110	C300-RP700281	79075.78	35842.99	132.8168	1.5	-0.3	-55.8	12/11/2012	02/09/2015
C07RP00111	C300-RP700282	79074.96	35844.32	137.3704	5.8	-0.2	-54.7	13/11/2012	02/09/2015
C07RP00112	C300-RP700283	79074.21	35845.6	128.25	-5.4	1.2	-56.3	07/11/2012	02/09/2015
C07RP00113	C300-RP700284	79072.36	35848.44	136.3933	-5.9	-7	-13.3	07/11/2012	15/07/2013
C07RP00114	C300-RP700285	79072.43	35848.27	128.2948	-2.3	-5.8	-3.5	07/11/2012	30/05/2013
C07RP00115	C300-RP700286	79072.05	35848.86	136.371	6.5	1.2	-55.9	07/11/2012	02/09/2015
C07RP00116	C300-RP700287	79071.72	35849.33	128.1722	-0.6	0.1	-56.1	07/11/2012	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP00117	C300-RP700288	79069.96	35852.03	131.7994	1.7	-0.1	-53.3	07/11/2012	02/09/2015
C07RP00118	C300-RP700289	79068.79	35853.81	136.3883	4.8	-2.8	-51.7	07/11/2012	02/09/2015
C07RP00119	C300-RP700290	79069.03	35853.41	128.1002	-1.4	-0.8	-52.1	07/11/2012	02/09/2015
C07RP00120	C300-RP700291	79068.57	35854.3	141.0134	9	-5.6	-51	07/11/2012	02/09/2015
C07RP00121	C300-RP700292	79068.39	35854.41	132.5771	0.6	-3.9	-49.4	12/11/2012	02/09/2015
C07RP00122	C300-RP700293	79068.78	35854.08	127.5053	-2.3	-1	-52	07/11/2012	02/09/2015
C07RP00123	C300-RP700294	79065.53	35859.18	140.9898	4.1	-8.1	-44.9	07/11/2012	02/09/2015
C07RP00124	C300-RP700295	79065.56	35858.94	132.5821	-1.8	-3.7	-44.2	07/11/2012	02/09/2015
C07RP00125	C300-RP700296	79064.96	35859.82	135.7149	0.4	-5.7	-43	07/11/2012	18/08/2015
C07RP00126	C300-RP700297	79062.92	35862.92	131.5895	-3.6	-6.3	-37.1	07/11/2012	16/08/2015
C07RP00127	C300-RP700298	79061.82	35864.62	135.7201	-1.6	-9.2	-32.2	07/11/2012	02/09/2015
C07RP00128	C300-RP700299	79061.88	35864.48	128.1782	-5	-6.9	-34.2	07/11/2012	02/09/2015
C07RP00129	C300-RP700300	79061.37	35865.33	137.3091	-0.8	-10.7	-30.8	07/11/2012	02/09/2015
C07RP00130	C300-RP700301	79061.35	35865.33	128.7273	-2.3	-5.8	-34.7	07/11/2012	02/09/2015
C07RP00131	C300-RP700302	79058.11	35870.37	137.1585	-2.7	-11.3	-22.3	07/11/2012	02/09/2015
C07RP00132	C300-RP700303	79057.94	35870.75	129.0592	-4.6	-5.2	-25.8	07/11/2012	02/09/2015
C07RP00133	C300-RP700304	79057.62	35871.26	137.1858	-3.4	-10.7	-21.6	07/11/2012	02/09/2015
C07RP00134	C300-RP700305	79054.76	35875.48	137.1904	-4.3	-12	-18.6	07/11/2012	02/09/2015
C07RP00135	C300-RP700306	79054.45	35876.01	134.1257	-5	-9.6	-18.3	07/11/2012	02/09/2015
C07RP00136	C300-RP700307	79054.42	35876.05	129.1209	-4.8	-6.5	-18.1	07/11/2012	02/09/2015
C07RP00137	C300-RP700308	79036.65	35885.17	134.8564	3.1	-3.8	-10.1	07/11/2012	02/09/2015
C07RP00138	C300-RP700309	79036.49	35885.1	128.7453	2.7	-2.4	-10.3	07/11/2012	02/09/2015
C07RP00139	C300-RP700310	79040.39	35887.6	132.1745	3.8	-4	-9.8	07/11/2012	02/09/2015
C07RP00140	C300-RP700311	79056.82	35899.28	137.2728	5.9	-6.1	-9.1	07/11/2012	02/09/2015
C07RP00141	C300-RP700312	79056.85	35899.25	131.4084	5.5	-5.1	-9.8	07/11/2012	02/09/2015
C07RP24810	C701-RP24810-CR084	79080.61	35835.47	127.3361	-5.6	1.3	-60.6	07/11/2012	02/09/2015
C07RP24811	C701-RP24811-CR084	79077.31	35840.68	127.7687	-2.3	1.8	-57.9	07/11/2012	02/09/2015
C07RP24812	C701-RP24812-CR084	79078.42	35838.85	131.512	-0.4	3	-58.3	07/11/2012	02/09/2015
C07RP24813	C701-RP24813-CR084	79080.63	35835.67	135.3668	5	2.1	-59.8	07/11/2012	02/09/2015
C07RP24814	C701-RP24814-CR084	79077.64	35840.11	135.2556	5	3.1	-57.4	07/11/2012	02/09/2015
C07RP24910	C701-RP24910-CR084	79084.28	35829.93	128.1556	-6	2.2	-65.5	07/11/2012	30/07/2015
C07RP24911	C701-RP24911-CR084	79081	35834.84	128.363	-5.3	1.7	-60.8	07/11/2012	02/09/2015
C07RP24912	C701-RP24912-CR084	79084.27	35829.97	137.7829	0.4	5.1	-65.8	07/11/2012	02/09/2015
C07RP24913	C701-RP24913-CR084	79080.93	35834.97	137.774	-1.6	4.4	-60.6	07/11/2012	02/09/2015
C07RP25010	C701-RP25010-CR084	79091.69	35818.65	128.0815	-4.6	-5.9	-51.4	07/11/2012	28/01/2014
C07RP25012	C701-RP25012-CR084	79084.82	35829.19	128.0862	-6.4	2.1	-65.6	07/11/2012	30/07/2015
C07RP25013	C701-RP25013-CR084	79086.75	35826.36	133.7237	-3.2	3	-68.7	07/11/2012	02/09/2015
C07RP25014	C701-RP25014-CR084	79091.74	35818.66	136.7343	1.5	4.2	-75.1	12/11/2012	02/09/2015
C07RP25015	C701-RP25015-CR084	79088.62	35823.43	136.7126	-1	3	-71.2	12/11/2012	02/09/2015
C07RP25017	C701-RP25017-CR084	79084.82	35829.27	136.7584	-0.7	3.4	-66.6	07/11/2012	02/09/2015
C07RP25110	C701-RP25110-CR084	79095.53	35812.84	127.7618	-7.3	1	-57.1	07/11/2012	02/09/2015
C07RP25111	C701-RP25111-CR084	79092.09	35818.04	128.5851	-5.6	1.4	-75.8	07/11/2012	02/09/2015
C07RP25112	C701-RP25112-CR084	79093.81	35815.42	129.7215	-6.4	4.8	-66.4	07/11/2012	02/09/2015
C07RP25113	C701-RP25113-CR084	79095.18	35813.45	134.5285	-4.7	7.9	-57.6	12/11/2012	02/09/2015
C07RP25114	C701-RP25114-CR084	79092.39	35817.64	134.5506	-3.6	8.7	-72.2	12/11/2012	02/09/2015
C07RP25210	C701-RP25210-CR084	79099.02	35807.35	128.417	-9.4	-1.1	-45.3	07/11/2012	02/09/2015
C07RP25211	C701-RP25211-CR084	79095.72	35812.46	128.092	-7.9	1	-57	07/11/2012	02/09/2015
C07RP25212	C701-RP25212-CR084	79097.52	35809.68	129.9487	-8.2	1.3	-56	07/11/2012	02/09/2015
C07RP25214	C701-RP25214-CR084	79095.97	35812.12	136.0615	-5.1	9.1	-54.1	12/11/2012	02/09/2015
C07RP26710	C701-RP26710-CR084	79161.56	35811.83	128.5834	-8.3	7.8	-38.3	07/11/2012	02/09/2015
C07RP26711	C701-RP26711-CR084	79167.63	35813.67	128.6749	-8.9	1.8	-35.6	07/11/2012	02/09/2015
C07RP26712	C701-RP26712-CR084	79164.83	35812.81	132.4433	-9	6.8	-39.4	07/11/2012	02/09/2015
C07RP26714	C701-RP26714-CR084	79167.62	35813.62	139.1622	-10.6	6.5	-41.1	07/11/2012	02/09/2015
C07RP26910	C701-RP26910-CR084	79127.97	35801.3	126.7359	-2.4	-6	-34.7	07/11/2012	02/09/2015
C07RP26912	C701-RP26912-CR084	79141.45	35805.58	126.7314	-6.1	4.1	-40.2	07/11/2012	02/09/2015
C07RP26913	C701-RP26913-CR084	79131.83	35802.59	130.3536	-4.3	0.3	-34.3	07/11/2012	02/09/2015
C07RP26914	C701-RP26914-CR084	79137.7	35804.46	130.3336	-7.4	9.1	-36.5	07/11/2012	02/09/2015
C07RP26915	C701-RP26915-CR084	79128.15	35801.42	133.9389	-4.2	-4.1	-35.1	07/11/2012	02/09/2015
C07RP26916	C701-RP26916-CR084	79135.56	35803.78	133.9345	-7.7	8.9	-36	07/11/2012	02/09/2015
C07RP26917	C701-RP26917-CR084	79141.5	35805.68	133.9261	-10	13.3	-35.9	07/11/2012	02/09/2015
C07RP27010	C701-RP27010-CR084	79117.49	35807.14	128.7882	-12.2	-14.8	-43	07/11/2012	22/08/2015
C07RP27013	C701-RP27013-CR084	79122.96	35799.4	128.6049	-1.1	-7.9	-31.5	07/11/2012	02/09/2015
C07RP27014	C701-RP27014-CR084	79127.49	35801.06	128.6782	-2.2	-5.1	-35.2	07/11/2012	02/09/2015
C07RP27016	C701-RP27016-CR084	79122.56	35799.35	137.1364	-2.1	-8.8	-29.4	07/11/2012	02/09/2015
C07RP27017	C701-RP27017-CR084	79127.4	35801.17	137.5201	-2.6	-3.7	-35.2	07/11/2012	02/09/2015
C07RP27710	C701-RP27710-CR084	79060.19	35895.22	133.5719	-5.5	10.7	-6.5	07/11/2012	02/09/2015
C07RP29014	C701-RP29014-CR084	79100.69	35906.26	133.4125	2.6	-14.6	-11.6	07/11/2012	02/09/2015
C07RP29017	C701-RP29017-CR084	79099.16	35908.86	137.3751	3.4	-14	-11.1	07/11/2012	02/09/2015
C07RP31315	C701-RP31315-CR084	79153.15	35790.72	126.5666	-7.1	-3.3	-8.6	07/11/2012	02/09/2015





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP31320	C701-RP31320-CR084	79156.1	35791.44	131.129	-10.7	-1.1	-8.1	07/11/2012	02/09/2015
C07RP31326	C701-RP31326-CR084	79153.29	35790.56	136.1337	-8.5	-3.5	-7	07/11/2012	10/07/2015
C07RP31511	C701-RP31511-CR084	79086.1	35855.77	129.4063	-3.1	-9	0.7	07/11/2012	10/03/2013
C07RP31514	C701-RP31514-CR084	79086.21	35855.89	139.1226	-2.8	-9.1	0.6	07/11/2012	10/03/2013
C07RP31610	C701-RP31610-CR084	79078.28	35868.1	127.8208	-10.6	-14.6	-40.8	07/11/2012	02/09/2015
C07RP31713	C701-RP31713-CR084	79075.45	35872.37	129.075	-14.5	-2.4	-33.4	07/11/2012	02/09/2015
C07RP31714	C701-RP31714-CR084	79078.1	35868.37	129.1237	-10.7	-14.7	-40.1	07/11/2012	02/09/2015
C07RP00201	C300-RP700331	79050.52	35881.19	134.1711	-4.8	-4.3	-5.8	29/11/2012	02/09/2015
C07RP00202	C300-RP700332	79050.51	35881.19	129.14	-4.2	-0.9	-6.5	29/11/2012	02/09/2015
C07RP00203	C300-RP700333	79045.59	35877.89	134.1463	-4.1	-5.6	-7.5	29/11/2012	02/09/2015
C07RP00204	C300-RP700334	79045.58	35877.89	129.1309	-3.4	-3.1	-7.7	29/11/2012	02/09/2015
C07RP00205	C300-RP700335	79040.91	35874.66	131.0582	-3	-5.3	-8.5	29/11/2012	02/09/2015
C07RP00206	C300-RP700336	79037.28	35872.34	134.8654	-1.9	-11.7	-9.3	29/11/2012	02/09/2015
C07RP00207	C300-RP700337	79037.04	35872.11	128.6018	-1.2	-6.9	-10.2	29/11/2012	02/09/2015
C07RP00209	C300-RP700339	79033.47	35869.72	128.6006	1	-10	-12.2	29/11/2012	02/09/2015
C07RP00210	C300-RP700340	79033	35869.43	128.5608	1	-9.6	-12.4	29/11/2012	02/09/2015
C07RP00212	C300-RP700342	79028.81	35866.65	128.5494	2.1	-9.7	-16	29/11/2012	02/09/2015
C07RP00213	C300-RP700343	79028.6	35866.52	128.483	1.2	-9.7	-15.9	29/11/2012	02/09/2015
C07RP00217	C300-RP700347	79024.28	35863.76	128.285	0.5	-8.9	-19.2	29/11/2012	02/09/2015
C07RP00218	C300-RP700348	79020.23	35861.14	135.9351	0.9	-12.5	-23.4	29/11/2012	02/09/2015
C07RP00219	C300-RP700349	79019.93	35860.92	135.7559	1.1	-12.7	-24	29/11/2012	02/09/2015
C07RP00220	C300-RP700350	79019.88	35860.88	128.2756	-0.2	-7.1	-24.2	29/11/2012	02/09/2015
C07RP00221	C300-RP700351	79018.32	35859.85	132.3663	-0.3	-8.7	-25.7	29/11/2012	02/09/2015
C07RP00222	C300-RP700352	79015.28	35857.84	135.7349	-2.6	-6.5	-30.8	29/11/2012	02/09/2015
C07RP00223	C300-RP700353	79015.27	35857.83	128.2635	-2	-4	-30.8	29/11/2012	02/09/2015
C07RP00224	C300-RP700354	79005.81	35847.35	135.021	-3	-8.8	-37.6	29/11/2012	02/09/2015
C07RP00225	C300-RP700355	79004.43	35849.4	132.4027	-2.9	-10.3	-36.6	29/11/2012	02/09/2015
C07RP00226	C300-RP700356	79003.08	35851.44	134.955	-2.3	-10.9	-35.3	29/11/2012	02/09/2015
C07RP00227	C300-RP700357	79002.78	35851.88	136.095	-2	-11.3	-34.6	29/11/2012	02/09/2015
C07RP00228	C300-RP700358	79002.75	35851.92	127.356	-1.9	-7.5	-35.8	29/11/2012	02/09/2015
C07RP00229	C300-RP700359	79001.75	35853.42	131.1957	-2.6	-9	-33.3	29/11/2012	02/09/2015
C07RP00230	C300-RP700360	78999.93	35856.41	126.9279	-2.6	-6.7	-29.7	29/11/2012	02/09/2015
C07RP00231	C300-RP700361	78999.92	35856.42	136.0752	-2.8	-12.6	-29.8	29/11/2012	02/09/2015
C07RP00232	C300-RP700362	78999.7	35856.68	135.2446	-2.6	-12.7	-29.6	29/11/2012	02/09/2015
C07RP00233	C300-RP700363	78999.71	35856.68	127.2692	-3.4	-8.2	-30.1	29/11/2012	02/09/2015
C07RP00234	C300-RP700364	78998.7	35858.25	131.0017	-3.1	-9.8	-26.8	29/11/2012	02/09/2015
C07RP00235	C300-RP700365	78996.67	35861.37	135.2556	-3.6	-13.5	-21.9	29/11/2012	02/09/2015
C07RP00237	C300-RP700367	78996.29	35863.31	131.6287	-3.1	-11.7	-19.5	29/11/2012	02/09/2015
C07RP00239	C300-RP700369	78993.97	35867	126.738	-3.7	-7.1	-14	29/11/2012	02/09/2015
C07RP00240	C300-RP700370	78990.81	35870.57	128.0465	-1.1	-6.9	-8.7	29/11/2012	02/09/2015
C07RP00241	C300-RP700371	78990.8	35870.58	136.8734	-1.2	-14.2	-8.3	29/11/2012	02/09/2015
C07RP00242	C300-RP700372	78988.44	35874.33	136.8897	1.6	-11.1	-4.9	29/11/2012	02/09/2015
C07RP00243	C300-RP700373	78988.44	35874.34	136.8955	1.3	2	0.9	29/11/2012	10/03/2013
C07RP00244	C300-RP700374	78988.2	35874.68	128.0706	0.4	-5.3	-5	29/11/2012	02/09/2015
C07RP00245	C300-RP700375	78985.94	35878.12	127.9919	1.3	-4.5	-3.2	29/11/2012	02/09/2015
C07RP00246	C300-RP700376	78985.94	35878.14	135.4845	2.1	-9	-2.8	29/11/2012	02/09/2015
C07RP00247	C300-RP700377	79004.63	35873.7	136.6297	1.2	-4.6	-6	29/11/2012	02/09/2015
C07RP00248	C300-RP700378	79004.65	35873.72	127.7741	-0.4	-0.6	-6.9	29/11/2012	02/09/2015
C07RP00249	C300-RP700379	79007.06	35869.88	131.919	0.1	-3.1	-10.3	29/11/2012	02/09/2015
C07RP00250	C300-RP700380	79011.19	35868.43	136.5516	0.1	-7.8	-9.8	29/11/2012	02/09/2015
C07RP00251	C300-RP700381	79012.8	35869.49	136.621	1.4	-7.2	-9.7	29/11/2012	02/09/2015
C07RP00252	C300-RP700382	79012.9	35869.63	127.7797	0.2	-3	-10.1	29/11/2012	02/09/2015
C07RP00253	C300-RP700383	79013.62	35870.06	127.8454	0.3	-3.5	-9.4	29/11/2012	02/09/2015
C07RP00254	C300-RP700384	79013.67	35870.07	136.925	1.5	-7.5	-9.6	29/11/2012	02/09/2015
C07RP00255	C300-RP700385	79016.72	35872.09	136.9306	2.7	-7	-8.3	29/11/2012	02/09/2015
C07RP00256	C300-RP700386	79016.74	35872.16	127.8541	2.2	0.2	-11.7	29/11/2012	02/09/2015
C07RP00257	C300-RP700387	79017.37	35872.41	134.9079	2.4	-6.1	-8.5	29/11/2012	02/09/2015
C07RP00258	C300-RP700388	79021.91	35875.49	127.8188	1.1	-1.7	-6.5	29/11/2012	02/09/2015
C07RP00259	C300-RP700389	79021.92	35875.4	134.9842	2.4	-3.3	-6.1	29/11/2012	02/09/2015
C07RP00260	C300-RP700390	79022.48	35875.56	128.0988	2	-1.1	-6.6	29/11/2012	02/09/2015
C07RP00261	C300-RP700391	79022.7	35875.88	136.7283	2.4	-3.4	-5.9	29/11/2012	02/09/2015
C07RP00262	C300-RP700392	79027.09	35878.65	136.6141	-1.1	-9.2	-10.7	10/03/2013	02/09/2015
C07RP00263	C300-RP700393	79027.43	35878.91	128.0294	3	0.6	-5.6	29/11/2012	02/09/2015
C07RP00264	C300-RP700394	79028.16	35879.58	134.6587	2	-2.2	-4.6	29/11/2012	02/09/2015
C07RP00265	C300-RP700395	79028.33	35879.66	128.8193	1.6	-0.5	-4.7	29/11/2012	02/09/2015
C07RP00266	C300-RP700396	79031.5	35881.84	132.1658	1.9	-1.3	-4	29/11/2012	02/09/2015
C07RP25810	C701-RP25810-CR084-A	78992.96	35859	139.9283	-1.7	-1.8	-0.9	22/02/2013	22/03/2013
C07RP00018	C300-RP700496	79091.79	35904.13	131.1129	10.9	-0.8	-6.9	18/11/2012	20/09/2013
C07RP00023	C300-RP700497	79087.86	35892.41	136.2679	11.8	-9.7	-12.5	18/11/2012	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP00024	C300-RP700498	79092.42	35895.57	131.8045	10.3	-7	-12.1	18/11/2012	02/09/2015
C07RP00029	C300-RP700499	79087.89	35892.5	128.4714	11.2	-6.8	-13	18/11/2012	02/09/2015
C07RP00030	C300-RP700500	79087.55	35892.29	133.599	11.2	-8.2	-12.9	18/11/2012	02/09/2015
C07RP00031	C300-RP700501	79082.98	35889.25	133.5864	12	-10.1	-14.4	18/11/2012	02/09/2015
C07RP00032	C300-RP700502	79085.19	35890.68	130.6144	11.2	-8.3	-14.1	18/11/2012	02/09/2015
C07RP00033	C300-RP700503	79087.46	35892.24	128.3823	10.7	-7.3	-13	18/11/2012	02/09/2015
C07RP00034	C300-RP700504	79083	35889.29	128.209	11	-8	-14.4	18/11/2012	02/09/2015
C07RP00035	C300-RP700505	79082.73	35888.96	137.1202	12.9	-14.3	-19.2	18/11/2012	02/09/2015
C07RP00036	C300-RP700506	79078.77	35886.16	137.1192	10.7	-13.3	-18.5	18/11/2012	02/09/2015
C07RP00037	C300-RP700507	79074.44	35883.11	137.1037	11.1	-3.8	-8.7	18/11/2012	19/10/2013
C07RP00038	C300-RP700508	79070.6	35880.42	137.1072	10.7	-3.4	-8.4	18/11/2012	19/10/2013
C07RP00039	C300-RP700509	79076.62	35884.75	131.9731	9.8	-7.8	-15.7	18/11/2012	02/09/2015
C07RP00040	C300-RP700510	79078.54	35886.03	128.8736	10.1	-6.8	-15.7	18/11/2012	02/09/2015
C07RP00041	C300-RP700511	79074.36	35883.08	128.5295	11.8	-4.7	-13.9	18/11/2012	02/09/2015
C07RP00009	C300-RP700512	79098.63	35909.44	134.0183	8.6	-4.7	-9.1	18/11/2012	02/09/2015
C07RP00017	C300-RP700513	79091.73	35904.19	135.9337	12	-7.8	-9.7	18/11/2012	02/09/2015
C07RP26318	C701-RP26318-CR084	79140.01	35836.7	126.0508	0	-8.7	-20.3	18/11/2012	02/09/2015
C07RP25011	C701-RP25011-CR084	79088.57	35823.42	128.0742	3.6	6.1	-69.1	20/11/2012	02/09/2015
C07RP00010	C300-RP700688	79006.78	35847.72	136.721	-3.6	-7.9	-37.4	29/11/2012	02/09/2015
C07RP00011	C300-RP700689	79006.78	35847.72	128.2348	-2.7	-5.9	-37.6	29/11/2012	02/09/2015
C07RP00012	C300-RP700690	79009.14	35849.37	132.6279	-2.8	-6.4	-36.4	29/11/2012	02/09/2015
C07RP00013	C300-RP700691	79013.36	35852.32	136.7395	-3.6	-6.6	-33.5	29/11/2012	02/09/2015
C07RP00014	C300-RP700692	79013.39	35852.33	128.1158	-3.4	-3.8	-34	29/11/2012	02/09/2015
C07RP00015	C300-RP700693	79013.94	35856.89	138.3162	-3.1	-7.2	-31.1	29/11/2012	02/09/2015
C07RP00016	C300-RP700694	79013.95	35856.9	128.1016	-1.8	-4.4	-31.7	29/11/2012	02/09/2015
C07RP00042	C300-RP700695	79063.38	35890.44	135.3368	3.3	-2.1	-5.4	29/11/2012	02/09/2015
C07RP00043	C300-RP700696	79134.91	35785.06	126.3463	-6.3	7.3	-5.5	29/11/2012	10/07/2015
C07RP00150	C300-RP700697	79022.27	35766.19	134.2582	-3.7	8.4	-4.4	29/11/2012	02/09/2015
C07RP00152	C300-RP700699	79033.24	35770.1	133.7256	-2.1	8.9	-1.9	29/11/2012	02/09/2015
C07RP00153	C300-RP700700	79033.26	35770.07	126.688	-1.1	5	-3.8	29/11/2012	02/09/2015
C07RP00154	C300-RP700701	79029.9	35773.16	133.4916	-1.9	9.9	-3.8	29/11/2012	02/09/2015
C07RP00157	C300-RP700703	79024.3	35777.27	133.4219	-3.1	10	-5.9	29/11/2012	02/09/2015
C07RP00158	C300-RP700704	79019.79	35780.7	133.8124	-3.3	10.9	-10.7	29/11/2012	02/09/2015
C07RP00159	C300-RP700705	79019.75	35780.69	126.0726	-4.2	8.2	-8.1	29/11/2012	02/09/2015
C07RP00160	C300-RP700706	79013.78	35785.2	126.0043	-2.7	7.3	-12.6	29/11/2012	02/09/2015
C07RP00161	C300-RP700707	79008.8	35789.04	130.1958	-4.4	10.6	-21.3	29/11/2012	02/09/2015
C07RP00162	C300-RP700708	79008.73	35789.07	125.9288	-3.7	6.9	-17.6	29/11/2012	02/09/2015
C07RP00163	C300-RP700709	79004.84	35792.03	125.7658	-4.3	6.8	-23.9	29/11/2012	02/09/2015
C07RP00164	C300-RP700710	79004.53	35792.28	130.1969	-5.1	10.6	-23.5	29/11/2012	02/09/2015
C07RP00165	C300-RP700711	79000.61	35795.24	125.735	-5	5.7	-35.4	29/11/2012	02/09/2015
C07RP00166	C300-RP700712	79000.28	35795.51	130.27	-5.8	10.9	-40.6	29/11/2012	02/09/2015
C07RP00167	C300-RP700713	78996.47	35798.4	125.6875	-8	3.7	-44.6	29/11/2012	02/09/2015
C07RP00168	C300-RP700714	78996.16	35798.64	130.232	-9.1	7.5	-44	29/11/2012	02/09/2015
C07RP00178	C300-RP700719	79075.28	35783.68	125.8555	-0.8	12.2	-7.3	29/11/2012	02/09/2015
C07RP00180	C300-RP700721	79080.08	35785.39	126.0619	-1.1	14	-8.6	29/11/2012	02/09/2015
C07RP00181	C300-RP700722	79080.76	35785.53	125.7383	-0.8	13.8	-8.7	29/11/2012	02/09/2015
C07RP00184	C300-RP700725	79086.15	35787.63	125.737	-0.9	15	-10.3	29/11/2012	02/09/2015
C07RP00186	C300-RP700727	79086.55	35787.82	124.6903	1.3	7.1	1	29/11/2012	12/08/2013
C07RP00187	C300-RP700728	79091.55	35789.61	124.801	0.9	7.5	0.6	29/11/2012	12/08/2013
C07RP00189	C300-RP700730	79092.01	35789.58	125.9658	-2.3	14.2	-17.4	29/11/2012	02/09/2015
C07RP00190	C300-RP700731	79094.62	35790.47	125.9821	-0.8	11	-14.9	29/11/2012	02/09/2015
C07RP00192	C300-RP700733	79094.94	35790.57	126.0127	-1.4	12.6	-13.5	29/11/2012	02/09/2015
C07RP00193	C300-RP700734	79107.03	35794.63	126.1022	1	7.5	-15.5	29/11/2012	02/09/2015
C07RP00194	C300-RP700735	79106.99	35794.63	134.6425	1	14.6	-14.8	29/11/2012	02/09/2015
C07RP00267	C300-RP700736	79107.43	35794.69	135.0044	1.6	10	-11.5	05/12/2012	10/07/2015
C07RP00268	C300-RP700737	79045.12	35890.4	132.3822	0.9	-2.6	-1.3	06/12/2012	02/09/2015
C07RP23310	C701-RP23310-CR084	78997.22	35812.96	127.1084	-13.1	-7.6	-24.5	29/11/2012	02/09/2015
C07RP23311	C701-RP23311-CR084	78999.71	35811.04	129.2313	-14.3	-8.3	-26.8	29/11/2012	02/09/2015
C07RP23510	C701-RP23510-CR084	79002.81	35808.67	127.1699	-12.5	-7.4	-28.8	29/11/2012	02/09/2015
C07RP23511	C701-RP23511-CR084	79007.73	35804.89	126.993	-11.1	-6	-41.5	29/11/2012	02/09/2015
C07RP23512	C701-RP23512-CR084	79005.39	35806.68	128.8373	-13	-6.4	-33	29/11/2012	02/09/2015
C07RP23514	C701-RP23514-CR084	79007.75	35804.86	131.5837	-14.8	-6.5	-37.1	29/11/2012	02/09/2015
C07RP23610	C701-RP23610-CR084	79008.69	35804.16	125.0382	-9.2	-4.4	-37.9	29/11/2012	02/09/2015
C07RP23611	C701-RP23611-CR084	79012.41	35801.31	125.096	-8	-1.4	-40.2	29/11/2012	02/09/2015
C07RP23612	C701-RP23612-CR084	79010.34	35802.84	128.5413	-12.4	-4.4	-36.3	29/11/2012	02/09/2015
C07RP23614	C701-RP23614-CR084	79012.63	35801.12	132.5827	-12.1	-0.1	-35	29/11/2012	02/09/2015
C07RP23710	C701-RP23710-CR084	79012.99	35800.89	125.4967	-8.8	-0.4	-35.9	29/11/2012	02/09/2015
C07RP23711	C701-RP23711-CR084	79017.81	35797.16	125.511	-6.7	3.4	-30.6	29/11/2012	02/09/2015
C07RP23712	C701-RP23712-CR084	79014.46	35799.73	128.3013	-9.2	0.9	-34.9	29/11/2012	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP23713	C701-RP23713-CR084	79012.96	35800.89	132.9876	-11.7	0.3	-34.7	29/11/2012	02/09/2015
C07RP23714	C701-RP23714-CR084	79033.75	35785.44	131.6475	-2.3	13.5	-13.1	29/11/2012	02/09/2015
C07RP23810	C701-RP23810-CR084	79019.17	35796.14	124.8541	-6	3.6	-30.2	29/11/2012	02/09/2015
C07RP23811	C701-RP23811-CR084	79026.55	35790.59	124.7433	-3.9	6.5	-16.8	29/11/2012	02/09/2015
C07RP23812	C701-RP23812-CR084	79024.3	35792.2	129.2219	-5.2	7.4	-18.7	29/11/2012	02/09/2015
C07RP23813	C701-RP23813-CR084	79019.13	35796.11	131.8109	-8.7	7.3	-28.2	29/11/2012	02/09/2015
C07RP23814	C701-RP23814-CR084	79026.58	35790.55	131.9285	-5.6	11.1	-13.6	29/11/2012	02/09/2015
C07RP23910	C701-RP23910-CR084	79033.88	35785.35	125.448	-3	8	-12.3	29/11/2012	02/09/2015
C07RP23911	C701-RP23911-CR084	79028.93	35788.8	129.2792	-3.5	10.5	-14.3	29/11/2012	02/09/2015
C07RP24010	C701-RP24010-CR084	79039.96	35779.98	125.3472	-3.2	8.6	-7.2	29/11/2012	02/09/2015
C07RP24110	C701-RP24110-CR084	79042.14	35778.03	124.8574	-2.6	8.5	-5.9	29/11/2012	02/09/2015
C07RP24313	C701-RP24313-CR084	79043.2	35778.18	124.9903	-2.9	8.8	-5.9	29/11/2012	02/09/2015
C07RP24314	C701-RP24314-CR084	79051.24	35775.59	125.6772	-2.1	11.1	-3.5	29/11/2012	02/09/2015
C07RP24315	C701-RP24315-CR084	79044.91	35775.54	129.3411	-2.7	12.1	-3.9	29/11/2012	02/09/2015
C07RP24316	C701-RP24316-CR084	79048.74	35774.04	129.7297	-1.8	12.3	-2.8	29/11/2012	02/09/2015
C07RP24611	C701-RP24611-CR084	79029.35	35810.38	123.4106	11.5	3.1	-17.1	29/11/2012	01/12/2014
C07RP24710	C701-RP24710-CR084	79058.72	35777.95	125.0264	-3.1	12.9	-3.2	29/11/2012	02/09/2015
C07RP24711	C701-RP24711-CR084	79064.45	35780.01	125.0248	-2.9	13.3	-4.1	29/11/2012	02/09/2015
C07RP24716	C701-RP24716-CR084	79065.65	35783.22	125.1085	-4.5	14.2	-15.8	30/11/2012	02/09/2015
C07RP24717	C701-RP24717-CR084	79062.6	35788.36	125.0278	-5.3	14.4	-20	29/11/2012	02/09/2015
C07RP24720	C701-RP24720-CR084	79052.49	35799.4	124.6806	4	4.4	-11.2	29/11/2012	14/01/2014
C07RP24728	C701-RP24728-CR084	79059.48	35790.51	124.907	-4	14.8	-21.8	29/11/2012	02/09/2015
C07RP24815	C701-RP24815-CR084	79045.69	35826.99	124.1694	-2.8	2.8	-41.8	29/11/2012	02/09/2015
C07RP24816	C701-RP24816-CR084	79051.33	35818.31	124.5495	6.7	8.6	-29.5	29/11/2012	02/12/2014
C07RP24818	C701-RP24818-CR084	79045.88	35826.66	134.9665	-5.1	2.2	-37.8	29/11/2012	02/09/2015
C07RP24819	C701-RP24819-CR084	79051.21	35818.48	134.9644	11.4	11.5	-29.6	29/11/2012	02/12/2014
C07RP24914	C701-RP24914-CR084	79055.09	35812.52	134.5795	14	10.5	-34.9	29/11/2012	02/12/2014
C07RP25018	C701-RP25018-CR084	79055.3	35812.2	123.7213	6.3	9	-35.6	29/11/2012	02/12/2014
C07RP25019	C701-RP25019-CR084	79056.71	35810.08	123.7968	5.9	9.2	-36.6	29/11/2012	02/12/2014
C07RP25021	C701-RP25021-CR084	79062.48	35801.42	123.8806	1.1	8.3	-35	29/11/2012	02/09/2015
C07RP25023	C701-RP25023-CR084	79062.45	35801.47	129.4481	6.3	6.5	-33.7	29/11/2012	02/09/2015
C07RP25026	C701-RP25026-CR084	79060.53	35804.33	134.7882	9.7	5.8	-37.3	29/11/2012	02/09/2015
C07RP25115	C701-RP25115-CR084	79062.66	35800.76	124.1194	-0.6	6.5	-34.5	29/11/2012	02/09/2015
C07RP25117	C701-RP25117-CR084	79064.57	35798.23	125.3919	0	8.4	-30	29/11/2012	02/09/2015
C07RP25118	C701-RP25118-CR084	79062.64	35800.75	127.4728	2.8	4.6	-33.4	29/11/2012	02/09/2015
C07RP25119	C701-RP25119-CR084	79066.29	35795.62	127.4211	1.5	3.7	-21.5	29/11/2012	02/09/2015
C07RP25216	C701-RP25216-CR084	79068	35792.83	123.7408	-2.6	9.9	-22.5	29/11/2012	02/09/2015
C07RP25217	C701-RP25217-CR084	79066.44	35794.98	125.607	-3.8	7.3	-23.9	29/11/2012	02/09/2015
C07RP25218	C701-RP25218-CR084	79068.01	35792.76	125.6952	-2.1	9.6	-21.5	29/11/2012	02/09/2015
C07RP25610	C701-RP25610-CR084	79068.29	35792.28	125.2745	1.9	5.1	-11.8	29/11/2012	15/01/2014
C07RP25611	C701-RP25611-CR084	79065.16	35790.43	127.3294	-3.6	13.7	-20.5	29/11/2012	02/09/2015
C07RP25617	C701-RP25617-CR084	79068.66	35784.21	129.7614	-1.9	14.7	-7.1	29/11/2012	02/09/2015
C07RP25619	C701-RP25619-CR084	79070.46	35782.2	127.1594	-1.3	12.8	-5.9	29/11/2012	02/09/2015
C07RP25620	C701-RP25620-CR084	79074.47	35783.6	127.1385	-0.8	13.3	-7.4	29/11/2012	02/09/2015
C07RP25621	C701-RP25621-CR084	79072.49	35782.91	129.8574	-1.1	14.5	-8	29/11/2012	02/09/2015
C07RP29010A	C701-RP29010A-CR084	79099.18	35908.87	129.6883	1.5	0.3	-2.3	29/11/2012	02/09/2015
C07RP31315A	C701-RP31315A-CR084	79153.16	35790.72	126.567	1.4	7.2	-3.6	29/11/2012	07/10/2013
C07RP31320A	C701-RP31320A-CR084	79156.1	35791.44	131.1297	1.2	7.9	-2.6	29/11/2012	07/10/2013
C07RP00303	C300-RP700769	79013.48	35822.8	125.6718	-7	5.8	-19.7	13/01/2013	02/09/2015
C07RP00001	C300-RP700867	79142.38	35805.99	129.6511	-5.3	12	-35.3	04/03/2013	02/09/2015
C07RP00007	C300-RP700869	79159.99	35811.38	129.7774	-4.5	14.9	-35.1	04/03/2013	02/09/2015
C07RP00109	C300-RP700871	79076.95	35841.04	127.97	-0.4	8.4	-50.8	28/01/2013	04/08/2015
C07RP00148	C300-RP700876	79065.86	35886.21	135.3439	0.6	-9.6	-8.9	21/05/2013	02/09/2015
C07RP00171	C300-RP700878	78987.93	35804.9	130.4583	-11.7	-4.4	-51.7	10/03/2013	02/09/2015
C07RP23613	C701-RP23613-CR084	79008.25	35804.45	132.2499	-6.8	-3	-47.6	10/03/2013	02/09/2015
C07RP25024	C701-RP25024-CR084	79055.31	35812.17	133.7014	1.2	8.3	-48.1	10/03/2013	02/12/2014
C07RP25025	C701-RP25025-CR084	79056.87	35809.83	134.9353	7.8	5.3	-47.4	10/03/2013	02/12/2014
C07RP25612	C701-RP25612-CR084	79066.63	35791.29	129.5399	-6.1	13.7	-14.7	23/05/2013	02/09/2015
C07RP26911	C701-RP26911-CR084	79135.9	35803.36	126.2152	-1.8	10.8	-28	13/01/2013	25/08/2015
C07RP00270	C300-RP700979	79114.87	35779.91	135.5719	-3.3	7.8	-6.3	04/03/2013	02/09/2015
C07RP00271	C300-RP700980	79114.69	35779.84	126.4505	-4.8	5.3	-7.1	04/03/2013	02/09/2015
C07RP00272	C300-RP700981	79109.51	35777.93	135.5435	3.3	1.3	-0.3	14/01/2013	19/05/2015
C07RP00273	C300-RP700982	79109.48	35777.92	131.4113	-0.7	8.9	-7.9	27/01/2013	10/05/2015
C07RP00275	C300-RP700984	79104.52	35776.91	135.5342	1.3	2.8	-0.3	13/01/2013	10/07/2015
C07RP00276	C300-RP700985	79104.5	35776.89	126.1054	-5.2	0.2	-3.6	10/03/2013	16/04/2015
C07RP00277	C300-RP700986	79095.5	35774.05	135.5318	2.4	1.9	-1.2	14/01/2013	02/09/2015
C07RP00278	C300-RP700987	79095.5	35774.02	131.3038	2.3	1.7	-1.5	14/01/2013	02/09/2015
C07RP00279	C300-RP700988	79095.51	35774.02	126.4099	2	2.2	-1.9	14/01/2013	02/09/2015
C07RP00280	C300-RP700998	79091.43	35771.99	132.9255	3.4	0.1	-0.8	14/01/2013	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
C07RP00281	C300-RP700999	79091.47	35772	128.5823	2.5	1.5	-1.5	14/01/2013	02/09/2015
C07RP00282	C300-RP701000	79091.48	35771.98	124.6889	2.3	0.7	-1.8	14/01/2013	02/09/2015
C07RP00283	C300-RP701001	79086.55	35770.29	132.9371	-0.2	-1	-2.2	31/05/2013	10/06/2015
C07RP00284	C300-RP701002	79086.49	35770.29	128.5628	0.9	-0.6	0	14/01/2013	20/05/2015
C07RP00286	C300-RP701004	79085.91	35770.11	132.9463	1.9	0.2	0.4	14/01/2013	20/05/2015
C07RP00287	C300-RP701005	79085.95	35770.16	125.378	0.6	-0.6	-2.2	14/01/2013	26/05/2015
C07RP00288	C300-RP701006	79083.93	35769.44	129.0339	1.5	0.2	0.3	14/01/2013	20/05/2015
C07RP00289	C300-RP701007	79079.78	35768.05	132.9544	0.7	-0.8	0.2	14/01/2013	20/05/2015
C07RP00290	C300-RP701008	79079.8	35768.09	125.3789	1.3	0	-0.8	14/01/2013	17/08/2015
C07RP00291	C300-RP701009	79078.81	35767.66	133.1617	1.9	-0.4	0	14/01/2013	22/05/2015
C07RP00292	C300-RP701010	79078.82	35767.7	125.73	1.2	-1.5	-0.1	14/01/2013	20/05/2015
C07RP00294	C300-RP701012	79070.31	35765.02	133.8111	0.1	-1.2	-0.7	31/05/2013	10/06/2015
C07RP00295	C300-RP701013	79070.94	35765.15	125.6578	3.2	-3.8	-13.9	31/05/2013	21/05/2015
C07RP00296	C300-RP701014	79070.73	35764.99	132.9549	-3.4	4.5	-0.9	31/05/2013	26/05/2015
C07RP00297	C300-RP701015	79069.95	35765.06	124.7941	-0.4	-1.2	-2.7	31/05/2013	26/05/2015
C07RP00298	C300-RP701016	79060.06	35761.64	133.4878	-3.4	3.1	-4.3	10/03/2013	26/05/2015
C07RP00299	C300-RP701017	79060.1	35761.91	124.7639	-1.7	2.2	-2.4	14/01/2013	10/06/2015
C07RP00300	C300-RP701022	78961.53	35912.85	143.0602	1.9	2.9	0.4	13/01/2013	02/09/2015
C07RP00301	C300-RP701023	78984.35	35905.07	135.2009	-0.1	4.9	0.5	13/01/2013	02/09/2015
C07RP00302	C300-RP701024	78999.93	35822.67	131.2547	-8.5	-2	-18.4	13/01/2013	02/09/2015
C07RP00310	C300-RP701040	79122.08	35771.99	135.5164	0.7	7.2	-2.9	25/01/2013	10/07/2015
C07RP00311	C300-RP701041	79121.97	35772.09	126.422	-1.7	5.5	-6.5	25/01/2013	10/07/2015
C07RP00312	C300-RP701042	79117.77	35778.64	135.5328	-3.8	7.3	-6.4	04/03/2013	02/09/2015
C07RP00314	C300-RP701044	79133.88	35782.69	136.465	-5.6	6.7	-5.8	25/01/2013	10/07/2015
C07RP00315	C300-RP701045	79133.81	35782.52	126.3704	-5.8	5.6	-6.7	25/01/2013	10/07/2015
C07RP00316	C300-RP701046	79136.09	35779.31	136.4623	-5.2	6.2	-5.3	25/01/2013	10/07/2015
C07RP00317	C300-RP701047	79135.94	35779.18	126.3204	-5.1	5.9	-5.6	25/01/2013	10/07/2015
C07RP00318	C300-RP701048	79137.6	35776.93	136.4759	-5.1	5.8	-4.9	25/01/2013	10/07/2015
C07RP00319	C300-RP701049	79137.43	35776.85	126.3239	-4.4	5.6	-5.3	25/01/2013	10/07/2015
C07RP00320	C300-RP701050	79139.73	35773.5	136.4582	-5.3	5.7	-4.4	25/01/2013	10/07/2015
C07RP00321	C300-RP701051	79139.6	35773.44	126.3161	-4.4	5.6	-4.6	25/01/2013	10/07/2015
C07RP00340	C300-RP701169	79017.8	35797.17	132.8086	-4.1	6.1	-35.6	05/03/2013	02/09/2015
C07RP00341	C300-RP701179	78988.26	35874.6	135.4916	0.3	-12.4	-5.5	05/03/2013	02/09/2015
C07RP00343	C300-RP701181	78991.14	35870.05	126.6784	-2.4	-9	-9.7	05/03/2013	02/09/2015
C07RP00344	C300-RP701182	78993.98	35866.98	131.6366	-3.5	-15	-13.9	05/03/2013	02/09/2015
C07RP00345	C300-RP701183	78996.48	35861.6	126.7366	-3.7	-10.3	-22.2	05/03/2013	02/09/2015
C07RP00346	C300-RP701184	79017.4	35872.51	127.8305	2	-2.2	-12.2	05/03/2013	02/09/2015
C07RP00347	C300-RP701185	79020.28	35861.14	128.2056	-1.3	-11.2	-24.3	05/03/2013	02/09/2015
C07RP00348	C300-RP701186	79024.67	35863.95	128.2816	-0.3	-12.4	-19.4	05/03/2013	02/09/2015
C07RP00350	C300-RP701188	79152.34	35790.37	136.467	0.7	0.9	-7.2	10/03/2013	02/09/2015
C07RP00351	C300-RP701189	79152.28	35790.51	126.2977	-4.2	8.8	-7.3	10/03/2013	02/09/2015
C07RP00352	C300-RP701190	79148.36	35789.06	136.4751	2.3	4.7	-7	10/03/2013	02/09/2015
C07RP00353	C300-RP701191	79148.3	35789.26	126.29	3.2	0.4	-7	10/03/2013	02/09/2015
C07RP00354	C300-RP701192	79145.68	35788.23	136.4688	-4.3	7.5	-6.8	10/03/2013	02/09/2015
C07RP00355	C300-RP701193	79145.62	35788.42	126.2955	-4.3	-0.4	-7.2	10/03/2013	02/09/2015
C07RP00356	C300-RP701194	79141.68	35786.97	136.4868	-2.3	8.5	-8.1	10/03/2013	02/09/2015
C07RP00357	C300-RP701195	79141.4	35787.1	126.348	2	2.5	-8.2	10/03/2013	02/09/2015
C07RP00358	C300-RP701196	79138.99	35786.12	136.473	-2.5	2.6	-8.1	10/03/2013	02/09/2015
C07RP00359	C300-RP701197	79138.89	35786.31	126.3583	-5.8	6.4	-8.4	05/03/2013	10/07/2015
C07RP00360	C300-RP701198	79134.99	35784.92	136.4788	-5.8	6.7	-7.7	05/03/2013	10/07/2015
C07RP00361	C300-RP701199	79066.3	35885.66	137.1383	-2.8	-14	-14.6	10/03/2013	02/09/2015
C07RP00362	C300-RP701200	79067.65	35883.91	132.8615	0.9	-9.9	-12.2	10/03/2013	02/09/2015
C07RP00363	C300-RP701201	79066.3	35885.68	129.721	-4.2	-10.3	-11.5	10/03/2013	02/09/2015
C07RP00364	C300-RP701202	79070.57	35880.42	128.8353	0.8	-6	-11.5	05/03/2013	02/09/2015
C07RP00365	C300-RP701203	79082.7	35888.96	128.8943	2.2	-7.5	-9.1	05/03/2013	02/09/2015
C07RP00366	C300-RP701204	79063.39	35890.44	129.5805	-2.7	-6.8	-9.6	10/03/2013	02/09/2015
C07RP00367	C300-RP701205	79065.88	35886.22	129.6777	-4	-8.2	-11.4	10/03/2013	02/09/2015
C07RP00368	C300-RP701206	79062.13	35892.7	136.4133	1.6	-0.9	-7.3	10/03/2013	02/09/2015
C07RP00369	C300-RP701207	79062.11	35892.69	129.1102	-1.3	-4.4	-12.7	10/03/2013	02/09/2015
C07RP00370	C300-RP701208	79054.76	35875.49	129.0124	-3.5	-0.8	-1.8	10/03/2013	02/09/2015
C07RP00371	C300-RP701209	79060.36	35867.01	132.7458	-0.5	-8.8	-30.9	10/03/2013	02/09/2015
C07RP00372	C300-RP701210	79064.95	35859.81	128.1922	-1.7	1.9	-38.3	05/03/2013	16/08/2015
C07RP00373	C300-RP701211	79065.52	35859.14	127.4264	-1.4	0.7	-37.8	05/03/2013	16/08/2015
C07RP00375	C300-RP701213	79074.78	35844.57	128.9459	-0.9	0.6	-36.2	02/09/2013	02/09/2015
C07RP00376	C300-RP701214	79051.58	35817.71	134.7212	6.5	7.5	-43.9	10/03/2013	02/12/2014
C07RP00377	C300-RP701215	79053.85	35814.24	131.1411	3.9	0.8	-47.7	10/03/2013	02/12/2014
C07RP00378	C300-RP701216	79051.68	35817.76	125.035	5	-3.4	-28.2	24/06/2013	02/12/2014
C07RP00379	C300-RP701217	79055.14	35812.44	125.0263	1	-3.1	-48.3	10/03/2013	02/12/2014
C07RP00380	C300-RP701218	79090.55	35820.54	133.6753	8.6	8.7	-77.3	10/03/2013	02/09/2015





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP00381	C300-RP701219	79088.28	35909.17	135.3145	6.1	-1.6	-3.3	10/03/2013	02/09/2015
C07RP00382	C300-RP701220	79086.36	35912.23	135.3511	6.3	-4.3	-3.3	10/03/2013	02/09/2015
C07RP00383	C300-RP701221	79086.28	35912.24	129.1472	2.1	2.7	-3.6	10/03/2013	02/09/2015
C07RP00384	C300-RP701222	79089.38	35907.98	135.6525	3.5	-5.5	-3.4	05/03/2013	02/09/2015
C07RP00385	C300-RP701223	79090.23	35906.05	134.1303	-0.7	-8.5	-3	10/03/2013	02/09/2015
C07RP00386	C300-RP701224	79092.31	35919.12	129.0633	-2.3	0.3	-3.8	05/03/2013	13/07/2015
C07RP00387	C300-RP701225	79095.37	35914.44	133.9854	-1.1	-1.6	-2.6	05/03/2013	02/09/2015
C07RP00388	C300-RP701226	79095.51	35914.22	129.0365	-1.1	-0.7	-2.8	05/03/2013	02/09/2015
C07RP00389	C300-RP701227	79098.63	35909.44	129.0412	-1.9	-2	-4.1	05/03/2013	02/09/2015
C07RP00390	C300-RP701239	79099.88	35792.16	129.7877	1.9	9.1	-19.3	05/03/2013	02/09/2015
C07RP00400	C300-RP701240	79042.38	35777.56	124.2457	-2.7	4.6	-9.6	10/03/2013	02/09/2015
C07RP00401	C300-RP701241	79046.1	35774.19	124.276	3.9	8.1	-5.9	10/03/2013	02/09/2015
C07RP00402	C300-RP701242	79052.63	35775.5	124.286	2.5	10.4	-5.8	10/03/2013	02/09/2015
C07RP00403	C300-RP701243	79053.01	35775.81	132.2521	-1.4	14.4	-5.5	10/03/2013	02/09/2015
C07RP00404	C300-RP701244	79058.16	35777.72	132.2376	2	13	-5	10/03/2013	02/09/2015
C07RP00405	C300-RP701245	79053	35775.84	125.5755	-0.1	7.2	-5.7	10/03/2013	02/09/2015
C07RP00406	C300-RP701246	79058.22	35777.77	125.6242	2.2	6.3	-5.1	10/03/2013	02/09/2015
C07RP00407	C300-RP701247	79044.71	35890.96	129.4814	3.6	-8.1	-5.5	10/03/2013	02/09/2015
C07RP00408	C300-RP701248	79042.4	35894.53	132.2447	-0.9	-7.6	-3.6	10/03/2013	02/09/2015
C07RP00409	C300-RP701249	79040.41	35897.61	134.8711	3.6	-8.7	-2	10/03/2013	02/09/2015
C07RP00410	C300-RP701250	79040.42	35897.66	129.3972	-1.3	-0.9	-2.1	10/03/2013	02/09/2015
C07RP00411	C300-RP701251	79040.13	35898.06	138.1876	1.4	-9.4	-2	10/03/2013	02/09/2015
C07RP00412	C300-RP701252	79037.08	35902.74	138.2124	4.5	-5.8	-0.8	10/03/2013	02/09/2015
C07RP00413	C300-RP701253	79033.95	35907.7	137.3272	0.1	-2.2	0.4	10/03/2013	02/09/2015
C07RP00414	C300-RP701254	79040.13	35898.05	129.4087	0.5	-5.8	-1.9	10/03/2013	02/09/2015
C07RP00415	C300-RP701255	79037.06	35902.78	129.784	5.4	-5.7	-0.5	10/03/2013	02/09/2015
C07RP00416	C300-RP701256	79033.67	35908.11	128.3071	7.4	1.3	-0.2	10/03/2013	02/09/2015
C07RP00417	C300-RP701257	79010.55	35868.06	129.7924	1	-2.1	-21	10/03/2013	02/09/2015
C07RP00418	C300-RP701258	79005.8	35847.34	127.5403	-5.2	-11.4	-51.3	10/03/2013	02/09/2015
C07RP00419	C300-RP701259	79003	35851.54	127.5355	-7	-14.8	-48	10/03/2013	02/09/2015
C07RP00420	C300-RP701260	79085.83	35912.93	134.1064	1.3	-4.8	-2.4	10/03/2013	02/09/2015
C07RP00421	C300-RP701261	79083.15	35917.42	134.0969	8.8	-8.2	-4.3	10/03/2013	02/09/2015
C07RP00422	C300-RP701262	79085.81	35912.94	129.6708	0.4	8.9	-6.5	10/03/2013	02/09/2015
C07RP00423	C300-RP701263	79083.14	35917.44	129.3667	10.7	-13.2	-15.2	10/03/2013	08/09/2014
C07RP00424	C300-RP701264	79098.63	35909.44	134.022	-2.3	1.7	0.1	25/03/2013	16/04/2013
C07RP00429	C300-RP701271	78891.32	35874.12	142.941	-6.7	-2.8	-10.9	10/03/2013	02/09/2015
C07RP00426	C300-RP701266	78883.1	35881.08	142.8754	11.2	-6.8	-2.4	10/03/2013	25/09/2013
C07RP00427	C300-RP701267	78883.55	35876.88	142.8495	1.6	-7	-6.6	10/03/2013	25/09/2013
C07RP00428	C300-RP701268	78885	35872.16	142.8733	1.6	-10.6	-5.1	10/03/2013	25/09/2013
C07RP00430	C300-RP701270	79074.94	35766.43	130.4576	-2.8	2.7	-0.7	10/03/2013	02/09/2015
C07RP00431	C300-RP701273	79116.68	35882.06	129.4863	-2	-2.6	-8.8	23/05/2013	02/09/2015
C07RP00432	C300-RP701274	79116.63	35882.16	137.4104	-2.7	-2.5	-8.6	23/05/2013	02/09/2015
C07RP00433	C300-RP701278	78988.42	35874.34	128.0717	0.3	-7.8	-7.7	23/05/2013	02/09/2015
C07RP00434	C300-RP701279	78996.68	35861.34	127.2111	-3.3	-10.2	-25.3	23/05/2013	02/09/2015
C07RP00435	C300-RP701280	79057.65	35871.19	129.0705	-6.1	-3.7	-19.7	22/05/2013	02/09/2015
C07RP00436	C300-RP701281	79088.6	35908.6	129.1337	4.7	-1.5	-4.2	23/05/2013	02/09/2015
C07RP00437	C300-RP701283	78969.18	35819.32	125.8875	-11.5	-15	-32	23/05/2013	02/09/2015
C07RP00020	C300-RP700263	79091.96	35903.39	136.1641	6.7	-5.9	-12.6	23/05/2013	02/09/2015
C07RP00021	C300-RP700264	79095.44	35897.94	136.114	5.3	-6.8	-14.7	23/05/2013	02/09/2015
C07RP00022	C300-RP700265	79095.41	35897.56	136.1264	5.3	-7.1	-14.9	23/05/2013	02/09/2015
C07RP00025	C300-RP700266	79093.71	35900.64	130.7778	6.6	-6.1	-12.8	23/05/2013	02/09/2015
C07RP00026	C300-RP700267	79091.97	35903.33	128.3243	5.9	-4.2	-12.8	23/05/2013	02/09/2015
C07RP00027	C300-RP700268	79095.44	35897.92	128.3091	4.9	-4.5	-12.8	23/05/2013	02/09/2015
C07RP00028	C300-RP700269	79095.36	35897.57	128.3341	5	-4.8	-12.9	23/05/2013	02/09/2015
C07RP26319	C701-RP26319-CR084	79142.17	35830.15	126.2094	-8.9	-0.6	-46.5	23/05/2013	02/09/2015
C07RP26320	C701-RP26320-CR084	79140.69	35834.58	127.298	-7.8	-0.7	-32.3	23/05/2013	02/09/2015
C07RP26323	C701-RP26323-CR084	79142.03	35829.3	125.9815	-9	0.5	-48.4	23/05/2013	02/09/2015
C07RP26713	C701-RP26713-CR084	79161.39	35811.74	139.1798	-13.2	22.4	-34.5	23/05/2013	02/09/2015
C07RP28010	C701-RP28010-CR084	79114.64	35869.74	127.8469	-7.3	-18.9	-36.7	23/05/2013	02/09/2015
C07RP28011	C701-RP28011-CR084	79108.58	35879.43	127.8064	-3.9	-17.5	-24.8	23/05/2013	02/09/2015
C07RP28012	C701-RP28012-CR084	79111.53	35874.72	131.6506	-5.9	-23.2	-31.6	23/05/2013	02/09/2015
C07RP28013	C701-RP28013-CR084	79114.65	35869.71	138.3899	-8.9	-35.9	-36.1	23/05/2013	02/09/2015
C07RP28014	C701-RP28014-CR084	79108.62	35879.36	138.3216	-5.2	-33.1	-24.5	23/05/2013	02/09/2015
C07RP28110	C701-RP28110-CR084	79107.93	35880.46	128.926	-3.4	-18.6	-23.5	23/05/2013	02/09/2015
C07RP28111	C701-RP28111-CR084	79105.46	35884.19	128.9959	-1.4	-17.4	-20.5	23/05/2013	02/09/2015
C07RP28112	C701-RP28112-CR084	79100.84	35889.83	129.2345	1.4	-15.3	-16.9	23/05/2013	02/09/2015
C07RP28114	C701-RP28114-CR084	79107.83	35880.59	134.336	-4.3	-25.5	-23	23/05/2013	02/09/2015
C07RP28115	C701-RP28115-CR084	79105.44	35884.19	134.3243	-2.1	-23.8	-19.9	23/05/2013	02/09/2015
C07RP28116	C701-RP28116-CR084	79101.11	35889.39	134.3401	2	-20.5	-16.9	23/05/2013	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP28121	C701-RP28121-CR084	79095.52	35886.55	134.3404	10.5	-19.4	-17.9	23/05/2013	02/09/2015
C07RP28122	C701-RP28122-CR084	79087.96	35881.57	134.3243	7.5	-16.7	-23.5	23/05/2013	02/09/2015
C07RP28810	C701-RP28810-CR084	79131.02	35885.3	132.3656	-0.9	-4.6	-13.1	23/05/2013	02/09/2015
C07RP28812	C701-RP28812-CR084	79130.99	35885.27	144.9348	-1.2	-6	-12.8	23/05/2013	02/09/2015
C07RP28911	C701-RP28911-CR084	79123.45	35883.51	129.5983	-1.8	-4.9	-16	23/05/2013	02/09/2015
C07RP28912	C701-RP28912-CR084	79129.24	35885.15	129.6775	-1.2	-5	-13.8	23/05/2013	02/09/2015
C07RP28913	C701-RP28913-CR084	79120.57	35882.69	133.1888	-2.4	-5	-17	23/05/2013	02/09/2015
C07RP28914	C701-RP28914-CR084	79127.56	35884.67	133.0405	-1.8	-5.5	-14.5	23/05/2013	02/09/2015
C07RP28916	C701-RP28916-CR084	79123.5	35883.51	137.0855	-2.1	-5.8	-16	23/05/2013	02/09/2015
C07RP28917	C701-RP28917-CR084	79129.24	35885.15	137.1336	-1.6	-6	-13.7	23/05/2013	02/09/2015
C07RP28918	C701-RP28918-CR084	79111.35	35890	129.5934	-0.3	-3.6	-15.8	23/05/2013	02/09/2015
C07RP28919	C701-RP28919-CR084	79114.99	35884.65	133.2673	-1.5	-4.7	-17.3	23/05/2013	02/09/2015
C07RP28920	C701-RP28920-CR084	79113.43	35887.04	137.3918	-1.2	-4.5	-16.3	23/05/2013	02/09/2015
C07RP29010	C701-RP29010-CR084	79099.18	35908.87	129.6868	10.3	-19.3	-10.1	23/05/2013	02/09/2015
C07RP29011	C701-RP29011-CR084	79104.31	35900.79	129.9949	1.6	-2.2	-12.5	23/05/2013	02/09/2015
C07RP29012	C701-RP29012-CR084	79107.83	35895.44	129.0503	1	-3.2	-13.9	23/05/2013	02/09/2015
C07RP29013	C701-RP29013-CR084	79113.43	35887.05	129.4548	-1	-3.8	-16.4	23/05/2013	02/09/2015
C07RP29015	C701-RP29015-CR084	79106.36	35897.73	133.0956	1.4	-3.1	-13.4	23/05/2013	02/09/2015
C07RP29016	C701-RP29016-CR084	79109.41	35893.21	133.2448	0.6	-2.4	-14.4	23/05/2013	02/09/2015
C07RP29018	C701-RP29018-CR084	79104.31	35900.77	137.2841	1.7	-2.9	-12.2	23/05/2013	02/09/2015
C07RP29019	C701-RP29019-CR084	79107.83	35895.44	137.2768	0.4	-3.5	-14.4	23/05/2013	02/09/2015
C07RP29020	C701-RP29020-CR084	79111.33	35890	137.5338	-0.8	-4	-15.6	23/05/2013	02/09/2015
C07RP31413	C701-RP31413-CR084	79087.36	35881.21	135.451	-12	-20	-27.4	23/05/2013	02/09/2015
C07RP31512	C701-RP31512-CR084	79084.41	35888.71	133.6602	-13.6	-13.4	-59.6	23/05/2013	02/09/2015
C07RP31513	C701-RP31513-CR084	79081.32	35863.2	139.4078	-17.2	-17.1	-52.6	23/05/2013	02/09/2015
C07RP31611	C701-RP31611-CR084	79081.05	35863.59	127.6454	-23.1	-6.9	-50.9	23/05/2013	02/09/2015
C07RP31612	C701-RP31612-CR084	79079.74	35865.86	133.3454	-14.9	-12	-46	23/05/2013	02/09/2015
C07RP31613	C701-RP31613-CR084	79078.26	35868.09	137.7025	-14.3	-14.4	-39.8	23/05/2013	02/09/2015
C07RP31614	C701-RP31614-CR084	79081.07	35863.55	137.6397	-15.7	-17.7	-52.8	23/05/2013	02/09/2015
C07RP31710	C701-RP31710-CR084	79083	35878.34	129.0971	-0.3	-10.4	-29.7	23/05/2013	02/09/2015
C07RP31711	C701-RP31711-CR084	79078.8	35875.56	133.6852	-3.9	-11.3	-32.5	23/05/2013	02/09/2015
C07RP31712	C701-RP31712-CR084	79083	35878.34	138.3965	-12.7	-17.8	-35.2	23/05/2013	02/09/2015
C07RP31715	C701-RP31715-CR084	79076.61	35870.6	133.7049	-9.2	-9.1	-37.8	23/05/2013	02/09/2015
C07RP31716	C701-RP31716-CR084	79075.35	35872.49	138.2395	-7.8	-12.6	-35.8	23/05/2013	02/09/2015
C07RP31717	C701-RP31717-CR084	79078	35868.49	138.177	-11.7	-15	-39.8	23/05/2013	02/09/2015
C07RP00208	C300-RP700338	79033.54	35869.83	134.8779	0.9	-19.9	-12	23/05/2013	02/09/2015
C07RP00211	C300-RP700341	79028.85	35866.68	136.5335	3.8	-22.9	-15.3	23/05/2013	02/09/2015
C07RP00214	C300-RP700344	79028.5	35866.45	136.2554	2.1	-22.4	-15.7	23/05/2013	02/09/2015
C07RP00215	C300-RP700345	79024.67	35863.94	135.9349	2.6	-21.5	-19	23/05/2013	02/09/2015
C07RP00216	C300-RP700346	79024.28	35863.77	136.0116	2.3	-21.2	-19.1	23/05/2013	02/09/2015
C07RP00236	C300-RP700366	78996.5	35861.6	136.4137	-1.5	-20.6	-21.2	23/05/2013	02/09/2015
C07RP00238	C300-RP700368	78993.99	35866.97	136.4656	-2.1	-21	-13.5	23/05/2013	02/09/2015
C07RP00169	C300-RP700715	78992.32	35801.55	125.5766	-6.5	-5.4	-50.6	23/05/2013	02/09/2015
C07RP00170	C300-RP700716	78988.2	35804.71	125.5457	-10.8	-3.7	-45.9	23/05/2013	02/09/2015
C07RP00172	C300-RP700717	78983.25	35808.47	125.7455	-15.8	-6.4	-41.3	23/05/2013	02/09/2015
C07RP23312	C701-RP23312-CR084	78997.25	35812.92	131.5338	-8.4	-8.8	-24.2	23/05/2013	02/09/2015
C07RP23513	C701-RP23513-CR084	79002.84	35808.61	131.537	-9.2	-8.8	-32.3	23/05/2013	02/09/2015
C07RP24011	C701-RP24011-CR084	79034.41	35785.02	134.6197	-2.7	16.9	-10.7	23/05/2013	02/09/2015
C07RP24012	C701-RP24012-CR084	79039.89	35780.05	134.6693	-2.6	14.8	-6.6	23/05/2013	02/09/2015
C07RP24111	C701-RP24111-CR084	79042.09	35778.07	134.9302	-2.4	15.6	-5	23/05/2013	02/09/2015
C07RP24317	C701-RP24317-CR084	79043.26	35778.09	134.9039	-2.4	15.2	-5	23/05/2013	02/09/2015
C07RP24318	C701-RP24318-CR084	79046.45	35774.31	134.7199	-2.5	14.6	-2.6	23/05/2013	02/09/2015
C07RP24319	C701-RP24319-CR084	79051.17	35775.53	134.9551	-2.6	17	-2.5	23/05/2013	02/09/2015
C07RP24721	C701-RP24721-CR084	79065.45	35783.54	132.1989	-5.4	21	-15.7	23/05/2013	02/09/2015
C07RP24723	C701-RP24723-CR084	79059.47	35790.52	131.3098	-5.5	20.4	-21.7	23/05/2013	02/09/2015
C07RP24726	C701-RP24726-CR084	79065.49	35783.49	139.171	-5.8	27.9	-15	23/05/2013	02/09/2015
C07RP00173	C300-RP700879	78979.11	35811.58	125.8358	-14.6	-17.7	-37.1	23/05/2013	02/09/2015
C07RP00304	C300-RP701025	79014.62	35829.18	137.5102	13.8	-17.9	-25.6	23/05/2013	02/09/2015
C07RP00342	C300-RP701180	78991.13	35870.05	136.2443	-1.8	-19.4	-8.8	23/05/2013	02/09/2015
C07RP00349	C300-RP701187	79032.92	35869.39	136.5555	1	-22.4	-13.1	23/05/2013	02/09/2015
C07RP24613	C701-RP24613-CR084	79031.66	35808.33	127.6858	2.7	7.7	-32.9	23/05/2013	27/01/2014
C07RP24616	C701-RP24616-CR084	79029.04	35810.63	131.2144	-0.2	8.4	-30.9	23/05/2013	27/01/2014
C07RP24617	C701-RP24617-CR084	79018.99	35818.92	131.1832	-8.1	-2.1	-19.5	23/05/2013	27/01/2014
C07RP24731	C701-RP24731-CR084	79046.63	35807.62	124.4326	3.8	7.4	-31.3	23/05/2013	27/01/2014
C07RP24733	C701-RP24733-CR084	79041.11	35804.89	129.4703	4.4	9.9	-30.1	23/05/2013	27/01/2014
C07RP24915	C701-RP24915-CR084	79053.95	35814.25	137.9905	11.8	1.4	-35	23/05/2013	27/01/2014
C07RP24916	C701-RP24916-CR084	79051.65	35817.78	140.3147	11.9	0.6	-31.5	23/05/2013	27/01/2014
C07RP24917	C701-RP24917-CR084	79055	35812.61	140.7025	13.2	1.4	-35.5	23/05/2013	27/01/2014
C07RP00274	C300-RP700983	79109.43	35777.91	126.4479	-1.1	4.2	0.1	23/05/2013	02/01/2014



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
C07RP00285	C300-RP701003	79086.52	35770.3	124.6505	0.4	1.9	-0.5	23/05/2013	02/01/2014
C07RP27011	C701-RP27011-CR084	79119.38	35803.04	132.7393	-6	-1.5	-42.8	23/05/2013	27/10/2015
C07RP27012	C701-RP27012-CR084	79117.54	35807.15	137.1027	-4.1	-0.6	-48.7	23/05/2013	27/10/2015
C07RP27110	C701-RP27110-CR084	79110.67	35817.76	126.927	-10.6	-1.4	-61.1	23/05/2013	27/10/2015
C07RP27111	C701-RP27111-CR084	79114.3	35812.12	128.5544	-2.9	-1.4	-57.6	23/05/2013	27/10/2015
C07RP27115	C701-RP27115-CR084	79110.61	35817.72	134.1109	-9	-8.5	-60.3	23/05/2013	27/10/2015
C07RP27117	C701-RP27117-CR084	79117.04	35807.9	134.3694	-3	-3	-49.1	23/05/2013	27/10/2015
C07RP27210	C701-RP27210-CR084	79101.9	35830.98	130.2492	-18.3	-13.8	-58	23/05/2013	27/10/2015
C07RP27211	C701-RP27211-CR084	79105.7	35825.06	130.34	-13.2	-10.9	-56.5	23/05/2013	27/10/2015
C07RP27212	C701-RP27212-CR084	79110.25	35817.95	130.296	-7.6	-7.3	-61.2	23/05/2013	27/10/2015
C07RP27213	C701-RP27213-CR084	79103.75	35828.37	137.0267	-22.6	-19.1	-57	23/05/2013	27/10/2015
C07RP27214	C701-RP27214-CR084	79107.65	35822.12	137.06	-15.9	-14.7	-56.9	23/05/2013	27/10/2015
C07RP27215	C701-RP27215-CR084	79102.12	35831.02	139.1129	-28.1	-23.3	-56.5	23/05/2013	27/10/2015
C07RP27216	C701-RP27216-CR084	79106.12	35824.49	140.0271	-20.6	-19.6	-56.6	23/05/2013	27/10/2015
C07RP27217	C701-RP27217-CR084	79110.29	35818.23	139.0882	-10.2	-12.2	-60.1	23/05/2013	27/10/2015
C07RP27310	C701-RP27310-CR084	79098.36	35836.63	127.0955	-13.9	-9.6	-63.4	23/05/2013	27/10/2015
C07RP27311	C701-RP27311-CR084	79101.76	35831.5	127.2656	-16.2	-11.7	-57.5	23/05/2013	27/10/2015
C07RP27312	C701-RP27312-CR084	79100.25	35833.87	130.0038	-18.5	-13.6	-61.1	23/05/2013	27/10/2015
C07RP27313	C701-RP27313-CR084	79098.31	35836.57	136.7868	-23.8	-18.3	-62.9	23/05/2013	27/10/2015
C07RP27410	C701-RP27410-CR084	79091.01	35847.84	128.3026	-13.5	-9.4	-68.2	23/05/2013	27/10/2015
C07RP27411	C701-RP27411-CR084	79097.72	35837.38	127.2325	-14	-9.9	-64.5	23/05/2013	27/10/2015
C07RP27412	C701-RP27412-CR084	79094.19	35843.34	133.1835	-17.9	-14.2	-66.2	23/05/2013	27/10/2015
C07RP27413	C701-RP27413-CR084	79091.23	35847.9	135.7738	-18.9	-15.8	-68.1	23/05/2013	27/10/2015
C07RP27414	C701-RP27414-CR084	79097.9	35837.19	135.7681	-22.8	-17.5	-63	23/05/2013	27/10/2015
C07RP27510	C701-RP27510-CR084	79086.09	35855.76	129.3429	-13.3	-10.4	-63.9	23/05/2013	27/10/2015
C07RP27511	C701-RP27511-CR084	79090.92	35848.3	129.8795	-14.7	-10.9	-67.6	23/05/2013	27/10/2015
C07RP27512	C701-RP27512-CR084	79088.54	35852.09	133.5197	-16.5	-13.9	-66.4	23/05/2013	27/10/2015
C07RP27513	C701-RP27513-CR084	79086.19	35855.87	139.0597	-18.5	-18.9	-63.4	23/05/2013	27/10/2015
C07RP27514	C701-RP27514-CR084	79090.89	35848.33	136.2962	-18.4	-15.4	-67.8	23/05/2013	27/10/2015
C07RP28117	C701-RP28117-CR084	79095.37	35886.47	129.3105	-1.2	-13.5	-12.8	23/05/2013	27/10/2015
C07RP28118	C701-RP28118-CR084	79087.93	35881.58	129.2309	-3.1	-12.3	-20.4	23/05/2013	27/10/2015
C07RP28119	C701-RP28119-CR084	79098.63	35888.61	131.0799	-0.7	-16	-10.8	23/05/2013	27/10/2015
C07RP28120	C701-RP28120-CR084	79091.42	35883.86	131.2057	-1.8	-15.4	-15.6	23/05/2013	27/10/2015
C07RP31410	C701-RP31410-CR084	79087.37	35881.22	129.0132	-3.1	-11.5	-21.3	23/05/2013	27/10/2015
C07RP31411	C701-RP31411-CR084	79083.86	35878.85	128.8265	-1.5	-11.3	-26.8	23/05/2013	27/10/2015
C07RP31412	C701-RP31412-CR084	79085.5	35879.97	131.4261	-2	-13.1	-24	23/05/2013	27/10/2015
C07RP31414	C701-RP31414-CR084	79083.84	35878.85	135.3699	-1.6	-17.8	-26.4	23/05/2013	27/10/2015
C07RP00177	C300-RP700718	79075.26	35783.66	133.2551	1.9	16.1	-11.4	23/05/2013	27/10/2015
C07RP00179	C300-RP700720	79080.07	35785.38	133.246	2.2	17.7	-13.3	23/05/2013	27/10/2015
C07RP00182	C300-RP700723	79080.87	35785.55	132.9308	1.8	17.6	-13.8	23/05/2013	27/10/2015
C07RP00183	C300-RP700724	79086.07	35787.58	132.9285	1.6	18.3	-16.1	23/05/2013	27/10/2015
C07RP00185	C300-RP700726	79086.45	35787.77	129.4019	-2.3	15.7	-18.8	23/05/2013	27/10/2015
C07RP00188	C300-RP700729	79091.67	35789.65	129.3994	1.5	15.5	-18.6	23/05/2013	27/10/2015
C07RP00191	C300-RP700732	79094.96	35790.58	134.6743	1.1	15.7	-18.3	23/05/2013	27/10/2015
C07RP23815	C701-RP23815-CR084	79035.46	35803.08	124.8209	-4.7	12.8	-36	23/05/2013	27/10/2015
C07RP23816	C701-RP23816-CR084	79034.07	35805.98	124.7378	-4.9	13.5	-45.3	23/05/2013	27/10/2015
C07RP23817	C701-RP23817-CR084	79035.89	35802.21	137.6185	-8.8	23.6	-34.8	23/05/2013	27/10/2015
C07RP23818	C701-RP23818-CR084	79033.92	35806.33	137.7493	-10.1	23.3	-38.7	23/05/2013	27/10/2015
C07RP24610	C701-RP24610-CR084	79033.64	35806.7	123.3173	-0.9	12.5	-45.9	23/05/2013	27/10/2015
C07RP24615	C701-RP24615-CR084	79033.62	35806.7	131.4638	-6.7	18.5	-38.6	23/05/2013	27/10/2015
C07RP24712	C701-RP24712-CR084	79058.67	35777.96	132.3442	-1.9	18.7	-5.1	23/05/2013	27/10/2015
C07RP24713	C701-RP24713-CR084	79064.57	35780.09	132.3327	-1.8	19.2	-6.3	23/05/2013	27/10/2015
C07RP24714	C701-RP24714-CR084	79058.78	35778.01	138.0875	-2.6	24.1	-5.1	23/05/2013	27/10/2015
C07RP24715	C701-RP24715-CR084	79064.21	35779.96	138.0778	-2.6	24.5	-6.5	23/05/2013	27/10/2015
C07RP24718	C701-RP24718-CR084	79059.68	35790.43	138.3246	-7.1	26.8	-13.1	23/05/2013	27/10/2015
C07RP24719	C701-RP24719-CR084	79056.38	35793.62	125.0567	-3.9	14.4	-23.7	23/05/2013	27/10/2015
C07RP24724	C701-RP24724-CR084	79054.37	35796.59	128.5586	-5.6	17.7	-21.3	23/05/2013	27/10/2015
C07RP24725	C701-RP24725-CR084	79050.51	35802.33	128.5575	-5.4	17.7	-36.6	23/05/2013	27/10/2015
C07RP24727	C701-RP24727-CR084	79062.47	35788.55	139.2442	-6.2	28.3	-10.3	23/05/2013	27/10/2015
C07RP24730	C701-RP24730-CR084	79052.41	35799.53	134.4701	-5.7	23.9	-26.1	23/05/2013	27/10/2015
C07RP24732	C701-RP24732-CR084	79036.47	35802.61	125.2808	-5	14.3	-42.4	23/05/2013	27/10/2015
C07RP24734	C701-RP24734-CR084	79045.94	35807.29	134.268	-5.9	23.3	-38.3	23/05/2013	27/10/2015
C07RP24735	C701-RP24735-CR084	79036.23	35802.51	132.5434	-5.2	21.3	-35.3	23/05/2013	27/10/2015
C07RP25613	C701-RP25613-CR084	79068.97	35792.67	133.4328	-2.9	18.6	-13.4	23/05/2013	27/10/2015
C07RP25614	C701-RP25614-CR084	79065.13	35790.4	133.3445	-4	19	-10.4	23/05/2013	27/10/2015
C07RP25616	C701-RP25616-CR084	79066.12	35787.92	129.8885	-3.8	15.8	-7.1	23/05/2013	27/10/2015
C07RP25622	C701-RP25622-CR084	79070.33	35782.16	133.1446	1.7	16	-9.5	23/05/2013	27/10/2015
C07RP25623	C701-RP25623-CR084	79074.3	35783.52	133.0992	1.9	15.9	-11.3	23/05/2013	27/10/2015
C07RP00174	C300-RP700766	78968.37	35819.87	128.1686	-9.5	-19.7	-37	23/05/2013	27/10/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
C07RP00005	C300-RP700260	79150.11	35808.32	137.9528	-7.2	20.8	-42.5	23/05/2013	26/10/2015
C07RP31510	C701-RP31510-CR084	79081.25	35863.32	129.4446	-12.7	-7.5	-49.2	23/05/2013	27/10/2015
C07RP24729	C701-RP24729-CR084	79056.08	35794.07	134.6163	-6.3	23.4	-18.1	23/05/2013	27/10/2015
C07RP00002	C300-RP700868	79142.41	35806.01	137.9223	-7.3	19.7	-43.2	23/05/2013	26/10/2015
C07RP00008	C300-RP700870	79160.09	35811.42	138.0287	-7.6	22.3	-45.8	23/05/2013	26/10/2015
C07RP00425	C300-RP701265	79016.76	35832.57	139.3436	10.3	-20.4	-37.1	23/05/2013	27/10/2015
C07RP00053	C300-RP700271	79125.22	35799.76	132.3229	0.6	1	-24.7	07/11/2012	10/03/2013
C07RP25213	C701-RP25213-CR084	79099.03	35807.36	135.8014	-15.2	-13.4	1.2	07/11/2012	10/03/2013
C07RP27015	C701-RP27015-CR084	79125.24	35799.77	132.3593	-2.4	-7.3	3.3	07/11/2012	10/03/2013
D07LP00005	C300-RP700313	79290.68	35826.06	128.8909	0	0	0	07/11/2012	10/07/2015
D07RP00001	C300-RP700314	79219.16	35797.5	137.6344	-5.5	-3.4	-9.2	07/11/2012	02/09/2015
D07RP00002	C300-RP700315	79219.16	35797.45	127.4522	-5.1	-4.9	-9.1	07/11/2012	02/09/2015
D07RP00003	C300-RP700316	79221.6	35798.14	137.635	-5.1	-3.8	-8.7	07/11/2012	02/09/2015
D07RP00004	C300-RP700317	79221.52	35798.14	127.448	-5.4	-5.3	-8.8	07/11/2012	02/09/2015
D07RP00005	C300-RP700318	79223.4	35798.75	130.5863	-5.1	-4.9	-9	07/11/2012	02/09/2015
D07RP00006	C300-RP700319	79225.6	35799.46	127.4296	-5.3	-5.9	-6.7	07/11/2012	10/07/2015
D07RP00007	C300-RP700320	79226.6	35799.01	140.504	-5.6	-5.2	-6.3	07/11/2012	10/07/2015
D07RP00008	C300-RP700321	79226.97	35799.81	127.451	-5.5	-6.5	-6.7	07/11/2012	10/07/2015
D07RP26310	C701-RP26310-CR084	79198.69	35839.54	128.812	-9.6	-5.7	-32.2	07/11/2012	02/09/2015
D07RP26311	C701-RP26311-CR084	79197.04	35844.93	128.7495	-8	-6.4	-27.7	07/11/2012	02/09/2015
D07RP26312	C701-RP26312-CR084	79194.6	35852.73	129.4986	-6	-8.1	-15.5	07/11/2012	02/09/2015
D07RP26313	C701-RP26313-CR084	79197.83	35842.35	132.8039	-8.5	-8.2	-29.6	07/11/2012	02/09/2015
D07RP26314	C701-RP26314-CR084	79196.17	35847.73	132.7864	-6.8	-8	-23.9	07/11/2012	02/09/2015
D07RP26316	C701-RP26316-CR084	79196.84	35844.94	139.2382	-6	-14.4	-26.6	07/11/2012	02/09/2015
D07RP26317	C701-RP26317-CR084	79194.53	35853.13	139.1913	-0.8	-13.7	-15.6	07/11/2012	02/09/2015
D07RP26411	C701-RP26411-CR084	79193.81	35819.34	128.6807	-11.7	-2.6	-30.9	07/11/2012	02/09/2015
D07RP26510	C701-RP26510-CR084	79218.2	35797.05	131.1607	-4.9	-4.4	-9.2	07/11/2012	02/09/2015
D07RP26511	C701-RP26511-CR084	79212.1	35795.16	131.1146	-5.1	-4.3	-9.1	07/11/2012	02/09/2015
D07RP26512	C701-RP26512-CR084	79215.22	35795.88	137.1871	-5.2	-3.1	-9.1	07/11/2012	02/09/2015
D07RP26513	C701-RP26513-CR084	79218.3	35797.08	143.5532	-5.4	-2.3	-9.3	07/11/2012	02/09/2015
D07RP26514	C701-RP26514-CR084	79212.12	35795.16	143.6491	-5.5	-2	-9.2	07/11/2012	02/09/2015
D07RP26516	C701-RP26516-CR084	79210.15	35801.22	137.5314	-5.1	-2.9	-10.6	07/11/2012	02/09/2015
D07RP26517	C701-RP26517-CR084	79201.94	35805.61	131.1147	-3.8	-4.1	-10	07/11/2012	10/07/2015
D07RP26518	C701-RP26518-CR084	79193.92	35803.13	131.1508	-4.4	-3.6	-10	07/11/2012	10/07/2015
D07RP26519	C701-RP26519-CR084	79188.63	35801.5	131.1305	-4.8	-3	-10	07/11/2012	10/07/2015
D07RP26520	C701-RP26520-CR084	79184.53	35800.11	131.0656	-4.8	-2.4	-9.6	07/11/2012	10/07/2015
D07RP26521	C701-RP26521-CR084	79204.62	35806.44	137.9278	-4.4	-3.6	-10	07/11/2012	10/07/2015
D07RP26522	C701-RP26522-CR084	79199.07	35804.71	137.9212	-4.6	-3.4	-10	07/11/2012	10/07/2015
D07RP26523	C701-RP26523-CR084	79191.28	35802.31	137.8518	-4.7	-2.7	-9.8	07/11/2012	10/07/2015
D07RP26524	C701-RP26524-CR084	79185.98	35800.57	137.5933	-5.3	-2	-9.5	07/11/2012	10/07/2015
D07RP26527	C701-RP26527-CR084	79193.97	35803.15	143.5454	-5	-1.9	-10	07/11/2012	10/07/2015
D07RP26528	C701-RP26528-CR084	79188.49	35801.46	143.5876	-5.5	-1.2	-9.4	07/11/2012	10/07/2015
D07RP26529	C701-RP26529-CR084	79184.52	35800.12	143.5376	-5.7	-1	-9.1	07/11/2012	10/07/2015
D07RP26610	C701-RP26610-CR084	79169.19	35814.07	129.5125	-7.7	1.1	-42.1	07/11/2012	02/09/2015
D07RP26618	C701-RP26618-CR084	79169.06	35814.05	137.8516	-10.9	5.5	-41.4	07/11/2012	02/09/2015
D07RP26621	C701-RP26621-CR084	79189.65	35820.31	137.8617	-10	3.9	-33.1	07/11/2012	02/09/2015
D07RP29710	C701-RP29710-CR084	79183.17	36069.92	137.843	-10.2	6.2	-12.1	07/11/2012	02/09/2015
D07RP29810	C701-RP29810-CR084	79181.09	36011.58	132.066	0	0	0	07/11/2012	02/09/2015
D07RP31310	C701-RP31310-CR084	79183.53	35800.01	126.8482	-5.3	-3.3	-10.8	07/11/2012	02/09/2015
D07RP31311	C701-RP31311-CR084	79177.82	35798.22	126.7922	-5.7	-3.7	-10.6	07/11/2012	02/09/2015
D07RP31312	C701-RP31312-CR084	79171.39	35796.2	126.698	-5.1	-3.9	-10.3	07/11/2012	02/09/2015
D07RP31313	C701-RP31313-CR084	79165.43	35794.4	126.571	-5.1	-4.2	-10.3	07/11/2012	02/09/2015
D07RP31314	C701-RP31314-CR084	79159.39	35792.67	126.6408	-4	-5.2	-9.4	07/11/2012	02/09/2015
D07RP31316	C701-RP31316-CR084	79180.99	35799.21	131.1325	-5.8	-2.6	-10.5	07/11/2012	02/09/2015
D07RP31317	C701-RP31317-CR084	79174.95	35797.31	131.1161	-5.9	-3.3	-10.2	07/11/2012	02/09/2015
D07RP31318	C701-RP31318-CR084	79168.59	35795.33	131.1252	-5.4	-3.5	-10.2	07/11/2012	02/09/2015
D07RP31319	C701-RP31319-CR084	79162.45	35793.41	131.1072	-5.8	-3.4	-9.4	07/11/2012	02/09/2015
D07RP31321	C701-RP31321-CR084	79183.13	35799.89	135.6742	-5	-1.4	-9	07/11/2012	15/04/2015
D07RP31322	C701-RP31322-CR084	79177.97	35798.26	135.7869	-5.6	-2.7	-10	07/11/2012	02/09/2015
D07RP31323	C701-RP31323-CR084	79171.38	35796.2	135.5971	-5.4	-3.1	-9.6	07/11/2012	02/09/2015
D07RP31324	C701-RP31324-CR084	79165.4	35794.34	136.0039	-5.7	-3	-9.8	07/11/2012	02/09/2015
D07RP31325	C701-RP31325-CR084	79159.25	35792.42	135.6771	-5.9	-2.5	-9.6	07/11/2012	02/09/2015
D07RP00316	C300-RP700322	79178.66	35849.26	127.708	2.5	-9.3	-10	15/11/2012	02/09/2015
D07RP00317	C300-RP700323	79176.53	35848.58	127.7203	2.8	-9.8	-8.7	15/11/2012	02/09/2015
D07RP00318	C300-RP700324	79172.04	35847.29	127.2048	2.8	-9.7	-8.1	15/11/2012	02/09/2015
D07RP00319	C300-RP700325	79168.1	35846.13	127.1555	4.6	-6.2	-15.7	15/11/2012	02/09/2015
D07RP00320	C300-RP700326	79162.69	35844.51	127.1276	2.1	-9.7	-9.3	15/11/2012	02/09/2015
D07RP00321	C300-RP700327	79158.81	35843.34	128.2423	2.4	-11.3	-8.9	15/11/2012	02/09/2015
D07RP00322	C300-RP700328	79154.31	35842.02	128.1586	1.6	-11.7	-11.3	15/11/2012	02/09/2015





BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
D07RP00323	C300-RP700329	79151	35841.05	128.2307	-1.4	-8.1	-11.8	16/11/2012	02/09/2015
D07RP00324	C300-RP700330	79146.12	35839.66	129.1582	5.9	-13.8	-13.6	15/11/2012	02/09/2015
D07LP00002	C300-RP700397	79285.7	35729.73	124.901	0	0	0	07/11/2012	02/09/2015
D07LP00001	C300-RP700398	79278.6	35767.3	146.015	0	0	0	07/11/2012	02/09/2015
D07RP31110	C701-RP31110-CR084	79289	35832.01	140.469	-0.2	-0.5	-13	07/11/2012	10/07/2015
D07RP26612	C701-RP26612-CR084	79180.53	35817.55	129.463	-7.7	3.2	-36.3	07/11/2012	02/09/2015
D07RP26620	C701-RP26620-CR084	79182.47	35818.14	137.8621	-9.3	5.1	-35.2	07/11/2012	02/09/2015
D07RP26617	C701-RP26617-CR084	79186.48	35817.31	131.6886	-7.6	1.6	-32.5	07/11/2012	02/09/2015
D07RP26613	C701-RP26613-CR084	79186.64	35817.41	129.4146	-7.2	1.1	-34.3	07/11/2012	02/09/2015
D07RP26415	C701-RP26415-CR084	79190.39	35820.59	134.4941	-7.6	2.2	-33.6	07/11/2012	02/09/2015
D07RP26410	C701-RP26410-CR084	79190.52	35820.58	129.7913	-7.3	0.5	-34.1	07/11/2012	02/09/2015
D07RP26416	C701-RP26416-CR084	79194.02	35819.4	134.0614	-10.2	-1.9	-32.5	07/11/2012	02/09/2015
D07RP26417	C701-RP26417-CR084	79198.02	35820.6	134.4998	-8.8	-3.8	-27.7	07/11/2012	10/07/2015
D07RP26419	C701-RP26419-CR084	79202.47	35824.25	133.9191	-5.1	-2.6	-30.2	07/11/2012	02/09/2015
D07RP26420	C701-RP26420-CR084	79202.78	35825.26	128.5938	-3.9	-1.1	-31	07/11/2012	02/09/2015
D07RP26425	C701-RP26425-CR084	79202.7	35825.44	133.3418	-4.8	-2.6	-28.7	07/11/2012	02/09/2015
D07RP26423	C701-RP26423-CR084	79201.92	35828.24	131.3118	-4.4	-2	-31.3	07/11/2012	02/09/2015
D07RP26426	C701-RP26426-CR084	79201.09	35830.87	133.2597	-4.6	-1.9	-32.2	07/11/2012	02/09/2015
D07RP26424	C701-RP26424-CR084	79200.47	35832.93	132.1063	-5.7	-2.1	-31.7	07/11/2012	02/09/2015
D07RP26422	C701-RP26422-CR084	79198.94	35838.33	128.6598	-8.4	-4.1	-34.2	07/11/2012	02/09/2015
D07RP26427	C701-RP26427-CR084	79199.08	35838.29	132.7971	-8.2	-2.7	-33.1	07/11/2012	02/09/2015
D07RP28410	C701-RP28410-CR084	79188.72	35911.01	133.5857	-10.1	6.1	-13.1	07/11/2012	02/09/2015
D07RP26619	C701-RP26619-CR084	79175.39	35815.95	137.864	-9.4	5.6	-37.6	07/11/2012	02/09/2015
D07RP26611	C701-RP26611-CR084	79175.78	35816.04	129.5218	-6.7	2.3	-37.5	07/11/2012	02/09/2015
D07RP26616	C701-RP26616-CR084	79179.81	35817.28	134.0403	-8.3	4.6	-36.6	07/11/2012	02/09/2015
D07RP26614	C701-RP26614-CR084	79189.26	35820.09	129.4961	-7.9	0.7	-33.2	07/11/2012	02/09/2015
D07RP26418	C701-RP26418-CR084	79198.06	35822.88	134.1886	-5.6	-1.8	-30	07/11/2012	02/09/2015
D07RP26421	C701-RP26421-CR084	79201.19	35830.66	128.7086	-4.6	-1.8	-32.1	07/11/2012	02/09/2015
D07RP26615	C701-RP26615-CR084	79173.23	35815.29	134.0223	-8.4	3.9	-38.9	07/11/2012	02/09/2015
D07RP26413	C701-RP26413-CR084	79198.17	35822.91	128.8486	-7.4	-4.6	-26.1	07/11/2012	10/07/2015
D07RP26414	C701-RP26414-CR084	79201.66	35823.98	128.7648	-5.2	-1.8	-29.4	07/11/2012	02/09/2015
D07RP26412	C701-RP26412-CR084	79198.06	35820.64	128.6762	-6.7	-3	-29.6	18/11/2012	02/09/2015
D07RP28310	C701-RP28310-CR084	79199.14	35914.18	132.192	6.7	0.8	-15.1	18/11/2012	02/09/2015
D07RP28311	C701-RP28311-CR084	79210.61	35916.7	132.1161	6.2	2	-14.6	18/11/2012	02/09/2015
D07RP28312	C701-RP28312-CR084	79201.98	35915.01	136.9913	7.3	1.5	-14.9	18/11/2012	02/09/2015
D07RP28313	C701-RP28313-CR084	79198.91	35914.09	142.2313	7.5	-0.1	-14.7	18/11/2012	02/09/2015
D07RP28314	C701-RP28314-CR084	79210.82	35916.75	141.5622	8.7	3.5	-15.5	18/11/2012	02/09/2015
D07RP28411	C701-RP28411-CR084	79197.83	35913.78	133.6107	7.1	0.5	-14.8	18/11/2012	02/09/2015
D07RP28413	C701-RP28413-CR084	79188.89	35911.05	145.2159	8	-2.4	-15.1	18/11/2012	02/09/2015
D07RP28414	C701-RP28414-CR084	79197.77	35913.74	145.2165	7.9	-0.5	-14.5	18/11/2012	02/09/2015
D07RP28610	C701-RP28610-CR084	79160.79	35894.07	130.1949	8.8	-4.4	-15.8	18/11/2012	02/09/2015
D07RP28611	C701-RP28611-CR084	79170.79	35897.1	130.1801	9	-2.8	-16.7	18/11/2012	02/09/2015
D07RP28612	C701-RP28612-CR084	79178.31	35899.37	130.1752	9	-2.5	-17	18/11/2012	02/09/2015
D07RP28613	C701-RP28613-CR084	79165.79	35895.56	136.1583	8.9	-4	-16.4	18/11/2012	02/09/2015
D07RP28614	C701-RP28614-CR084	79173.2	35897.8	136.2285	9	-3.3	-16.7	18/11/2012	02/09/2015
D07RP28615	C701-RP28615-CR084	79160.83	35894.05	140.8073	8.8	-4.9	-15.8	18/11/2012	02/09/2015
D07RP28616	C701-RP28616-CR084	79170.71	35897.05	140.7175	9.1	-3.8	-16.1	18/11/2012	02/09/2015
D07RP28619	C701-RP28619-CR084	79177.96	35906.94	141.1389	8	-2.4	-16	18/11/2012	02/09/2015
D07RP28710	C701-RP28710-CR084	79150.07	35890.9	131.1122	8.3	-4.7	-15.7	18/11/2012	02/09/2015
D07RP28711	C701-RP28711-CR084	79160.02	35893.77	131.0327	9.2	-4.6	-15.9	18/11/2012	02/09/2015
D07RP28713	C701-RP28713-CR084	79160.03	35893.76	143.8577	8.6	-5.4	-15.5	18/11/2012	02/09/2015
D07RP28811	C701-RP28811-CR084	79149.86	35890.75	132.7699	9.2	-5.9	-14.9	18/11/2012	02/09/2015
D07RP28813	C701-RP28813-CR084	79149.85	35890.74	145.2694	8.9	-7.8	-14.2	18/11/2012	02/09/2015
D07RP28617	C701-RP28617-CR084	79178.31	35899.35	140.6612	9.2	-4	-16.4	18/11/2012	02/09/2015
D07RP28618	C701-RP28618-CR084	79178.07	35906.64	129.5123	8	-1.7	-16.9	18/11/2012	02/09/2015
D07RP00331	C300-RP701028	79187.31	35910.57	142.5809	11.1	-5.1	0.6	05/12/2012	25/08/2015
D07RP00332	C300-RP700738	79180.17	35908.38	136.5188	0.1	-10.7	-8.4	05/12/2012	31/08/2015
D07RP00334	C300-RP700740	79178.2	35907.82	133.1789	-1.7	-9.1	-4.4	06/12/2012	02/09/2015
D07RP00335	C300-RP700741	79182.84	35909.2	133.1776	1.6	-7.1	-8.2	05/12/2012	02/09/2015
D07RP00337	C300-RP700742	79295.96	35834.35	135.4185	1.7	5.4	-10.7	05/12/2012	10/07/2015
D07RP00338	C300-RP700743	79295.96	35834.4	128.9615	1.5	3.3	-11	05/12/2012	10/07/2015
D07RP00339	C300-RP700744	79289.07	35831.34	141.3884	2.2	7.3	-7.2	05/12/2012	10/07/2015
D07RP00340	C300-RP700745	79288.88	35831.22	135.4963	1.2	4.7	-7.7	05/12/2012	10/07/2015
D07RP00341	C300-RP700746	79288.9	35830.98	128.9328	0.2	2.7	-7.9	05/12/2012	10/07/2015
D07RP00342	C300-RP700747	79290.95	35825.46	141.3836	1.9	5.9	-5.5	05/12/2012	10/07/2015
D07RP00343	C300-RP700748	79290.77	35825.35	135.4756	1.7	5.6	-5.6	05/12/2012	10/07/2015
D07RP00345	C300-RP700749	79292.59	35820.43	141.382	2.5	5.6	-3.6	05/12/2012	10/07/2015
D07RP00346	C300-RP700750	79292.45	35820.12	135.4491	1.8	4.5	-3.8	05/12/2012	10/07/2015
D07RP7038	C300-RP700883	79108.9	35850.55	130.4964	-14.2	-7.6	-23.5	30/08/2013	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z [m]	First Reading Date	Last Reading Date
D07RP00330	C300-RP700947	79182.88	35909.2	142.6202	-2.4	-7.3	0.5	13/01/2013	16/05/2015
D07RP00347	C300-RP700949	79292.43	35820.2	128.9125	-0.6	1.6	-2.8	26/02/2013	10/07/2015
D07RP00349	C300-RP700978	79167.07	36060.88	145.9883	0.5	1.1	0	13/01/2013	02/09/2015
D07RP00350	C300-RP701052	79243.5	35782.82	145.7757	0.6	2.6	1.6	25/01/2013	02/09/2015
D07RP00351	C300-RP701053	79243.74	35783.72	136.8388	0.7	1.9	0.8	25/01/2013	02/09/2015
D07RP00352	C300-RP701054	79243.76	35783.66	127.5762	0.8	1.2	0.3	25/01/2013	02/09/2015
D07RP00354	C300-RP701056	79239.74	35793.34	138.2744	0.6	2.8	0.5	25/01/2013	02/09/2015
D07RP00355	C300-RP701057	79239.75	35793.33	127.4715	0.6	1.8	0	25/01/2013	02/09/2015
D07RP00356	C300-RP701058	79235.49	35801.86	145.7063	-2.8	2.9	1	25/01/2013	10/07/2015
D07RP00357	C300-RP701059	79235.92	35802	139.8612	-2.2	2.7	0.9	25/01/2013	10/07/2015
D07RP00358	C300-RP701060	79235.12	35802.41	127.4839	-2.2	1.5	-0.1	25/01/2013	10/07/2015
D07RP00359	C300-RP701061	79291.24	35819.74	145.7678	-0.7	8.7	-6.2	04/03/2013	10/07/2015
D07RP00360	C300-RP701062	79291.23	35819.72	136.6098	-1.2	4.9	-5.1	04/03/2013	10/07/2015
D07RP00361	C300-RP701063	79291.23	35819.75	130.4995	-0.9	4.8	-5.2	04/03/2013	10/07/2015
D07RP00362	C300-RP701064	79283.94	35817.47	145.7594	-1.3	7.8	-3.7	04/03/2013	10/07/2015
D07RP00363	C300-RP701065	79283.78	35817.73	136.5266	-1.5	3.7	-3.5	04/03/2013	10/07/2015
D07RP00364	C300-RP701066	79283.83	35817.88	130.4532	-1.1	3.1	-4.4	04/03/2013	10/07/2015
D07RP00365	C300-RP701067	79279.03	35815.97	145.7574	-2.3	6.8	-1.9	04/03/2013	10/07/2015
D07RP00366	C300-RP701068	79278.97	35816.24	136.5244	-1.7	4	-3.6	04/03/2013	10/07/2015
D07RP00367	C300-RP701069	79279.01	35816.4	130.4462	-1.1	3.3	-3.6	04/03/2013	10/07/2015
D07RP00368	C300-RP701070	79270.12	35813.26	145.7596	-3.7	6.8	-2.6	04/03/2013	10/07/2015
D07RP00369	C300-RP701071	79270.12	35813.23	136.4497	-2	3.7	-3.2	04/03/2013	10/07/2015
D07RP00370	C300-RP701072	79270.04	35813.23	130.4602	-2.1	3.5	-3.7	04/03/2013	10/07/2015
D07RP00371	C300-RP701073	79208.27	35928.08	141.5643	0.1	-5.4	1.7	25/01/2013	02/09/2015
D07RP00372	C300-RP701074	79208.28	35928.13	132.0901	-0.1	-5.3	1.5	25/01/2013	02/09/2015
D07RP00378	C300-RP701080	79198.44	35960.95	132.0113	1.2	-3.7	1.7	25/01/2013	02/09/2015
D07RP00381	C300-RP701083	79207.77	35940.39	0	0	0	0	10/03/2013	10/03/2013
D07RP00387	C300-RP701089	79212.2	35962.74	130.022	0.1	-3.4	1.6	25/01/2013	02/09/2015
D07RP00401	C300-RP701103	79234.27	35924.64	130.0489	-0.4	-1	2	25/01/2013	25/04/2014
D07RP00404	C300-RP701106	79243.76	35927.54	130.0529	1.2	-1.6	1.9	25/01/2013	25/04/2014
D07RP00405	C300-RP701107	79178.56	35907.87	142.4177	-9.9	-13.4	-3.6	04/03/2013	31/08/2015
D07RP00411	C300-RP701113	79301.31	35918.92	131.1954	2	8.9	-2.8	07/06/2013	20/07/2014
D07RP00412	C300-RP701114	79296.42	35917.46	144.5059	0.8	-2.9	1.2	25/01/2013	25/04/2014
D07RP00413	C300-RP701115	79296.43	35917.47	131.2154	-0.8	2.7	-1.2	07/06/2013	18/08/2014
D07RP00414	C300-RP701116	79289.6	35915.43	144.4755	1.2	-3.2	1.7	25/01/2013	25/04/2014
D07RP00415	C300-RP701117	79289.6	35915.45	131.1587	1.5	7.8	-3	07/06/2013	20/07/2014
D07RP00417	C300-RP701119	79284.74	35913.99	131.1865	-0.8	-0.7	-2.1	07/06/2013	18/08/2014
D07RP00419	C300-RP701121	79278.89	35912.26	131.2201	1.6	6.8	-3.1	07/06/2013	20/07/2014
D07RP00421	C300-RP701123	79268.68	35909.23	131.1961	2.9	0.1	-1.8	07/06/2013	04/04/2014
D07RP00423	C300-RP701125	79268.61	35900.84	131.2683	2.2	6.1	-5.7	07/06/2013	20/07/2014
D07RP00424	C300-RP701126	79270.63	35894	144.358	2	3	-6.6	07/06/2013	20/07/2014
D07RP00425	C300-RP701127	79270.63	35894.02	131.246	2.1	6	-6.5	07/06/2013	20/07/2014
D07RP00426	C300-RP701128	79272.37	35888.16	144.3615	3.3	3.8	-7.5	07/06/2013	20/07/2014
D07RP00427	C300-RP701129	79272.67	35887.18	131.197	2.8	5.4	-8	07/06/2013	20/07/2014
D07RP00428	C300-RP701130	79274.1	35882.31	144.3808	-2.7	-6.6	-3.3	04/03/2013	25/07/2014
D07RP00429	C300-RP701131	79274.4	35881.33	131.1609	1.8	-0.7	-6.8	07/06/2013	23/04/2014
D07RP00430	C300-RP701132	79275.98	35875.98	144.3152	1.3	-8.8	-6.2	25/01/2013	23/07/2014
D07RP00431	C300-RP701133	79275.98	35875.98	131.1731	-0.3	-4.9	-8.7	25/01/2013	31/07/2014
D07RP00432	C300-RP701134	79276.54	35874.15	143.5752	-0.8	2.7	-17.4	25/01/2013	02/09/2015
D07RP00433	C300-RP701135	79280.43	35861.02	143.5854	-1.1	0.3	-10.8	25/01/2013	10/07/2015
D07RP00434	C300-RP701136	79283.77	35849.71	143.5807	-2.1	-0.4	-10.7	25/01/2013	10/07/2015
D07RP00435	C300-RP701137	79172.26	35723.42	131.7216	0	0	0	22/02/2013	10/07/2015
D07RP00451	C300-RP701229	79225.62	35799.47	137.6216	-0.8	4	-1.7	05/03/2013	10/07/2015
D07RP00452	C300-RP701230	79226.97	35799.8	136.4087	-2	3.1	-1.6	05/03/2013	10/07/2015
D07RP7001	C300-RP707001	79191.4	35852.84	144.1423	1.8	4.9	-14.7	05/03/2013	02/09/2015
D07RP7003	C300-RP707003	79192.7	35853.56	139.2374	-1.2	10.9	-15.7	05/03/2013	02/09/2015
D07RP7004	C300-RP707004	79187.89	35852.1	139.2419	-2.4	11.4	-13.4	05/03/2013	02/09/2015
D07RP7005	C300-RP707005	79184.61	35851.04	139.2755	-2.1	12.2	-12.4	05/03/2013	02/09/2015
D07RP7006	C300-RP707006	79181.09	35850.08	139.1751	-3.3	12.1	-10.5	05/03/2013	02/09/2015
D07RP7007	C300-RP707007	79192.72	35853.54	132.4905	-5.6	15.8	-16.2	05/03/2013	02/09/2015
D07RP7008	C300-RP707008	79187.68	35852.02	132.4889	-6.7	16.1	-14.4	05/03/2013	02/09/2015
D07RP7009	C300-RP707009	79184.61	35851.14	132.4991	-6.3	15.8	-12.9	05/03/2013	02/09/2015
D07RP7010	C300-RP707010	79181.06	35850.07	131.4908	-6.9	14.6	-11.1	05/03/2013	02/09/2015
D07RP7014	C300-RP707014	79179.54	35840.26	139.1409	-8.4	10	-29.1	05/03/2013	02/09/2015
D07RP7015	C300-RP707015	79177.96	35845.29	136.4484	-6.9	15.2	-21	05/03/2013	02/09/2015
D07RP7016	C300-RP707016	79179.51	35840.31	136.2978	-8.9	12.8	-30	05/03/2013	02/09/2015
D07RP7017	C300-RP707017	79145.79	35839.44	131.02	2.2	9.2	-19.2	05/03/2013	02/09/2015
D07RP7018	C300-RP707018	79139.72	35837.53	130.2177	-5	12.2	-19.7	05/03/2013	02/09/2015
D07RP7019	C701-RP26321-CR084	79140.11	35836.4	129.2452	-5.2	15.2	-24.7	05/03/2013	02/09/2015



BFK ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
D07RP7020	C701-RP26322-CR084	79142.31	35829.78	129.1552	-7.8	14.9	-47.4	05/03/2013	02/09/2015
D07RP7021	C701-RP26326-CR084	79142.34	35829.4	132.6308	-7.2	11.2	-48.4	05/03/2013	02/09/2015
D07RP7022	C701-RP26325-CR084	79137.79	35827.93	128.3866	-9.1	14.6	-49.9	05/03/2013	02/09/2015
D07RP7023	C300-RP707023	79133	35826.37	131.627	-9.6	13.4	-50.3	05/03/2013	02/09/2015
D07RP7024	C701-RP26324-CR084	79132.51	35826.23	125.7786	-11.9	17.7	-50.7	05/03/2013	02/09/2015
D07RP7025	C300-RP707025	79131.68	35826.82	130.2303	-12.1	-2.6	-49.2	05/03/2013	02/09/2015
D07RP7026	C701-RP27218-CR084	79131.43	35827.32	126.3199	-12.2	1.4	-49.3	05/03/2013	02/09/2015
D07RP7027	C701-RP27219-CR084	79129.43	35831.61	126.1627	-8.6	-0.4	-38	05/03/2013	02/09/2015
D07RP7028	C300-RP707028	79123.96	35823.92	136.6466	-13.3	-15	-49.7	05/03/2013	02/09/2015
D07RP7029	C300-RP707029	79124.03	35824.18	131.1722	-10.1	-13.9	-50.6	05/03/2013	02/09/2015
D07RP7030	C300-RP707030	79120.3	35829.28	136.7961	-19.1	-3	-36.5	05/03/2013	02/09/2015
D07RP7031	C300-RP707031	79115.51	35837.3	136.5159	-29.1	-7.8	-26	05/03/2013	02/09/2015
D07RP7032	C300-RP707032	79120.26	35829.2	133.1418	-16.4	-2.3	-36.8	05/03/2013	02/09/2015
D07RP7033	C300-RP707033	79115.38	35837.24	133.0428	-23.7	-7.1	-26.3	05/03/2013	02/09/2015
D07RP7034	C300-RP707034	79117.1	35834.59	129.4245	-17.3	-2.3	-26.5	05/03/2013	02/09/2015
D07RP7035	C300-RP707035	79112.29	35843.29	129.8189	-14.5	-13.5	-35.9	05/03/2013	02/09/2015
D07RP7036	C300-RP700881	79110.86	35845.64	136.5085	-19.5	-11.2	-24.9	05/03/2013	02/09/2015
D07RP7037	C300-RP700882	79108.9	35850.5	136.7733	-18.3	-14.2	-23.5	05/03/2013	02/09/2015
D07RP00348	C300-RP700977	79181.5	36010.04	148.9684	0	0	0	05/03/2013	02/09/2015
D07RP00373	C300-RP701075	79206.11	35935.33	138.4329	-0.9	-6.5	2.7	05/03/2013	02/09/2015
D07RP00374	C300-RP701076	79203.77	35942.83	141.5645	-0.3	-5.8	3.2	05/03/2013	02/09/2015
D07RP00375	C300-RP701077	79203.87	35942.74	132.2673	-0.5	-5.4	2.3	05/03/2013	02/09/2015
D07RP00379	C300-RP701081	79196.12	35967.72	135.7084	2.6	-3	3.2	05/03/2013	02/09/2015
D07RP00380	C300-RP701082	79195.55	35969.86	141.6117	0.8	-3.7	3.9	05/03/2013	02/09/2015
D07RP00385	C300-RP701087	79212.64	35961.65	144.2925	1.3	-2.4	3.8	05/03/2013	02/09/2015
D07RP00386	C300-RP701088	79212.67	35961.62	138.209	0.5	-3.2	3.5	05/03/2013	02/09/2015
D07RP00389	C300-RP701091	79215.86	35951.55	130.1947	-0.5	-4.1	3.4	05/03/2013	02/09/2015
D07RP00390	C300-RP701092	79216.63	35947.54	141.9365	0.3	-4.5	4.3	05/03/2013	02/09/2015
D07RP00391	C300-RP701093	79216.69	35947.53	135.9143	1.3	-3.7	4.1	05/03/2013	02/09/2015
D07RP00392	C300-RP701094	79217.39	35947.95	130.1201	-0.6	-4.7	2.9	05/03/2013	02/09/2015
D07RP00393	C300-RP701095	79219.23	35939.3	141.9327	1	-4.4	3.9	05/03/2013	02/09/2015
D07RP00395	C300-RP701097	79222.32	35930.63	142.2753	0.3	-4.2	3.2	05/03/2013	02/09/2015
D07RP00396	C300-RP701098	79222.9	35930.55	130.0608	-1.3	-4.9	2.9	05/03/2013	02/09/2015
D07RP00397	C300-RP701099	79225.23	35922.7	141.9491	1.5	-4.8	3.4	05/03/2013	02/09/2015
D07RP00400	C300-RP701102	79234.38	35924.65	141.2241	2	-5.3	4	05/03/2013	02/09/2015
D07RP00450	C300-RP701228	79216.26	35951.51	144.2916	3.5	-4.1	3.8	05/03/2013	02/09/2015
D07RP00333	C300-RP700739	79184.94	35909.84	136.5469	0.2	-3.4	-8.7	05/03/2013	27/01/2014
D07RP00336	C300-RP700948	79187.25	35910.57	133.2511	0.7	-2.8	-2.6	05/03/2013	02/01/2014
D07RP00398	C300-RP701100	79225.27	35922.84	135.6199	2.7	-0.7	2.7	05/03/2013	02/01/2014
D07RP00402	C300-RP701104	79244.19	35927.68	141.6028	3.3	-0.5	2.7	05/03/2013	02/01/2014
D07RP00403	C300-RP701105	79244.18	35927.67	136.2029	2.9	-0.1	2.8	05/03/2013	02/01/2014
D07RP00406	C300-RP701108	79244.86	35928.09	145.7129	3.6	-0.6	2.5	05/03/2013	02/01/2014
D07RP00407	C300-RP701109	79244.86	35928.1	130.0721	3.1	-0.2	2.9	05/03/2013	02/01/2014
D07RP00408	C300-RP701110	79258.78	35932.5	145.7595	2.8	0.3	2	05/03/2013	02/01/2014
D07RP00409	C300-RP701111	79258.72	35932.47	130.0959	2.5	0.3	3.8	05/03/2013	02/01/2014
D07RP00416	C300-RP701118	79284.73	35913.99	144.5124	-0.1	-12.5	-11.2	05/03/2013	02/01/2014
D07RP00418	C300-RP701120	79278.9	35912.26	144.489	3.9	-4.5	2.5	05/03/2013	02/01/2014
D07RP00420	C300-RP701122	79268.67	35909.21	144.4846	5.8	-5.6	3.9	05/03/2013	02/01/2014
D07RP00422	C300-RP701124	79268.6	35900.8	144.4132	5.9	-9.5	-3.5	05/03/2013	02/01/2014
D07RP26315	C701-RP26315-CR084	79198.56	35839.25	35839.25	-15.5	2.8	-37.6	05/03/2013	26/10/2015
D07RP28412	C701-RP28412-CR084	79194.09	35912.63	35912.63	1	-8.9	-5.6	05/03/2013	26/10/2015
D07RP7002	C300-RP707002	79181.12	35849.81	35849.81	-11.4	8.9	-17.9	05/03/2013	27/10/2015
D07RP7011	C300-RP707011	79178.92	35848.8	35848.8	-20	22.5	-17.1	05/03/2013	27/10/2015
D07RP7012	C300-RP707012	79179.6	35846.55	35846.55	-21.9	20.7	-25.5	05/03/2013	27/10/2015
D07RP7013	C300-RP707013	79177.96	35845.33	35845.33	-20.8	14	-26.5	05/03/2013	27/10/2015
D07RP00377	C300-RP701079	79198.29	35960.91	35960.91	0.8	-0.7	2.9	05/03/2013	27/10/2015
D07RP00382	C300-RP701084	79209.86	35971.56	35971.56	4.6	2.4	2.5	05/03/2013	27/10/2015
D07RP00383	C300-RP701085	79209.91	35971.29	35971.29	3.1	1.8	2.7	05/03/2013	27/10/2015
D07RP00384	C300-RP701086	79209.79	35970.41	35970.41	1.3	0.8	1.6	05/03/2013	27/10/2015
D07RP00394	C300-RP701096	79220.02	35939.66	35939.66	2.7	0	3.9	05/03/2013	27/10/2015

Table 5.2. Prisms deemed to be unreliable.

ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
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ID	UCIMS ID	VALUE_East [m]	VALUE_North [m]	VALUE_Z [m]	VALUE_East [mm]	VALUE_North [mm]	VALUE_Z m[m]	First Reading Date	Last Reading Date
D07RP7040	C300-RP700515	79111.7	35857.6	127.189	35.9	-68.1	-194.3	18/11/2012	22/09/2013
B07RP00287	C300-RP700665	78897.9	35888.5	125.998	-76.7	-235.2	206.9	00/01/1900	27/01/2014
B07RP00464	C300-RP701154	78973.6	35815.8	132.616	-45.6	-11	-42.8	23/05/2013	27.10.2085
C07RP28113	C701-RP28113-CR084	79103.2	35886.3	131.137	-50	-18.5	-19.1	23/05/2013	02/09/2015
D07RP00399	C300-RP701101	79225.3	35922.9	130.074	-100	-6	3	05/03/2013	02/09/2015
D07RP00376	C300-RP701078	79201.5	35950.4	135.635	70	-5.4	3	05/03/2013	02/09/2015
D07RP00388	C300-RP701090	79216.3	35951.5	138.22	100	-4.2	3.8	05/03/2013	02/09/2015
A07RP21411	C701-RP21411-CR084	78839.4	35774.2	121.73	-2.6	7.8	12.3	07/11/2012	03/09/2015
B07RP00285	C300-RP700857	78894.1	35891.1	125.912	-0.2	-0.2	69.7	23/05/2013	27/06/2015
B07RP00019	C300-RP700054	78899.9	35767.1	130.319	-20.9	14.3	-3511.6	30/10/2012	03/09/2015
B07RP00091	C300-RP700077	78976.9	35786.6	122.083	6.1	10.8	13.1	30/10/2012	03/09/2015
B07RP222320	C701-RP222320-CR084	78926.2	35839.2	131.731	0	-0.5	9.4	30/10/2012	03/09/2015
C07RP27112	C701-RP27112-CR084	79117.3	35807.5	128.579	-1.5	0.5	8.5	07/11/2012	10/03/2013
C07RP22810	C701-RP22810-CR084	78990.8	35840.5	124.568	6.4	5.7	-35.2	10/03/2013	02/09/2015
C07RP22811	C701-RP22811-CR084	78987.2	35843.6	124.65	8.7	9	-36.2	10/03/2013	02/09/2015
C07RP22812	C701-RP22812-CR084	78990.7	35840.6	127.054	8.6	12.6	-34.8	10/03/2013	02/09/2015
C07RP22813	C701-RP22813-CR084	78987	35843.8	127.21	5.8	10.9	-36.1	10/03/2013	02/09/2015
C07RP23013	C701-RP23013-CR084	78996.6	35835.4	125.053	-3.7	12.5	-29.8	10/03/2013	02/09/2015
C07RP23213	C701-RP23213-CR084	79003.9	35828.4	125.052	1.8	8.3	-25.2	10/03/2013	02/09/2015
C07RP23313	C701-RP23313-CR084	79011.7	35822.2	125.43	-1.5	2.4	-26.4	10/03/2013	02/09/2015
C07RP23314	C701-RP23314-CR084	79007.2	35825.8	125.289	-2.6	1.3	-24	10/03/2013	02/09/2015
C07RP23014	C701-RP23014-CR084	78993.9	35837.7	125.23	-2.6	8.7	-32.4	23/05/2013	02/09/2015
B07RP00108	C300-RP700245	79012.3	35772.9	125.779	-4	18.2	4.9	30/10/2012	03/09/2015
B07RP00114	C300-RP700113	78997.9	35783.8	123.772	-6.3	13.3	0.4	30/10/2012	01/12/2013
D07RP28712	C701-RP28712-CR084	79150.8	35891.3	143.953	-12	-10	-8.9	18/11/2012	02/09/2015
B07RP00037	C300-RP700036	78919.7	35759.4	129.883	9.5	13.5	-8.7	23/05/2013	02/09/2015



## 6. Displacement plots for key areas.

All the data gathered from ATSs at BOS has been analysed and the vectors of horizontal movement are represented in the plot included in Section 4. It can be noted that significant movements are shown on South Molton Street and South Molton Lane. Data from the lower level prisms on the east side of South Molton Lane are presented in the plots below.

To facilitate comparison of monitoring data with construction activities 7 periods (A to G) have been assigned, based on those used in the Grout Shaft 1 and 4 close out reports. The main construction activities in each period are listed in Table 6.1.

**Table 6.1 – Construction Periods and Activities**

Period	Main Construction Activities
A	Prior to C300 / 410. (C411 activities only)
B	Westbound running tunnel (WBRT) & Eastbound running tunnel (EBRT)
C	No tunnelling
D	Platform Tunnel Enlargement Westbound (PTW)
E	Platform Tunnel Enlargement Eastbound (PTE) & start of Cross Passages 1 to 4
F	Escalator (ES1) and Concourse tunnel (CH2) & completion of Cross Passages 1 to 4
G	No tunnelling

Figure 6.1. South Molton Lane PRISMS - Settlement with time

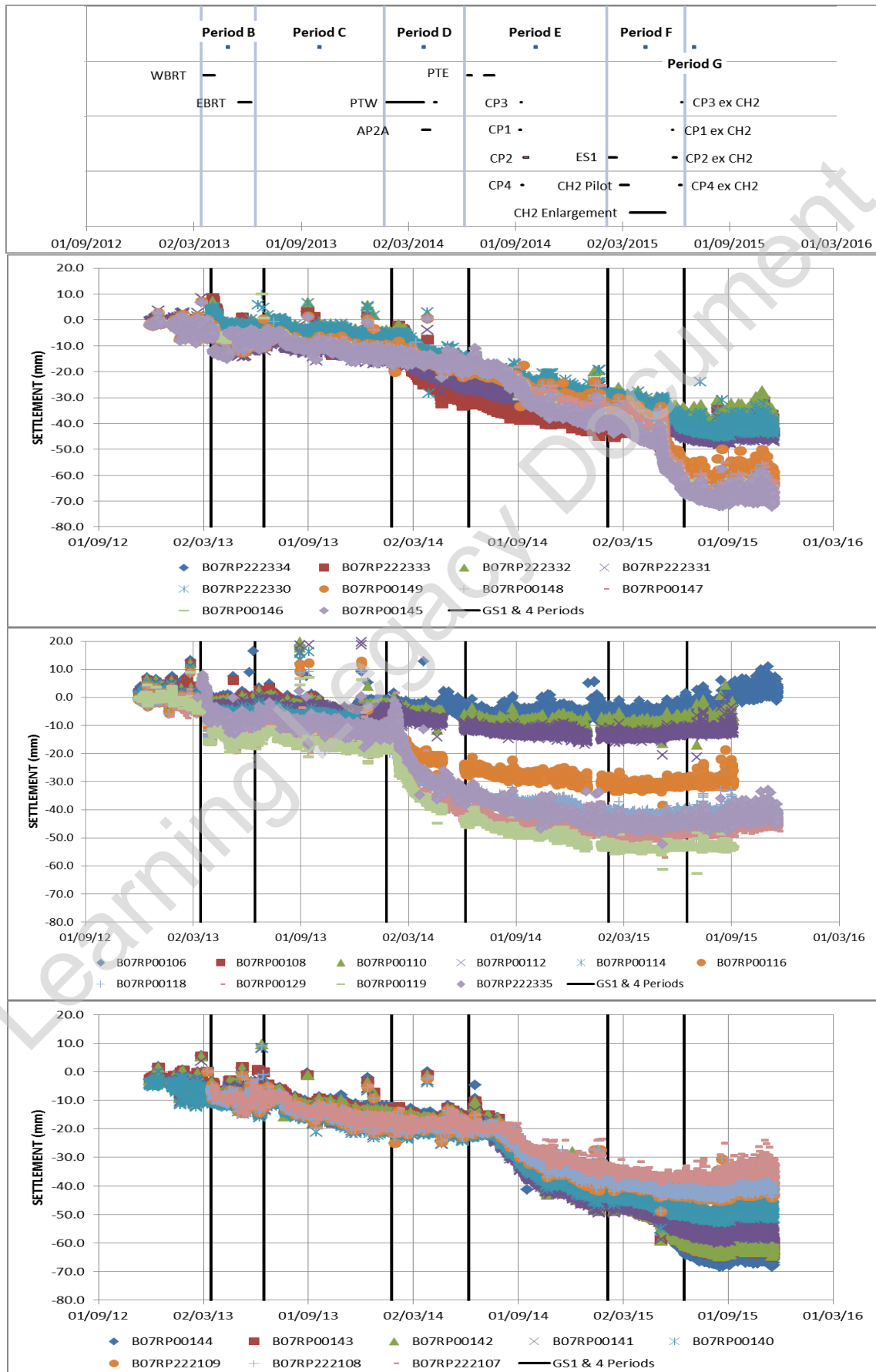


Figure 6.2- South Molton Lane PRISMS - Eastings with time

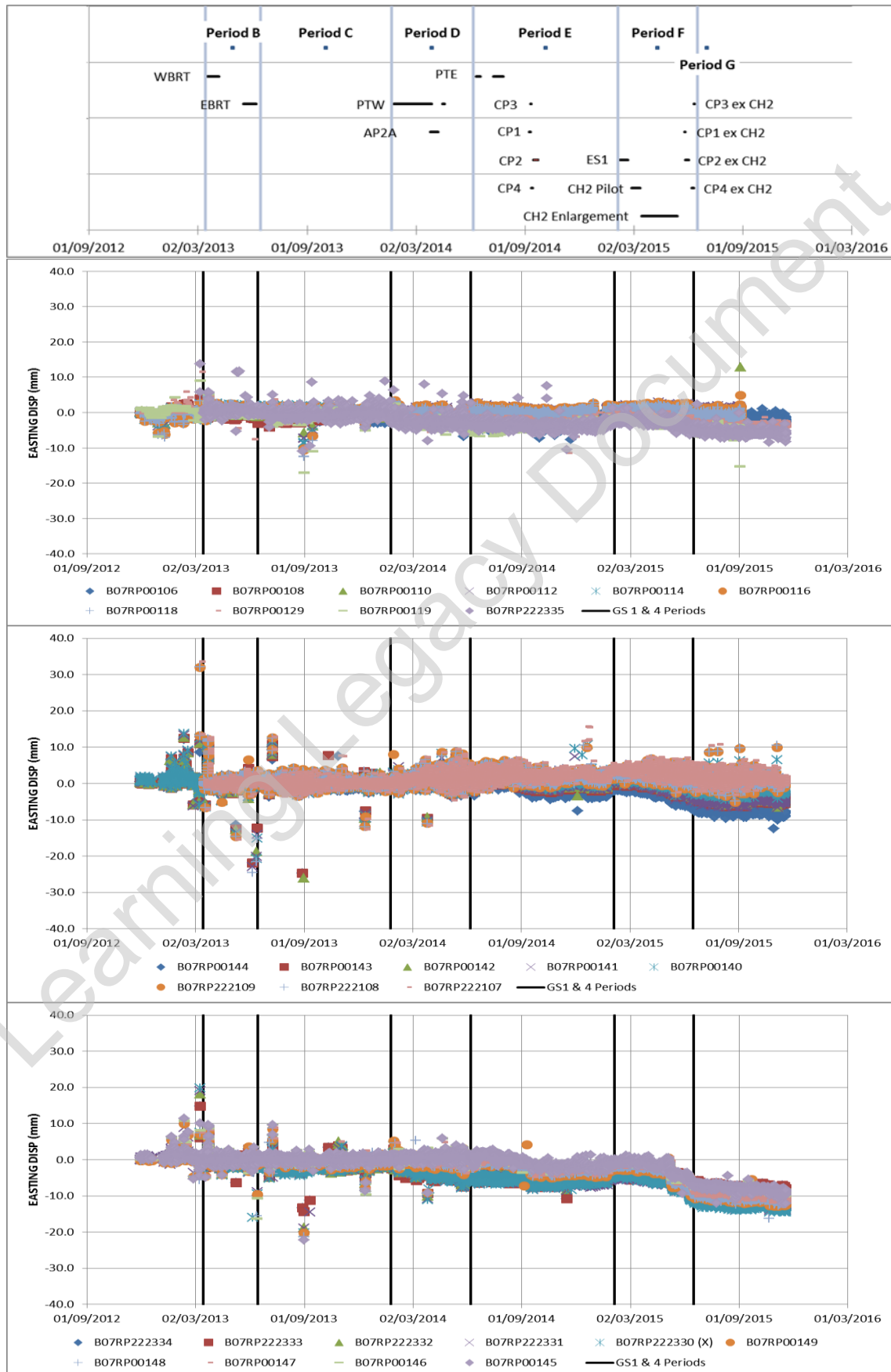


Figure 6.3- South Molton Lane PRISMS – Northing Displacement with time

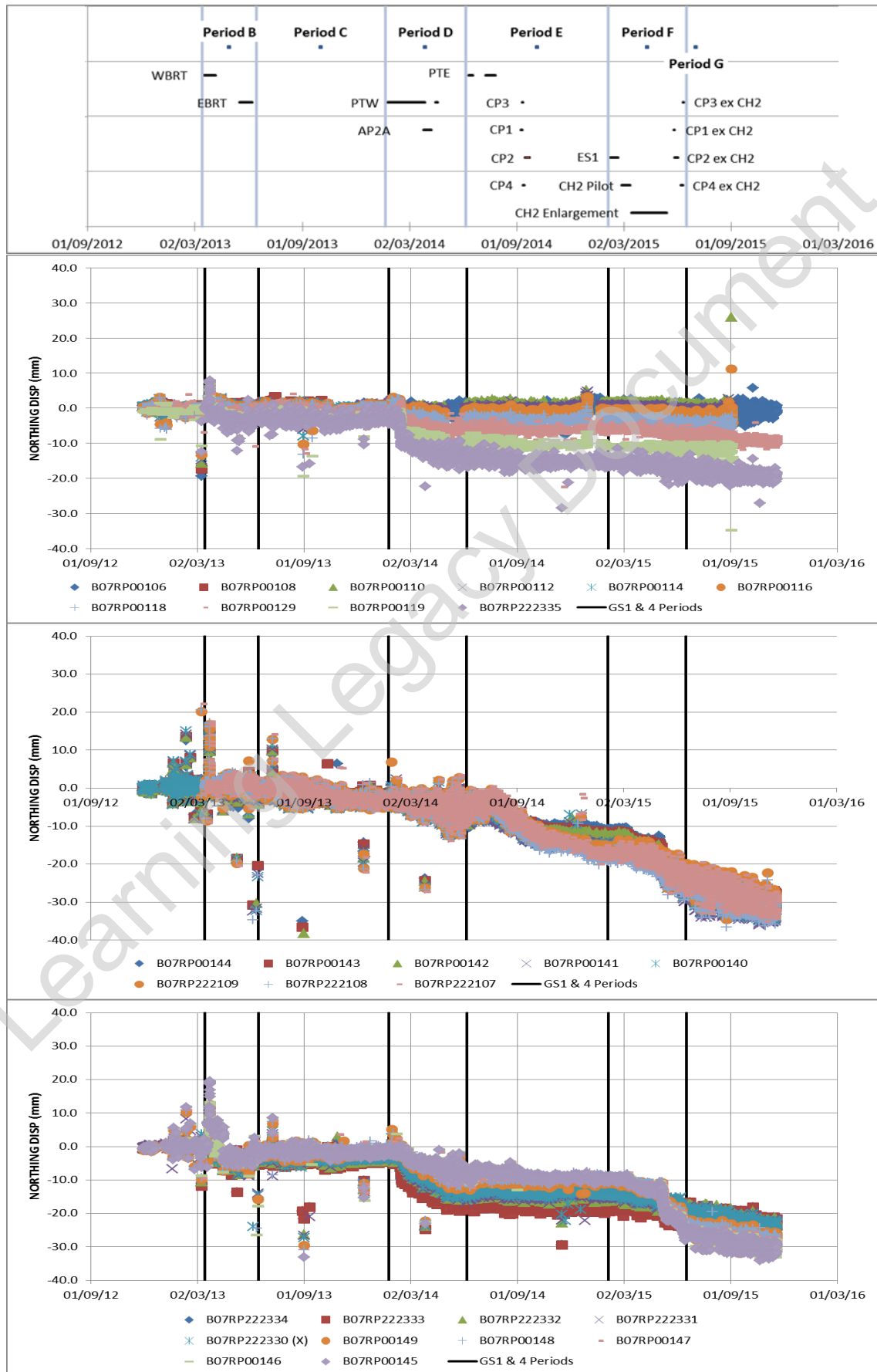




Figure 6.4 - Displacement profiles for GS1 & 4 Periods: SETTLEMENT, EASTINGS, NORTHINGS

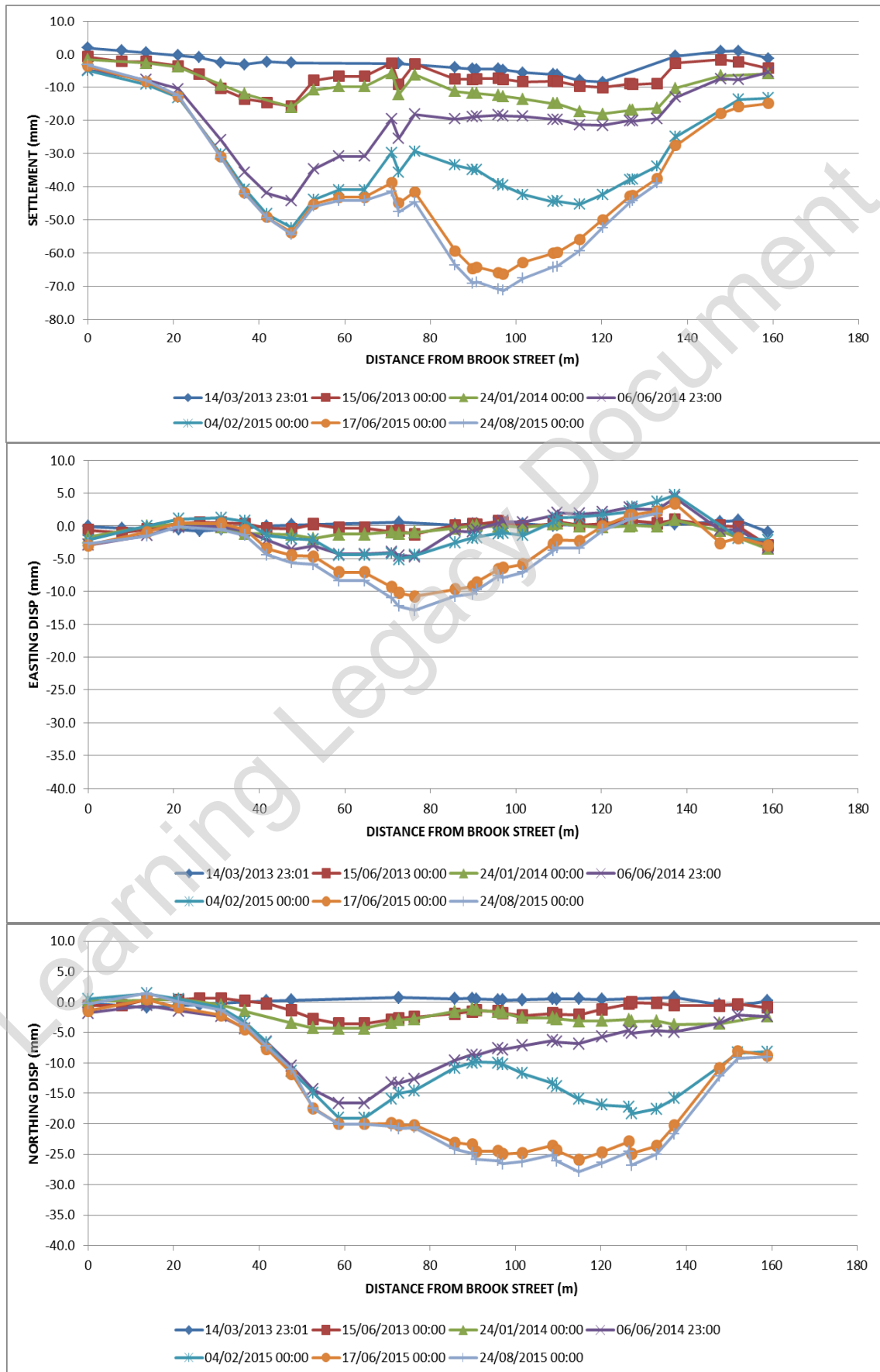


Figure 6.5 - Comparison of settlement profiles from HLC, BRE and prisms

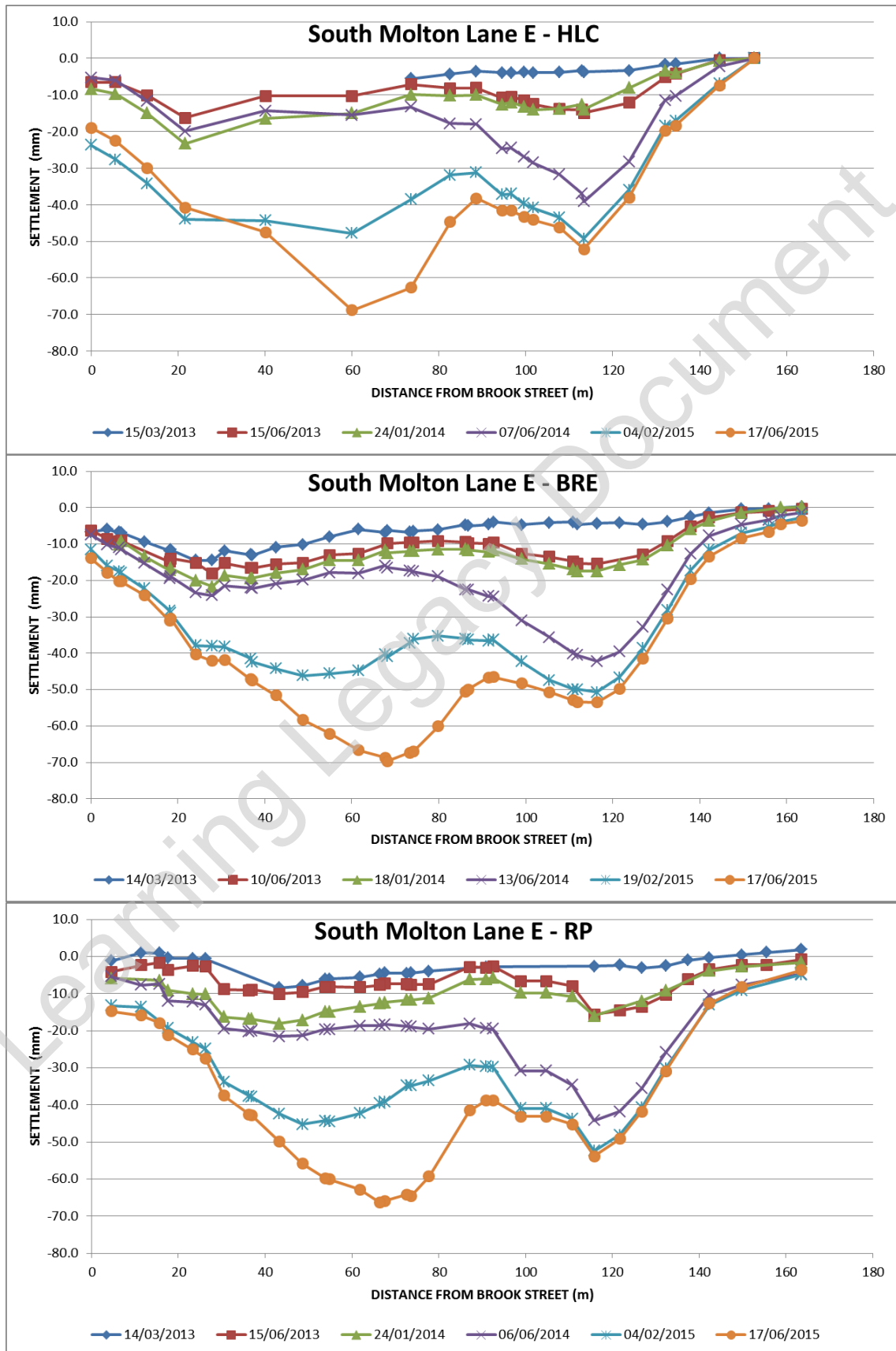


Figure 6.6 - Comparison of settlement data from HLC, BRE and prism (plus horizontal displacements)

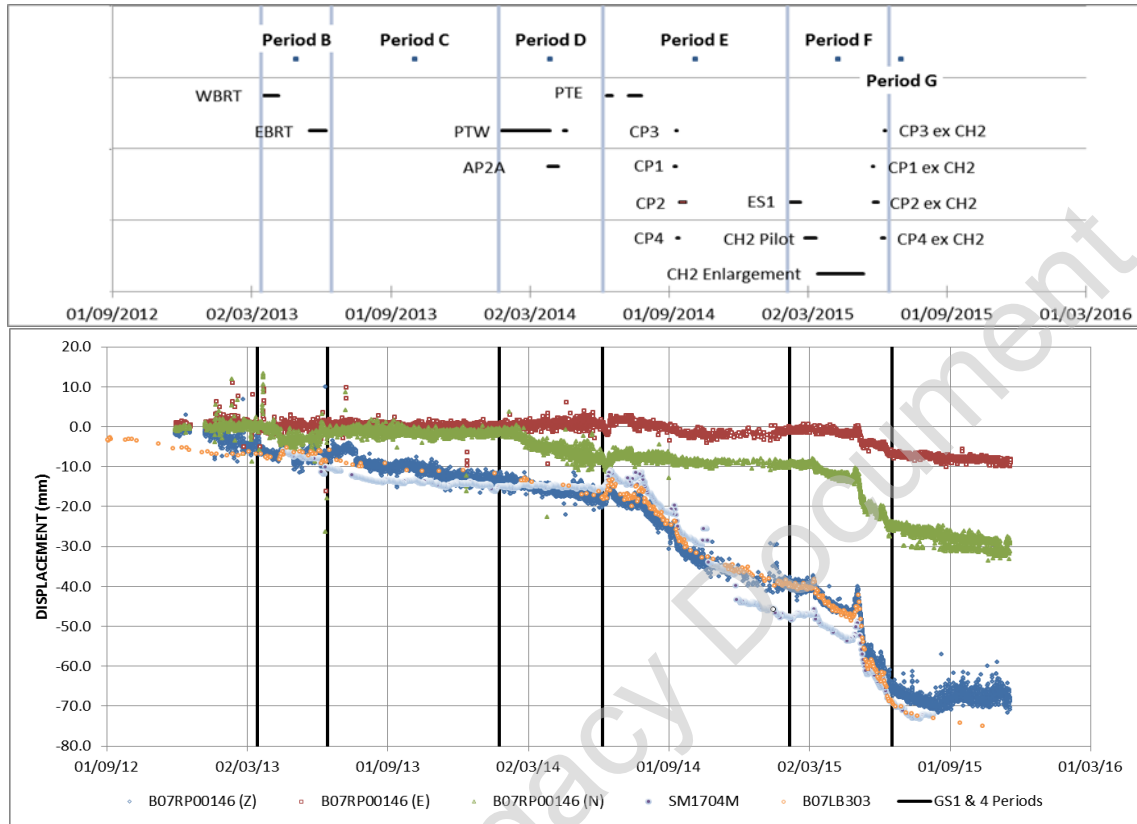
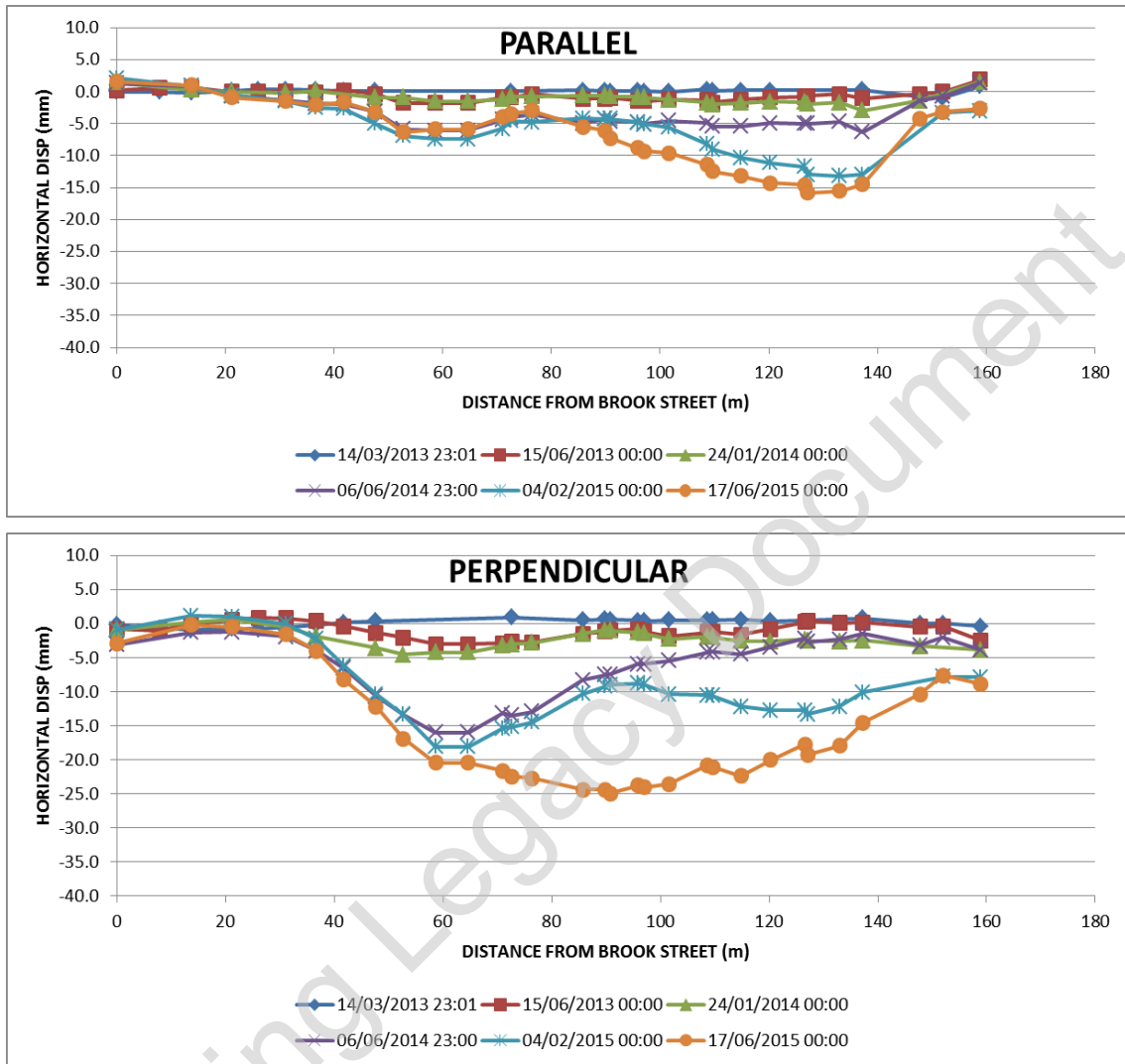


Figure 6.7 - Horizontal displacement profiles resolved perpendicular and parallel to building façade.





## 7. ATS Maintenance Schedule

Table 7.1 - ATS currently at BOS

SN	Location ID	Date Received	Calibration Date	Calibration Due	Instrument Type	Location/Site
361742	BFK-A	06/03/2011	16/04/2014	16/04/2016	TM30 - 1 second	KGI Hanover Square Office
362350	BFK-B	29/07/2011	25/04/2013	25/04/2015	TM30 - 1 second	Bond street - Surface
363038	BFK-C	08/03/2012	04/03/2015	04/03/2017	TM30 - 1 second	Bond street - Surface
360823	BFK-E	02/07/2013	10/11/2014	10/11/2016	TM30 - 1 second	Bond street - Surface
362349	BFK-F	09/01/2013	18/09/2014	18/09/2016	TM30 - 1 second	KGI Hanover Square Office
362288	BFK-G	12/05/2011	19/09/2013	19/09/2015	TM30 - 1 second	Bond street - Surface
362421	BFK-H	01/01/2012	24/10/2014	24/10/2016	TM30 - 1 second	Bond street - Surface
362901	BOS 01	23/12/2011	27/02/2015	27/02/2017	TM30 - 1 second	Bond street - Surface
361755	BOS 02	10/02/2011	30/10/2014	30/10/2016	TM30 - 1 second	Bond street - Surface
101471	BOS 04	29/03/2012	12/11/2013	12/11/2015	TOPCON MS1AX	KGI Hanover Square Office
102077	BOS 05	28/09/2012	07/10/2014	07/10/2016	TOPCON MS1AX	Bond street - Surface
102013	BOS 07	09/08/2012	14/01/2015	14/01/2017	TOPCON MS1AX	Bond street - Surface
362388	BOS 09		30/04/2013	30/04/2015	TM30 - 1 second	Bond street - Surface
362394	BOS 10	29/07/2011	12/03/2015	12/03/2017	TM30 - 1 second	Bond street - Surface
362933	BOS 11	23/12/2011	15/10/2013	15/10/2015	TM30 - 1 second	Bond street - Surface
362937	BOS 12	23/12/2011	05/08/2014	05/08/2016	TM30 - 1 second	KGI Hanover Square Office
362202	BOS 14	12/05/2011	17/07/2013	17/07/2015	TM30 - 1 second	Bond street - Surface
362343	BOS 15	20/02/2014	03/09/2014	03/09/2016	TM30 - 1 second	KGI Hanover Square Office
102096	BOS 16	17/10/2012	07/04/2015	07/04/2017	TOPCON MS1AX	Bond street - Surface
362346	BOS 18	04/02/2014	29/01/2014	29/01/2016	TM30 - 1 second	KGI Hanover Square Office

Table 7.2. ATS already decommissioned at BOS

SN	Location (According to Argus)	Date Decommissioned	Instrument Type	Location/Site
101450	BFK-I	13/06/2014	TOPCON MS1AX	Moore flats, Binney St
102078	BFK-J	18/06/2014	TOPCON MS1AX	Hannover flats, Binney St - Duke Yard
101637	BFK-K	13/06/2014	TOPCON MS1AX	Binney St
101487	BFK-L	19/06/2014	TOPCON MS1AX	74 Duke St
102077	BFK-M	18/06/2014	TOPCON MS1AX	374 Oxford St
362665	BOS 6	06/04/2015	TM30 - 1 second	Brook St
362901	BOS 3	06/02/2014	TM30 - 1 second	BOS WTH
362394	BOS 17	02/12/2014	TM30 - 1 second	64&65 South Molton Street

**Abbreviations for Table 7.3:**

DN	Delivery note/Return Note
LC	Location Change
RR	Repair request
MR	Maintenance request
PU	Pick-up
SR	Service report from Leica
SN	Serial Number

**Table 7.3. Maintenance Schedule for ATSs**

SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
361742	07-Nov-2012	LC	Bond street - Surface	ATS 3	
361742	10-Jan-2013	RAJ	Bond street - Surface	ATS 3	Confirmed By That the swap has taken place on 10/01/13
361742	19-Dec-2013	LC	Uckfield		Read low percentage / zero points
361742	13-Mar-2014	FC	Uckfield		Faults found. Lemo socket pins pushed in. Hz jog does not work correctly. Error 753 position not achieved when laser slightly off prism. Finds and measures when directly on prism.
361742	20-Mar-2014	RR	Uckfield		Repair request sent to SCCS
361742	21-Mar-2014	PU	SCCS		
361742	23-Apr-2014	LC	Uckfield		Returned from SCCS after repair
361742	23-Apr-2014	DN	Uckfield		<a href="#">Horizontal driver plate defective. Ceramic ring worn. Lubrication dry. Repair lemo socket pins. Service as Required.</a>
361742	25-Apr-2014	SET	Uckfield		Post repair tests ok. Setup for site.
361742	16-Apr-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
361742	30-Apr-2014	PU	KGI Hanover Square Office	TCR C	Taken to BFK offices.
362350	29-Jul-2011	DN	Uckfield		new instrument
362350	19-Dec-2011	LC	Tottenham Court Road	15 Holder Street	



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362350	07-Mar-2013	LC	Uckfield		Returned from site - Awaiting fault report
362350	08-Mar-2013	PU	Leica		
362350	29-Apr-2013	SR	Uckfield		Incoming inspection shows poor drive performance and was submitted for an extended maintenance. Touchscreen was faulty and as a result the frontfrae has been replaced. The focusing system has been stripped down, Cleaned and re-greased. Both slip rings were cleaned and re-greased Side cover seals, rubber grip and EDM seals have all been replaced EDM baseline re-determined the additive constant. Instrument and accessories ( incl Container) were cleaned. Tribach was repaired. Instrument passed an outgoing inspection and has been issued with a service certificate.
362350	01-May-2013	LC	Holborn		Taken to Holborn
362350	17-Jul-2014	LC	Bond street - Surface	BFK B	Current position confirmed from Argus.
363038	16-Jun-2012	LC	Bond street - Surface	ATS 7	
363038	10-Jan-2013	RAJ	Bond street - Surface	ATS 7	Confirmed By That the swap has taken place on 10/01/13
363038	27-Feb-2013	LC	Uckfield		Returned from Holborn - Unit often produced error code -99955. Instrument was working at time of replacement. Since start of 1013, instrument was in error around 30% of the time. 16% of these errors were -99960. Remaining errors were -99955. Damaged



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					Lemo socket
363038	27-Feb-2013	LC	Uckfield		Email sent to Leica for collection - Damaged Lemo socket
363038	05-Mar-2013	PU	Leica		Returned to Leica for repair
363038	12-Apr-2013	LC	Uckfield		Returned from Leica
363038	12-Apr-2013	SR	Uckfield		Unit done under Warranty - Touch Screen on TM30 #363038 is not working. New front frame fitted. New screen protector applied. Calibrated as necessary.
363038	12-Apr-2013	SR	Uckfield		This work was chargeable - TM30 #363038 has damaged to various pins in the Lemo socket. New funnel fitted. All keys entered. Firmware upgraded to V8.56. Applications upgraded/reinstalled. RAM cleared. Carried out cleanliness, outgoing, and baseline test protocols. Necessary adjustments made. All tests passed OK. Accessories checked. Everything cleaned. Certification issued.
363038	17-Apr-2013	LC	Holborn		
363038	08-Nov-2013	LC	Uckfield		Returned from SCCS after repair.
363038	08-Nov-2013	SR SCCS	Uckfield		Repair/Standard calibration. Doesn't require UKAS. Clean, check & calibrate. Annual Certification
363038	18-Nov-2013	LC	Holborn		Taken to Holborn





SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
363038	30-Apr-2014	DN	Uckfield		<a href="#">Returned from SCCS after repair/service. Hz/V Motor drive board erratic. Replace part. Adjust and test.</a>
363038	02-May-2014	SET	Uckfield		Firmware upgraded from v8.56 to v8.71. Setup for site.
363038	27-Mar-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
363038	28-May-2014	SET	Uckfield		Setup for site.
363038	10-Jun-2014	PU	KGI Hanover Square Office		Taken to site/BFK offices by Tim Brickell.
363038	29-Aug-2014	LC	Uckfield		Returned unused due to no space at BFK offices
363038	07-Oct-2014	PU	KGI Hanover Square Office		Taken to site/BFK
363038	23-Jan-2015	LC	Uckfield		Returned from site for fault investigation
363038	26-Jan-2015	FC	Uckfield		<a href="#">Minor faults found, suggest service.</a>
363038	17-Feb-2015	PU	SCCS		<a href="#">Picked up by SCCS driver for service + repair</a>
363038	13-Mar-2015	LC	Uckfield		<a href="#">Returned from SCCS after repair/service</a>
363038	04-Mar-2015	CAL	SCCS		<a href="#">Certificate of Conformity</a>
363038	16-Mar-2015	SET	Uckfield		Setup for site.
363038	07-Apr-2015	PU	Bond street - Surface		Taken to site by Steve Maguire
360823	12-Mar-2014	SET	Uckfield		Instrument set up for site.
360823	18-Mar-2014	LC	KGI Hanover Square Office	BOS 02	Taken to site
360823	15-Oct-2014	LC	Uckfield		Returned from site.
360823	16-Oct-2014	FC	Uckfield		<a href="#">Faults found</a>
360823	20-Oct-2014	RR	Uckfield		Repair request sent to SCCS.
360823	22-Oct-2014	PU	SCCS		<a href="#">Picked up by SCCS for repair.</a>
360823	14-Nov-2014	LC	Uckfield		<a href="#">Returned from SCCS after repair/service</a>
360823	10-Nov-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
360823	17-Nov-2014	SET	Uckfield		Setup for site.
360823	22-Jan-2015	PU	Bond street - Surface		Taken to BFK.
362349	11-Apr-2013	LC	Holborn		Taken to be stored at Holborn by request of Chris Emery
362349	19-Apr-2013	LC	Tottenham Court Road	TCR B	Locations confirmed by Chris Emery email on



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					12.04.24
362349	19-Aug-2014	LC	Uckfield		Returned from site by Scott Baldwin
362349	19-Aug-2014	FC	Uckfield		<a href="#">Faults found</a>
362349	20-Aug-2014	RR	Uckfield		Repair request sent
362349	21-Aug-2014	PU	SCCS		Picked up by SCCS driver for repair
362349	25-Sep-2014	LC	Uckfield		<a href="#">Returned from SCCS after repair</a>
362349	18-Sep-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362349	26-Sep-2014	SET	Uckfield		Setup for site
362349	05-Nov-2014	PU	KGI Hanover Square Office		Taken to BFK by unknown site tech
362288	12-May-2011	DN	Uckfield		New instrument
362288	21-Sep-2011	LC	Bond street - surface		Installed Bond Street Aboveground
362288	09-Jan-2013	RAJ	Bond street - Surface	ATS 11	Unit is now BFK unit
362288	25-Apr-2013	LC	Uckfield		Awaiting fault report - Instrument returned for calibration
362288	25-Apr-2013	PU	Leica		Returned to Leica
362288	29-May-2013	LC	Uckfield		Returned from Leica
362288	29-May-2013	LC	Uckfield		Instrument TM30 (ser: 362288) was received into service for an extended maintenance. An incoming inspection was performed. The instrument successfully passed a circle cleanliness inspection. The instrument's focusing system, standing axis & tilting axis have all been dismantled, cleaned, greased, rebuilt and adjusted. All gaskets have been replaced. Both the horizontal and piezo motors have been adjusted as necessary. The theodolite, EDM, tilt sensor, and ATR have all been inspected and adjusted. The instrument's HZ-collimation and V-indax



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					(coarse) has been adjusted. The instrument and its accessories (incl. container) have been intensively cleaned. The EDM optical fibre has been replaced. The instrument firmware has been updated. The instrument passed an outgoing inspection and has therefore been issued with a service certificate.
362288	25-Jun-2013	LC	Holborn		Delivered to Holborn for Simon Nevard
362288	30-Jul-2013	LC	Uckfield		Returned from Holborn - reading low percentage of points
362288	31-Jul-2013	RR	Uckfield		Email sent to Leica - Noisy vertical movement, "no prism found" even when laser had been put on prism
362288	31-Jul-2013	PU	Leica		Returned to Leica for repair
362288	20-Sep-2013	LC	Uckfield		Returned from Leica



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362288	20-Sep-2013	SR	Uckfield		Carried out inspection on TM30. Confirmed fault and diagnosed to faulty base board. Frequency sweep failed on incoming test protocol. Measured torque axis on vertical drive. Torque in tolerance. Re centered vertical and horizontal drives. Carried out 1 hour burn in test. Instrument still failing on frequency sweep. Replaced vertical and horizontal motors, ceramic ring and membrane. Carried out burn in test. Instrument now passes. Completed cleanliness check. Replaced base board and carried out adjustments including laser path alignment. Instrument now finds prisms. Carried out outgoing test protocol with full pass. Completed baseline check. Instrument left overnight tracking prisms with no errors. Cleaned equipment. Produced certificate.
362288	24-Sep-2013	LC	Holborn		Taken to Holborn to be stored
362288	17-Jul-2014	LC	Bond street - Surface	BFK G	Current position confirmed from Argus.
362421	29-Jul-2011	DN	Uckfield		new instrument
362421	05-Sep-2011	LC	Tottenham Court Road	12-16 Derring street	
362421	09-May-2012	LC	Uckfield		Returned from Site - Faulty instrument
362421	22-Jun-2012	RR	Uckfield		Sent email to Leica for collection - HZ not working via geocom
362421	25-Jun-2012	PU	Leica		Returned to Leica for repair





SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362421	05-Jul-2012	LC	Uckfield		Returned from Leica
362421	05-Jul-2012	SR	Uckfield		Instrument received with irregular horizontal drive. Re-initialized and carried out motor adjustments via service. Horizontal drive now works OK. Upgraded firmware and applications to v8.56. Carried out all required adjustments via service program. Carried out full outgoing test protocol using service, cleanliness and baseline programs. Passed ok.
362421	19-Jul-2012	LC	Bond street - Surface		Taken to Holborn for Simon Nevard
362421	19-Jul-2012	LC	Uckfield		Returned to Uckfield unable to deliver
362421	19-Jul-2012	LC	Bond street - Surface		Taken to Holborn for Simon Nevard
362421	20-Aug-2012	LC	Uckfield		Returned 8704 Error (99955) Errors Upon arrival at site it was also noted the Horizontal jog Movement is not functioning
362421	29-Aug-2012	RR	Uckfield		Email sent for collection
362421	30-Aug-2012	PU	Leica		Collected by courier to be returned to Leica
362421	12-Sep-2012	LC	Uckfield		Returned from Leica



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362421	12-Sep-2012	SR	Uckfield		<p>Tm30 #362421 has drive/positioning errors on Horizontal Axis. Horizontal fine drives fail to move instrument. Tested using Service Software. Horizontal attempts to move but fails to make position. Vertical movement also poor. Attempted to re-determine Gear Parameters. Horizontal movement eventually possible, but suspect this went last due to history of instrument. Reloaded firmware V8.55. Sensor Board Add-on Chip fitted (to enhance boot-up process, precautionary measure). New drive board fitted. Gear parameters re-determined. 12 hr burn in test carried out. Cleanliness test carried out. Full outgoing test protocol carried out. Necessary adjustments made. All tests passed OK. Baseline Test Protocol carried out. Reloaded firmware v8.56. Applications reinstalled. Ram cleared. Left instrument for 3 days to replicate customer getting delivery. Movement on both axes was OK. Carried out all gear/motor Tests again using service software and all passed ok. Instrument Cleaned. Accessories checked. Cert issued.</p>



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362421	13-Sep-2012	LC	Bond street - Surface	ATS 15	Taken to Holborn for Drew, being used at Bond street as a replacement unit.
362421	17-Jul-2014	LC	Bond street - Surface	BOS 15	Current position confirmed from Argus.
362421	15-Oct-2014	LC	Uckfield		Returned from site.
362421	17-Oct-2014	FC	Uckfield		<a href="#">Minor faults found</a>
362421	20-Oct-2014	RR	Uckfield		Repair/service request sent to SCCS.
362421	22-Oct-2014	PU	SCCS		<a href="#">Picked up by SCCS driver for service.</a>
362421	31-Oct-2014	LC	Uckfield		<a href="#">Returned from SCCS after service</a>
362421	24-Oct-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362421	04-Nov-2014	SET	Uckfield		Setup for site.
362421	22-Jan-2015	PU	Bond street - Surface		Taken to BFK.
362901	29-Dec-2011	DN	Uckfield		new instrument
362901	12-Jan-2012	LC	Tottenham Court Road	47 South Molton Street ATS G	Taken to site
362901	21-Oct-2013	LC	Uckfield		High compensator value, Instability of the readings, Calibration certificate expires in December 2013.
362901	22-Oct-2013	RR	Uckfield		Email sent to Leica for repair
362901	22-Oct-2013	PU	Leica		Returned to Leica for repair & service
362901	06-Jan-2014	LC	Uckfield		Returned from Leica after repair.
362901	07-Jan-2014	SR	Uckfield		Carried out extended maintenance on TM30 including replacement of seals, ceramic ring and alignment of laser paths. Cleaning and greasing of tilting and standing axis. Completed cleanliness and baseline checks. Completed outgoing test protocol with full pass. Cleaned equipment. Produced certificate.
362901	10-Jan-2014	LC	KGI Hanover Square Office		Taken to office

SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362901	17-Jul-2014	LC	Bond street - Surface	BFK F	Current position confirmed from Argus.
362901	07-Nov-2014	LC	Uckfield		Returned from BFK for repair.
362901	10-Nov-2014	FC	Uckfield		<a href="#">Minor faults found, suggest service.</a>
362901	17-Feb-2015	PU	SCCS		<a href="#">Picked up by SCCS driver for service + repair</a>
362901	27-Feb-2015	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362901	04-Mar-2015	LC	Uckfield		<a href="#">Returned from SCCS after repair/service</a>
362901	05-Mar-2015	SET	Uckfield		Setup for site.
362901	07-Apr-2015	PU	Bond street - Surface		Taken to site by Steve Maguire
361755	10-Feb-2011	NI	Uckfield		
361755	11-Feb-2011	LC	Container		CONTAINER
361755	16-Mar-2011	LC	Uckfield		Brought back to Uckfield
361755	11-May-2011	LC	Bond street - surface		Installed at Bond Street surface
361755	18-Apr-2012	LC	Uckfield		Returned from Holborn for Cleyton - Unit is not stuck on Leica Logo
361755	18-Apr-2012	RR	Uckfield		Email sent to Leica for collection
361755	18-Apr-2012	PU	Leica		Collected by Courier for return to Leica for repair
361755	14-May-2012	RAJ	Uckfield		This unit has been transferred to the BFK pool
361755	17-May-2012	LC	Uckfield		Returned from Leica
361755	17-May-2012	SR	Uckfield		Returned from Leica - Carried out required firmware recovery, followed by installing latest firmware version V8.55, and applications. Carried out incoming protocol (full outgoing) Last time customer settings carried out - 03/12/10 Hz motor marginal. Carried out 1hr burn in test, re-determined gear parameters. Carried out full cleanliness checks. Carried out necessary





SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					adjustments. Carried out full out going protocol. Carried out baseline checks. Checked and adjusted tribrach. Cleaned instrument and case. Replaced eyepiece cover, grub screws were seized. No customer settings obtained due to nature of fault. Customer to reload settings. Issued service certificate.
361755	05-Jul-2012	RR	Uckfield		Email sent to Leica for collection - no motor movement, answers on command
361755	05-Jul-2012	PU	Leica		Collected by Leica for repair
361755	27-Jul-2012	LC	Uckfield		Returned from Leica
361755	27-Jul-2012	SR	Uckfield		Instrument arrived into service with no movement from either gear. The final drives were completely unresponsive. After formatting the NVRAM, internal memory and system RAM, the instrument still did not move. When connected to the service programme, the instrument asked immediately for gear version to be determined. This however still did not enable the final drives to work. A gear test revealed that the motors were functioning however, the instrument failed this gear test significantly, especially in the HZ axis. In an effort to first get the drives to



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					work, the firmware was downgraded and then updated to guard against a corruption in the instrument's data. This action lead to the vertical gear moving in one direction, however it did not function correctly and the horizontal drive was still unresponsive. After putting the instrument on a burn-in test and a determining of the gear parameters the instrument's final drives final became responsive. The gears then required an additional 12 hour burn test before they would pass the gear test. The EDM additive constant was re-determined. A sensor board upgrade has been implemented in to this instrument. This is covered under warranty and is designed to increase stability of the instruments sensor board commands. The instrument passed a full outgoing protocol and was therefore issued with a service cert.
361755	15-Aug-2012	LC	Bond street - Surface	ATS 12	
361755	17-Jul-2014	LC	Bond street - Surface	BOS 12	Current position confirmed from Argus.
361755	15-Oct-2014	LC	Uckfield		Returned from site.
361755	20-Oct-2014	FC	Uckfield		<a href="#">No faults found.</a>
361755	20-Oct-2014	RR	Uckfield		Service request sent to SCCS.
361755	22-Oct-2014	PU	SCCS		<a href="#">Picked up by SCCS driver for service.</a>
361755	31-Oct-2014	LC	Uckfield		<a href="#">Returned from SCCS after service</a>
361755	30-Oct-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
361755	03-Nov-2014	RR	Uckfield		Repair request. CF card slot not working after SCCS Job 15680.
361755	04-Nov-2014	PU	SCCS		Collected for repair - CF card slot not working following service (15680)
361755	07-Nov-2014	LC	Uckfield		<a href="#">Returned from SCCS after secondary CF card repair, FW also upgraded to v9.0.</a>
361755	11-Nov-2014	SET	Uckfield		Setup for site.
361755	22-Jan-2015	PU	Bond street - Surface		Taken to BFK.
101471	29-Mar-2012	DN	Uckfield		new instrument
101471	22-Jul-2012	LC	Paddington - Station		Taken to site
101471	13-Sep-2012	LC	Uckfield		Awaiting the fault description.
101471	02-Oct-2012	PU	Topcon		Returned to Topcon for repair
101471	18-Oct-2012	CAL	Uckfield		
101471	23-Oct-2012	LC	Uckfield		Returned from Topcon
101471	23-Oct-2012	SRT	Uckfield		Troubleshooting, found that the shutter motor was defective, Replaced "shutter complete", Electronic adjustments of the EDM. Full baseline check. Calibration report.
101471	11-Jan-2013	LC	Bond street - Surface		Taken to Holborn for Simon Nevard, unit to be installed at Bond Street.
101471	21-Oct-2013	LC	Uckfield		Slow increase of the compensator values
101471	22-Oct-2013	RR	Uckfield		Email sent to Topcon for repair
101471	24-Oct-2013	PU	Topcon		Returned to Topcon for repair
101471	15-Nov-2013	LC	Uckfield		Returned from Crossrail
101471	15-Nov-2013	SRT	Uckfield		Confirmed: Defective shutter. Replaced shutter and performed all necessary adjustments. Check and adjust according to specifications. Software upgrade (Basic 1114-32-29, MDCPU 1088-30-08, TIPU 1088-40-10 EDM



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					1088-94-12) Calibration report.
101471	18-Nov-2013	LC	Holborn		Taken to Holborn
101471	11-Jun-2014	LC	Uckfield		Returned from site after decommissioning.
101471	17-Jun-2014	FC	Uckfield		<a href="#">No faults found</a>
101471	18-Jun-2014	SET	Uckfield		Setup for site.
101471	10-Jul-2014	PU	KGI Hanover Square Office		<a href="#">Taken to site.</a>
101471	29-Aug-2014	LC	Uckfield		Returned unused due to no space at BFK offices
101471	07-Oct-2014	PU	KGI Hanover Square Office		Taken to site/BFK
102077	28-Sep-2012	DN	Uckfield		new instrument
102077	19-Dec-2012	LC	Unknown		ATS-TB PADDINGTON THROAT
102077	15-Feb-2013	LC	Uckfield		
102077	20-Feb-2013	PU	Topcon		Collected by courier, returned to Topcon for repair
102077	15-Mar-2013	LC	Uckfield		
102077	15-Mar-2013	SRT	Uckfield		Replaced shutter, Check and adjust according to specifications. Calibration report.
102077	19-Mar-2013	LC	Holborn		Taken to Holborn for Chris Emery
102077	19-Apr-2013	LC	Fisher Street	ATS K	Locations confirmed by Chris Emery email on 12.04.15
102077	19-Apr-2013	LC	Uckfield		ATS was behaving very strangely - it stopped reading any points on 10/04, but would start reading some or, sometimes, most of its points for a couple of cycles every couple of days before failing again. No error code was produced. There is no clear link between ATS failures and weather conditions (although sometimes it seemed to





SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					be working on sunny days).
102077	19-Aug-2013	RR	Uckfield		Email sent to Topcon for repair
102077	21-Aug-2013	PU	Topcon		Returned to Topcon for Repair
102077	12-Sep-2013	LC	Uckfield		Returned from Topcon
102077	12-Sep-2013	SRT	Uckfield		Troubleshooting. Replace and damaged parts. Full collimation and baseline test. Software upgrade (Basic 1114-32-29, MDCPU 1088-30-08, TIPU 1088-40-10, EDM 1088-94-12). Calibration report.
102077	17-Sep-2013	LC	Holborn		Delivered to Holborn for Mathieu
102077	28-Feb-2014	LC	Uckfield		Returned from site for repair
102077	03-Mar-2014	FC	Uckfield		Case+Tribrach. Unit tested in Uckfield, no fault found. Returned to stock.
102077	11-Dec-2014	RAJ	Uckfield		Reallocated back to BFK (Setup)
102077	12-Dec-2014	PU	Bond street - Surface		Taken to site with empty Leica box and 2 Topcon batteries
102013	09-Aug-2012	DN	Uckfield		new instrument
102013	03-Oct-2012	LC	Bond street - Surface		Taken to site
102013	11-Feb-2013	LC	Uckfield		Swapped over as possible batch issues with motors. ATS was also not reading approximately 50% of points. Data files were checked and the angles in the points file seemed to be correct.
102013	20-Feb-2013	PU	Topcon		Collected by courier, returned to Topcon for repair
102013	15-Mar-2013	LC	Uckfield		
102013	15-Mar-2013	SRT	Uckfield		Replaced shutter. Check and adjust according to specifications. Calibration report.

SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
102013	19-Mar-2013	LC	Holborn		Taken to Holborn for Chris Emery
102013	19-Apr-2013	LC	Fisher Street	ATS J	Locations confirmed by Chris Emery email on 12.04.16
102013	16-Aug-2013	LC	Uckfield		ATS FREQUENTLY HAD CYCLES READING ZERO POINTS. ATS WAS WORKING AT TIME OF REPLACEMENT.
102013	19-Aug-2013	RR	Uckfield		Email sent to Topcon for repair
102013	21-Aug-2013	PU	Topcon		Returned to Topcon for Repair
102013	16-Sep-2013	LC	Uckfield		Returned from Topcon
102013	16-Sep-2013	SRT	Uckfield		Work Performed: Instrument was extensively tested, Problem could not be confirmed. Check and adjust according to specifications. Software upgrade (Basic 1114-32-29, MDCPU 1088-30-08, TIPU 1088-40-10 EDM 1088-94-12). Calibration Report.
102013	20-Sep-2013	LC	Holborn		
102013	17-Apr-2014	LC	Uckfield		Returned from site for investigation
102013	25-Apr-2014	FC	Uckfield		<a href="#">Small rubber ring on manual site cracked. Vertical jog bouncy. No faults relating to actual workings of instrument found so repair deemed unnecessary at this time. Test cycles passed. Working.</a>
102013	29-Apr-2014	SET	Uckfield		Setup for site.
102013	30-Apr-2014	PU	KGI Hanover Square Office	BOS 07	Taken to BFK offices.
102013	07-Nov-2014	LC	Uckfield		Returned from BFK for repair.
102013	10-Nov-2014	FC	Uckfield		<a href="#">Faults found.</a>
102013	16-Nov-2014	RR	Uckfield		Repair request sent to Topcon GB.
102013	17-Nov-2014	PU	Topcon		Picked up by TNT for



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					repair at Topcon GB
102013	15-Jan-2015	LC	Uckfield		<a href="#">Returned from Topcon after repair.</a>
102013	14-Jan-2015	CAL	Topcon		<a href="#">Certificate of Conformity</a>
102013	16-Jan-2015	SET	Uckfield		Setup for site.
102013	22-Jan-2015	PU	Bond street - Surface		Taken to BFK.
362388	05-Oct-2011	LC	Bond street - surface		TAKEN TO SITE
362388	19-Jan-2012	LC	Uckfield		Returned to Uckfield - 99955 Error
362388	23-Jan-2012	FC	TECH DEPT	Stores	Formatted RAM, Put under test
362388	25-Jan-2012	RR	Uckfield		Email sent to Leica for collection - Format Ram - Put on test but keeps locking up
362388	25-Jan-2012	PU	Leica		Sent back to Leica
362388	29-Feb-2012	DN	Uckfield		Returned from Leica - No service report sent back with the unit - Email sent to Charlotte at Leica for a copy of the report
362388	01-Mar-2012	SR	Uckfield		Replaced defective board/component, carried out software upgrade, carried out check and adjust, checked as per factory instruction.
362388	13-Apr-2012	LC	Bond street - Surface	ATS 1	Taken to site by Jon for Cleyton
362388	11-Apr-2013	LC	Uckfield		Instrument produced occasional -99957 errors and would read 0 points (or a low %) for some cycles. Frequency of these errors seemed to be increasing. Given that the TBM is currently passing under this site it was decided to replace the ATS to improve reliability. Instrument was working correctly on the day of replacement.
362388	19-Apr-2013	FC	Uckfield		Checks carried out by Brian - Touch screen bleeps but does not work

SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362388	19-Apr-2013	RR	Uckfield		Email sent to Leica for collection
362388	22-Apr-2013	PU	Leica		Returned to Leica
362388	22-Apr-2013	RAJ	Leica		Unit has been reallocated to 228 as per email from Nick De Rossi 22.04.21
362388	01-May-2013	LC	Uckfield		Returned from Leica
362388	01-May-2013	SR	Uckfield		TM30 #362388 Touchscreen non-functioning. New front frame fitted. Screen protector applied. Sensor board Add-on chip fitted (helps prevent any potential boot up issues in the future). Tested using Service Software. Necessary adjustments made. All tests taken passed OK. Baseline test protocol carried out and new Additive constant stored. Accessories checked. Everything given quick clean (as thoroughly as possible given time allowed). Certification issued.
362388	13-May-2013	LC	Holborn		To be stored at Holborn
362388	24-Jun-2013	RAJ	Holborn		Unit has been returned to BFK project as per email from Brendon 24.06.13
362388	17-Jul-2014	LC	Bond street - Surface	BOS 09	Current position confirmed from Argus.
362394	29-Jul-2011	DN	Uckfield		new instrument
362394	24-Nov-2011	LC	Tottenham Court Road	31 Soho Square	Taken to Site
362394	06-Mar-2013	LC	Uckfield		A power failure at 31-32 Soho Square in early February resulted in the ATS losing power. Following restoration of power to the building, the ATS produced error code -99960. Power was checked at the data logger and found to be



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					ok.
362394	06-Mar-2013	PU	Uckfield		Email sent to Leica for collection - unit needs a service, also tribrach was very stiff on the lock lever.
362394	12-Apr-2013	LC	Uckfield		Returned from Leica
362394	12-Apr-2013	SR	Uckfield		TM30 received with error code. Carried out inspection and test protocol including burn in test. Burn in test failed, speed out of tolerance. Removed piazo drive and measured torque on vertical axis. Axis out of tolerance. Extended maintenance required as axis will need cleaning and regreasing. Carried out extended maintenance including greasing, replacement of seals and alignment of laser paths. Updated firmware to latest v8.56. Cleaned equipment. Tribrach checked and adjusted. Produced certificate.
362394	17-Apr-2013	LC	Holborn		
362394	17-Jul-2014	LC	Bond street - Surface	BOS 17	Current position confirmed from Argus.
362394	22-Dec-2014	LC	Uckfield		Returned from site
362394	06-Jan-2015	FC	Uckfield		<a href="#">Working but suggest service</a>
362394	17-Feb-2015	PU	SCCS		<a href="#">Picked up by SCCS driver for service + repair</a>
362394	13-Mar-2015	LC	Uckfield		<a href="#">Returned from SCCS after repair/service</a>
362394	12-Mar-2015	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362394	16-Mar-2015	SET	Uckfield		Setup for site.
362394	07-Apr-2015	PU	Bond street - Surface		Taken to site by Steve Maguire
362933	29-Dec-2011	DN	Uckfield		new instrument
362933	27-Jan-2012	LC	Paddington - Station		Taken to site





SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362933	07-Feb-2012	LC	Uckfield		Returned from site - unused unit - not installed
362933	16-Mar-2012	LC	Paddington - Station		Taken to Site
362933	19-Mar-2012	LC	Uckfield		Returned from site - unused
362933	12-Apr-2012	LC	Oxford Street	94-98	Taken to Site
362933	25-Apr-2013	LC	Uckfield		ATS was not reading any points
362933	02-May-2013	RR	Uckfield		Email sent to Leica for collection
362933	02-May-2013	PU	Leica		
362933	12-Jun-2013	SR	Uckfield		Instrument TM30 was received into service for reported HZ Movement issues, an incoming inspection was performed and as a result an extended maintenance was required. The instrument successfully passed a circle Cleanliness inspection. The Instrument's focusing system, standing axis and tilting axis have all been dismantled, cleaned , greased, rebuilt and adjusted. All Gaskets have been replaced. Both the horizontal and vertical piezo drives have been inspected and adjusted as necessary. The Theodolite, EDM, tilt sensor, and ATR have all been inspected and adjusted. The Instrument's HZ-collimation and V-index (coarse) has been adjusted. The instrument and its accessories (incl. container) have been intensively cleaned. The EDM additive constant has been re-determined



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					This instrument passed an outgoing inspection and has been issued with a service Certificate.
362933	25-Jun-2013	LC	Holborn		Delivered to Holborn for Simon Nevard
362933	30-Aug-2013	LC	Holborn		
362933	20-Sep-2013	LC	Uckfield		Returned from Holborn
362933	20-Sep-2013	FC	Uckfield		Have re set up the unit and done a test with unit from the logger and all works ok. Andor confirmed that unit is ok to place back on to a site environment.
362933	24-Sep-2013	LC	Holborn		Taken to Holborn to be stored
362933	30-Sep-2013	LC	Uckfield		When connected to main power, the ATS start flashing and didn't take any readings. General EDM error 84. This RTS was set up the 29/08/2013 and sent to Holborn the 20/09.
362933	30-Sep-2013	FC	Uckfield		Firmware 8.71, horizontal movement jerky. Laser will not turn on. General EDM error (84).
362933	30-Sep-2013	RR	Uckfield		Email sent to Leica for repair.
362933	01-Oct-2013	PU	Leica		Returned to Leica for repair
362933	17-Oct-2013	LC	Uckfield		Returned from Leica



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
362933	17-Oct-2013	SR	Uckfield		<p>TM30 received with positioning errors and no ATR/EDM function. Carried out inspection/test protocol. Confirmed fault on both accounts. Diagnosed positioning errors to faulty drivers and modification required. Diagnosed ATR/EDM faults down to faulty base board. Modification, replacement driver and replacement base board will all need to be carried out. Completed cleaning and greasing of tilting and standing axis. Replaced Vertical ceramic ring and membranes. Horizontal driver had been replaced in previous job. Re centered HZ driver and carried out burn in test. HZ driver now not jumping however vertical motor power has failed in motor function test. Replaced Vertical motor and carried out a further burn in test. Both drivers now pass in motor function test and frequency sweep. Replaced faulty base board and completed all required adjustments including alignment of laser paths. Completed cleanliness and baseline checks. Carried out outgoing test protocol with full pass. Cleaned equipment. Produced certificate.</p>
362933	22-Oct-2013	LC	Holborn		Taken to Holborn for



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					Mathieu
362933	17-Jul-2014	LC	Bond street - Surface	BOS 11	Current position confirmed from Argus.
362937	29-Dec-2011	DN	Uckfield		new instrument
362937	16-Mar-2012	LC	Paddington - Station		Taken to site
362937	19-Mar-2012	LC	Uckfield		Returned from site - Unused
362937	13-Apr-2012	LC	Bond street - Surface	ATS 6	Taken to site by Jon for Cleyton
362937	16-Apr-2012	LC	Bond street - Surface	BOS06	
362937	08-Jun-2014	LC	Uckfield		Returned from site after decommissioning
362937	23-Jun-2014	FC	Uckfield		<a href="#">Working but minor faults found. Service requested by Dom K.</a>
362937	30-Jun-2014	RR	Uckfield		Repair request sent to SCCS.
362937	01-Jul-2014	PU	SCCS		<a href="#">Picked up for SCCS repair</a>
362937	11-Aug-2014	SR SCCS	Uckfield		<a href="#">Service Report</a>
362937	05-Aug-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362937	11-Aug-2014	LC	Uckfield		Returned from SCCS after repair
362937	14-Aug-2014	SET	Uckfield		Setup for site
362937	07-Oct-2014	PU	KGI Hanover Square Office		Taken to site/BFK
362202	12-May-2011	DN	Uckfield		New instrument
362202	02-Sep-2011	LC	Bond street - surface	ATS 17	BONDSTREET ATS 17
362202	09-Jan-2013	RAJ	Bond street - Surface	ATS 17	Unit is now BFK unit
362202	25-Apr-2013	LC	Uckfield		Awaiting fault report - Instrument returned for calibration
362202	25-Apr-2013	PU	Leica		Returned to Leica
362202	18-Jul-2013	LC	Uckfield		Returned from Leica
362202	18-Jul-2013	SR	Uckfield		TM30 #362202 sent in for servicing. Extended use maintenance carried out. carried out incoming test using service software. New horizontal piezo fitted. New ball cage and axial bearing fitted. sensorboard add-on chip fitted. New membrane fitted. All major seals and gaskets replaced with new items.



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					Firmware V8.71 installed Applications upgraded where necessary. RAM cleared. Carried out cleanliness, outgoing, and baseline test protocols. Necessary adjustments made. All tests passed OK. Accessories checked. Everything cleaned. Certification issued.
362202	30-Jul-2013	LC	Holborn		Delivered to Holborn
362202	17-Jul-2014	LC	Bond street - Surface	BOS 14	Current position confirmed from Argus.
362343	09-Nov-2011	LC	BFK		Taken to Site
362343	11-Nov-2011	LC	Uckfield		Returned from site, Not used.
362343	14-Nov-2011	LC	TCR	14-15 Carlisle Street	Taken to site
362343	20-Feb-2014	LC	Uckfield		Returned after repair from SCCS. Main record created for this instrument as one didn't exist.
362343	20-Feb-2014	SR SCCS	Uckfield		Instrument received for Calibration. Relubricate tilt axis. Service as Required. Carry Out Incoming and Outgoing Checks. Circle Clean Checks. Partially Strip. Realign Vertical and Horizontal Drives. Overhaul Dust Ring and Focus Assemblies. Realign Tilt Axis. Upgrade Firmware to V8.71. Replace Parts as Listed. Realign Diodes and Optics. Adjust Electronics. Test Compensator. Reassemble and Reseal. Base Line Test. Clean, Check and Adjust. Clean Case. Issue Test





SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					Certificate.
362343	01-Apr-2014	SET	Uckfield		Setup for site
362343	02-Apr-2014	PU	KGI Hanover Square Office		Taken to site
362343	13-Feb-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362343	22-Aug-2014	LC	Uckfield		Returned from site by Scott Baldwin
362343	22-Aug-2014	FC	Uckfield		<a href="#">Faults found</a>
362343	26-Aug-2014	RR	Uckfield		Repair request sent.
362343	27-Aug-2014	PU	SCCS		<a href="#">Picked up for repair by SCCS driver</a>
362343	03-Sep-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>
362343	05-Sep-2014	LC	Uckfield		Returned from SCCS after repair
362343	05-Sep-2014	SR SCCS	Uckfield		<a href="#">Service report - initialisation fault found requiring sending back to SCCS</a>
362343	08-Sep-2014	PU	SCCS		Picked up by SCCS driver for post-repair repair.
362343	10-Sep-2014	LC	Uckfield		Returned from SCCS.
362343	11-Sep-2014	SET	Uckfield		Setup for site
362343	09-Oct-2014	PU	KGI Hanover Square Office		Taken to site/BFK
102096	17-Oct-2012	DN	Uckfield		new instrument
102096	26-Nov-2012	LC	Bond street - Surface		Taken to site
102096	20-Sep-2013	LC	Uckfield		Unit returned from Holborn, No point read since 22/07/2013. Intermittent error -99955 error on positioning.
102096	20-Sep-2013	RR	Uckfield		Email sent to Topcon for repair - Boots up to "error self check" Unit will not take a distance measurement unit just searches for a prism, does not even come up with "target not found"
102096	23-Sep-2013	PU	Topcon		Returned to Topcon for repair
102096	09-Oct-2013	LC	Uckfield		Returned from Topcon
102096	09-Oct-2013	SRT	Uckfield		Confirmed: defective shutter. Replaced shutter and performed all necessary adjustments. Check and adjust according to



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					specifications. Software upgrade (Basic 1114-32-29, MDCPU 1088-30-08, TIPI 1088-40-10, EDM 1088-94-12). Calibration report.
102096	16-Oct-2013	LC	Holborn		Taken to be stored at Holborn
102096	10-Jun-2014	LC	Uckfield		Returned from site after decommissioning.
102096	16-Jun-2014	FC	Uckfield		<a href="#">No faults found.</a>
102096	17-Jun-2014	SET	Uckfield		Setup for site.
102096	10-Jul-2014	PU	KGI Hanover Square Office		<a href="#">Taken to site.</a>
102096	29-Aug-2014	LC	Uckfield		Returned unused due to no space at BFK offices
102096	05-Nov-2014	PU	KGI Hanover Square Office		Taken to BFK by unknown site tech
102096	23-Jan-2015	LC	Uckfield		Returned from site for fault investigation
102096	23-Jan-2015	FC	Uckfield		<a href="#">Faults found. Instrument not working.</a>
102096	28-Jan-2015	PU	Topcon		<a href="#">Picked up by TNT for repair/service at Topcon GB</a>
102096	08-Apr-2015	LC	Uckfield		<a href="#">Returned from Topcon GB after repair/service</a>
102096	07-Apr-2015	SRT	Topcon		<a href="#">Service report</a>
102096	07-Apr-2015	CAL	Topcon		<a href="#">Certificate of Conformity</a>
102096	09-Apr-2015	SET	Uckfield		Setup for site
102096	07-Jul-2015	PU	Bond street - Surface	BOS16	Taken to site to replace BOS16
362346	07-Nov-2011	LC	TCR	ATS J 183-185 Wardour Street	Taken to Site
362346	04-Feb-2014	DN	Uckfield		new instrument
362346	04-Feb-2014	LC	Uckfield		Returned after repair from SCCS
362346	04-Feb-2014	SR SCCS	Uckfield		Calibration required. Instrument received very dirty. EDM diode alignment required adjustment. Service as required. Carry out incoming and outgoing checks. Circle clean
362346	05-Feb-2014	LC	KGI Hanover Square Office	TCR F	Taken to the offices for



SN	Date Received / Sent away	Record Type	Location/Site	Position	Notes
					Mathieu
362346	29-Jan-2014	CAL	SCCS		<a href="#">Certificate of Conformity</a>

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