USGS SPCMCS FACS Operations Log -Kinematic Survey

SPCMSC FAN# 2014-322-FA (14CTB02)		
Kinematic Rover - A	Recording Interval (s) 1 sec	Comments
Platform (boat, buggy, pole, etc)	Beach pole	SMG-MANT-5 with blue receiver Orange/white plus red/white survey rod with metal plate plus spike, height = 215.3 cm This is receiver "A" – used for most OSV and boat access site occupation
Receiver Make/Model#	Ashtech Z-Xtreme model 800889 Rev B	
Receiver S/N#	ZE120011226	
Antenna Model or P/N#	Ashtech marine antenna P/N 700700 (B)	
Antenna S/N#	12914	
Antenna Height (m)	2.153 m	
Offset Diagram for Antenna?	No (see field photos)	
Kinematic Rover - B	Recording Interval (s) 1 sec	Comments
Platform (boat, buggy, pole, etc)	GPR backpack or beach pole	SMG-GANT-1 with white receiver Orange GPS backpack with red/white extension rod for GPR survey (see GPR log for offsets); yellow/black rod plus red/white extension for site occupation (see session log for offsets) This is receiver "B" – used for GPR operations and some OSV and boat access site occupation
Receiver Make/Model#	Ashtech Z-Xtreme model 800889 Rev B	
Receiver S/N#	ZE120023717	
Antenna Model or P/N#	Ashtech geodetic antenna P/N 701975-01 Rev A	
Antenna S/N#	5494	
Antenna Height (m)	See session and GPR logs	
Offset Diagram for Antenna?	No (see field photos)	
Primary Static Base Information	Recording Interval (s) 1 sec	Comments
Base Location	NPS control site 2010ASIS008	NPS control site 2010ASIS008 set up for long-term occupation for duration of survey by Neil Winn (NPS)
NGS PID # if applicable		
Base Site Name:	ASIS008	
Receiver Make/Model#	Timble NetR9	
Receiver S/N#		
Antenna Model or P/N#	Trimble GNSS-Ti choke ring model 59900.00	
Antenna S/N#		
Tripod Height (m)	2.00 m	
Secondary Static Base Information	Recording Interval (s) 1 sec	Comments
Base Location	NPS control site 2011ASISBAYR	Thales CR antenna with red receiver; fixed height tripod Site occupied 10/20 to 10/26/14 (JD 293 - 299) Day and overnight occupation: record interval 1 sec
NGS PID # if applicable		
Base Site Name	BAYR	
Receiver Make/Model#	Ashtech Z-Xtreme model 800889 Rev D	
Receiver S/N#	ZE120013402	
Antenna Model or P/N#	Thales Choke Ring 701945-02 Rev E	
Antenna S/N#	CR6200548003	
Tripod Height (m)	2.00 m	
Offset Diagram for Antenna?	No (see field photos)	

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Secondary Static Base Information	Recording Interval (s) 1 sec	Comments
Base Location	NPS control site 2011ASISCH1	Thales CR antenna with red receiver; fixed height tripod Initial occupation 10/27, intent was to service base station morning of 10/29 prior to accessing mainland and southern ASIS sample sites. Due to rocket explosion evening of 10/28, access to site on NWR property was not allowed on 10/29. Morning of 10/30 receiver and battery was still running but data card was full. Data recorded from 10/27 16:46:27 UTC to 10/29 18:11:47. Day and overnight occupation: record interval 1 sec
NGS PID # if applicable		
Base Site Name	CH01	
Receiver Make/Model#	Ashtech Z-Xtreme model 800889 Rev D	
Receiver S/N#	ZE120013402	
Antenna Model or P/N#	Thales Choke Ring 701945-02 Rev E	
Antenna S/N#	CR6200547005	
Tripod Height (m)	2.00 m	
Offset Diagram for Antenna?	No (see field photos from March trip)	

SPCMSC FAN#		2014-322-FA	Local Time Zone		Eastern Daylight Time				
Static Receiver Log		**Base station**							
		UTC Time		GPS			GPS Seconds			
Date	DOY	Start	Stop	Week	Session	RI	Start	Stop	Total Epochs	Comments
10/20/14	293	13:22:58	23:59:59	1815	A	1 sec	134578.0	172799.0	38221.0	2010ASIS008
10/21/14	294	0:00:00	23:59:59	1815	A	1 sec	172800.0	259199.0	86399.0	2010ASIS008
10/22/14	295	0:00:00	23:59:59	1815	A	1 sec	259200.0	345599.0	86399.0	2010ASIS008
10/23/14	296	0:00:00	23:59:59	1815	A	1 sec	345600.0	431999.0	86399.0	2010ASIS008
10/24/14	297	0:00:00	23:59:59	1815	A	1 sec	432000.0	518399.0	86399.0	2010ASIS008
10/25/14	298	0:00:00	23:59:59	1815	A	1 sec	518400.0	604799.0	86399.0	2010ASIS008
10/26/14	299	0:00:00	23:59:59	1816	A	1 sec	0.0	86399.0	86399.0	2010ASIS008
10/27/14	300	0:00:00	23:59:59	1816	A	1 sec	86400.0	172799.0	86399.0	2010ASIS008; rinex file header is 24 hr vs OPUS solution stop time 12:40:30?
10/28/14	301	0:00:00	23:59:59	1816	A	1 sec	172800.0	259199.0	86399.0	2010ASIS008
10/29/14	302	0:00:00	23:59:59	1816	A	1 sec	259200.0	345599.0	86399.0	2010ASIS008
10/30/14	303	0:00:00	23:59:59	1816	A	1 sec	345600.0	431999.0	86399.0	2010ASIS008
10/31/14	304	0:00:00	18:59:09	1816	A	1 sec	432000.0	518399.0	86399.0	2010ASIS008
10/21/14	294	14:22:21	22:29:40	1815	A	1 sec	224541.0	253780.0	29239.0	BAYR
10/21/14	294	22:34:00	12:53:00	1815	A	1 sec	254040.0	305580.0	51540.0	BAYR
10/22/14	295	12:58:05	18:52:50	1815	A	1 sec	305885.0	327170.0	21285.0	BAYR
10/22/14	295	18:57:00	12:16:00	1815	A	1 sec	327420.0	389760.0	62340.0	BAYR
10/23/14	296	12:19:56	22:15:35	1815	A	1 sec	389996.0	425375.0	35379.0	BAYR
10/23/14	296	22:19:00	12:05:00	1815	A	1 sec	425940.0	475500.0	49560.0	BAYR
10/24/14	297	12:09:52	23:26:40	1815	A	1 sec	475792.0	516400.0	40608.0	BAYR
10/24/14	297	23:31:00	12:08:00	1815	A	1 sec	516660.0	561600.0	44940.0	BAYR
10/25/14	298	12:13:18	21:35:15	1815	A	1 sec	562398.0	596115.0	33717.0	BAYR
10/25/14	298	21:37:00	8:56:00	1815	A	1 sec	596220.0	32160.0	40739.0	BAYR
10/26/14	299	12:23:33	22:22:20	1816	A	1 sec	44613.0	80540.0	35927.0	BAYR
10/27/14	300	16:46:00	23:59:00	1816	A	1 sec	146760.0	172740.0	25980.0	CH01
10/28/14	301	0:00:00	11:59:59	1816	B	1 sec	172800.0	259199.0	86399.0	CH01
10/29/14	302	0:00:00	6:11:47	1816	C	1 sec	259200.0	324707.0	65507.0	CH01
Kinematic Receiver Log		**Beach pole**								
		UTC Time		GPS			GPS Seconds			
Date	DOY	Start	Stop	Week	Session	RI	Start	Stop	Total Epochs	Comments
10/21/14	294	15:29:34	16:51:24	1815	A	1 sec	228574.0	233484.0	4910.0	Sites A001-A002
10/21/14	294	17:13:02	18:03:30	1815	B	1 sec	234782.0	237810.0	3028.0	Sites A003-A004-A005
10/21/14	294	18:30:48	19:00:30	1815	C	1 sec	239448.0	241230.0	1782.0	Site A006
10/21/14	294	19:22:32	19:41:25	1815	D	1 sec	242552.0	243685.0	1133.0	Site A007
10/21/14	294	19:50:19	20:16:20	1815	E	1 sec	244219.0	245780.0	1561.0	Site A008
10/21/14	294	20:33:31	21:46:45	1815	F	1 sec	246811.0	251205.0	4394.0	Sites A009-A010-A011
10/22/14	295	13:53:57	16:47:55	1815	A	1 sec	309237.0	319675.0	10438.0	Sites A012-A013-A014
10/23/14	296	16:14:01	21:12:55	1815	A	1 sec	404041.0	421975.0	17934.0	Sites A015-A016-A017-A018-A019-A020-A021-A022-A023
10/24/14	297	14:00:25	18:12:45	1815	D	1 sec	482425.0	497565.0	15140.0	Sites A024-A025-A026-A027-A028-A029-A030-A031-A032-A033-A034
10/24/14	297	18:53:05	21:55:10	1815	E	1 sec	499985.0	510910.0	10925.0	Sites A035-A036-A037-A038-A039-A040-A041-A042
10/25/14	298	13:32:31	20:36:45	1815	A	1 sec	567151.0	592605.0	25454.0	Sites A043-A044-A045-A046-A047-A048-A049-A050-A051-A052-A053-A054
10/26/14	299	13:59:01	20:11:48	1816	A	1 sec	50341.0	72708.0	22367.0	Sites A055-A056-A057-A058-A059-A060-A061-A062-A063
10/26/14	299	20:13:29	21:31:35	1816	B	1 sec	72809.0	77495.0	4686.0	Site A064; > 30 min static occupation
10/28/14	301	17:33:31	17:41:50	1816	A	1 sec	236011.0	236510.0	499.0	Site A076
10/28/14	301	18:14:55	18:23:45	1816	B	1 sec	238495.0	239025.0	530.0	Site A077
10/28/14	301	19:06:32	19:12:35	1816	C	1 sec	241592.0	241955.0	363.0	Site A079
10/28/14	301	19:30:37	19:48:05	1816	D	1 sec	243037.0	244085.0	1048.0	Sites A080-A081
10/29/14	302	16:25:01	16:33:25	1816	A	1 sec	318301.0	318805.0	504.0	Site A090
10/29/14	302	16:54:43	17:05:00	1816	C	1 sec	320083.0	320700.0	617.0	Site A091
10/29/14	302	18:36:25	18:43:45	1816	D	1 sec	326185.0	326625.0	440.0	Site A095
10/29/14	302	19:50:11	20:01:10	1816	E	1 sec	330611.0	331270.0	659.0	Site A098
10/29/14	302	20:25:31	20:31:50	1816	F	1 sec	332731.0	333110.0	379.0	Site A099

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10/23/14	296	0:00:00	23:59:59	1815	A	1 sec	345600.0	431999.0	86399.0	2010ASIS008
10/24/14	297	0:00:00	23:59:59	1815	A	1 sec	432000.0	518399.0	86399.0	2010ASIS008
10/25/14	298	0:00:00	23:59:59	1815	A	1 sec	518400.0	604799.0	86399.0	2010ASIS008
10/26/14	299	0:00:00	23:59:59	1816	A	1 sec	0.0	86399.0	86399.0	2010ASIS008
10/27/14	300	0:00:00	23:59:59	1816	A	1 sec	86400.0	172799.0	86399.0	2010ASIS008; rinex file header is 24 hr vs OPUS solution stop time 12:40:30?
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10/21/14	294	14:L22:21	22:29:40	1815	A	1 sec	224541.0	253780.0	29239.0	BAYR
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10/29/14	302	0:00:00	6:11:47	1816	C	1 sec	259200.0	324707.0	65507.0	CH01
Kinematic Receiver Log			**Beach pole**							
		UTC Time		GPS			GPS Seconds			
Date	DOY	Start	Stop	Week	Session	RI	Start	Stop	Total Epochs	Comments
10/21/14	294	20:20:14	20:32:55	1815	A	1 sec	246014.0	246775.0	761.0	Site B001; antenna height = 181.8 cm
10/23/14	296	13:35:01	21:21:30	1815	A	1 sec	394501.0	422490.0	27989.0	GPR WTx4; kinematic only; antenna height (GPR backpack) = 2.22 m
10/24/14	297	13:14:01	22:09:05	1815	A	1 sec	479461.0	511745.0	32284.0	GPR and vegetation line WTx4; kinematic only
10/25/14	298	13:20:01	21:12:49	1815	A	1 sec	566401.0	594769.0	28368.0	GPR and vegetation line WTx1; kinematic only
10/26/14	299	13:17:36	19:00:30	1816	A	1 sec	47856.0	68430.0	20574.0	Sites B112-B113-B114-B115-B116-B117; see log for antenna height (variable)*
10/26/14	299	19:10:22	21:49:45	1816	B	1 sec	69022.0	78585.0	9563.0	GPR 400 MHz WTx1
										***DOY 299 Antenna Heights:**
										B112 = 2.05 m
										B113 = 2.02 m
										B114 = 2.02 m
										B115 = 2.04 m
										B116 = 182.4 cm
										B117 = 2.03 m