

BEES 02-005

From: opus@ngs.noaa.gov
Sent: Monday, August 14, 2006 11:55 AM
To: Freeland, Robert S
Subject: OPUS solution : log0725a.tps 000531363

FILE: log0725a.tps 000531363

NGS OPUS SOLUTION REPORT
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USER: rfreelan@utk.edu
RINEX FILE: log0206o.06o

DATE: August 14, 2006
TIME: 15:55:13 UTC

SOFTWARE: page5 0601.10 master11.pl
EPHEMERIS: igs13852.eph [precise]
NAV FILE: brdc2060.06n
ANT NAME: TPSHIPER_LITE NONE
ARP HEIGHT: 1.78283

START: 2006/07/25 14:25:00
STOP: 2006/07/25 21:12:00
OBS USED: 11416 / 12415 : 92%
FIXED AMB: 65 / 72 : 90%
OVERALL RMS: 0.022(m)

TRIMBLE GEOXT

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000)

ITRF00 (EPOCH:2006.5637)

X:	545653.865(m)	0.005(m)	545653.180(m)	0.005(m)
Y:	-5140642.316(m)	0.033(m)	-5140640.864(m)	0.033(m)
Z:	3723742.769(m)	0.019(m)	3723742.623(m)	0.019(m)
LAT:	35 56 56.07146	0.005(m)	35 56 56.09650	0.005(m)
E LON:	276 3 32.31986	0.002(m)	276 3 32.29880	0.002(m)
W LON:	83 56 27.68014	0.002(m)	83 56 27.70120	0.002(m)
EL HGT:	236.609(m)	0.038(m)	235.296(m)	0.038(m)
ORTHO HGT:	267.319(m)	0.045(m)	[Geoid03 NAVD88]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4100 TN)
Northing (Y) [meters]	3982280.688	181200.628
Easting (X) [meters]	234725.289	785741.781
Convergence [degrees]	-1.72757464	1.20540736
Point Scale	1.00046720	0.99995040
Combined Factor	1.00043005	0.99991327

US NATIONAL GRID DESIGNATOR: 17SKV3472582281(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DF5886	PSCC PELLISSIPPI STATE CORS ARP	N355653.517	W0841000.376	20368.6
DG4257	FRKN FRANKLIN CORS ARP	N351130.686	W0832341.747	97503.9
DH3874	NCSY SW COMMUNITY COLL CORS ARP	N352052.407	W0831223.390	94195.9

NEAREST NGS PUBLISHED CONTROL POINT

FB4049	GPS 0048	N355713.218	W0835624.751	535.3
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

Freeland, Robert S

From: opus@ngs.noaa.gov
Sent: Wednesday, July 26, 2006 5:26 PM
To: Freeland, Robert S
Subject: OPUS solution : log0725a.tps 000520758

FILE: log0725a.tps 000520758

NGS OPUS SOLUTION REPORT
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USER: rfreelan@utk.edu DATE: July 26, 2006
RINEX FILE: log0206o.06o TIME: 21:26:14 UTC

SOFTWARE: page5 0601.10 master30.pl START: 2006/07/25 14:25:00
EPHEMERIS: igr13852.eph [rapid] STOP: 2006/07/25 21:12:00
NAV FILE: brdc2060.06n OBS USED: 11416 / 12415 : 92%
ANT NAME: TPSHIPER_LITE NONE # FIXED AMB: 65 / 72 : 90%
ARP HEIGHT: 1.78283 OVERALL RMS: 0.022(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2006.5637)

X:	545653.865(m)	0.005(m)	545653.180(m)	0.005(m)
Y:	-5140642.316(m)	0.033(m)	-5140640.864(m)	0.033(m)
Z:	3723742.769(m)	0.019(m)	3723742.623(m)	0.019(m)
LAT:	35 56 56.07146	0.005(m)	35 56 56.09650	0.005(m)
E LON:	276 3 32.31986	0.002(m)	276 3 32.29880	0.002(m)
W LON:	83 56 27.68014	0.002(m)	83 56 27.70120	0.002(m)
EL HGT:	236.609(m)	0.038(m)	235.296(m)	0.038(m)
ORTHO HGT:	267.319(m)	0.045(m)	[Geoid03 NAVD88]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4100 TN)
Northing (Y) [meters]	3982280.688	181200.628
Easting (X) [meters]	234725.289	785741.781
Convergence [degrees]	-1.72757464	1.20540736
Point Scale	1.00046720	0.99995040
Combined Factor	1.00043005	0.99991327

US NATIONAL GRID DESIGNATOR: 17SKV3472582281(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DF5886	PSCC PELLISSIPPI STATE CORS ARP	N355653.517	W0841000.376	20368.6
DG4257	FRKN FRANKLIN CORS ARP	N351130.686	W0832341.747	97503.9
DH3874	NCSY SW COMMUNITY COLL CORS ARP	N352052.407	W0831223.390	94195.9

NEAREST NGS PUBLISHED CONTROL POINT

FB4049	GPS 0048	N355713.218	W0835624.751	535.3
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

Freeland, Robert S

From: opus@ngs.noaa.gov
Sent: Tuesday, July 25, 2006 5:36 PM
To: Freeland, Robert S
Subject: OPUS solution : log0725a.tps 000520150

FILE: log0725a.tps 000520150

2005 NOTE: The IGS precise and IGS rapid orbits were not available
2005 at processing time. The IGS ultra-rapid orbit was/will be used to
2005 process the data.
2005

NGS OPUS SOLUTION REPORT =====

USER: rfreelan@utk.edu DATE: July 25, 2006
RINEX FILE: log0206o.06o TIME: 21:36:22 UTC

SOFTWARE: page5 0601.10 master30.pl START: 2006/07/25 14:25:00
EPHEMERIS: igul3852.eph [ultra-rapid] STOP: 2006/07/25 20:59:30
NAV FILE: brdc2060.06n OBS USED: 10477 / 11652 : 90%
ANT NAME: TPSHIPER_LITE NONE # FIXED AMB: 72 / 85 : 85%
ARP HEIGHT: 1.78283 OVERALL RMS: 0.025(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2006.5636)

X:	545653.848(m)	0.061(m)	545653.163(m)	0.061(m)
Y:	-5140642.339(m)	0.048(m)	-5140640.887(m)	0.048(m)
Z:	3723742.772(m)	0.017(m)	3723742.626(m)	0.017(m)
LAT:	35 56 56.07114	0.026(m)	35 56 56.09618	0.026(m)
E LON:	276 3 32.31909	0.065(m)	276 3 32.29802	0.065(m)
W LON:	83 56 27.68091	0.065(m)	83 56 27.70198	0.065(m)
EL HGT:	236.628(m)	0.032(m)	235.315(m)	0.032(m)
ORTHO HGT:	267.338(m)	0.041(m)	[Geoid03 NAVD88]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4100 TN)
Northing (Y) [meters]	3982280.679	181200.618
Easting (X) [meters]	234725.269	785741.762
Convergence [degrees]	-1.72757476	1.20540724
Point Scale	1.00046720	0.99995040
Combined Factor	1.00043004	0.99991327

US NATIONAL GRID DESIGNATOR: 17SKV3472582281(NAD 83)

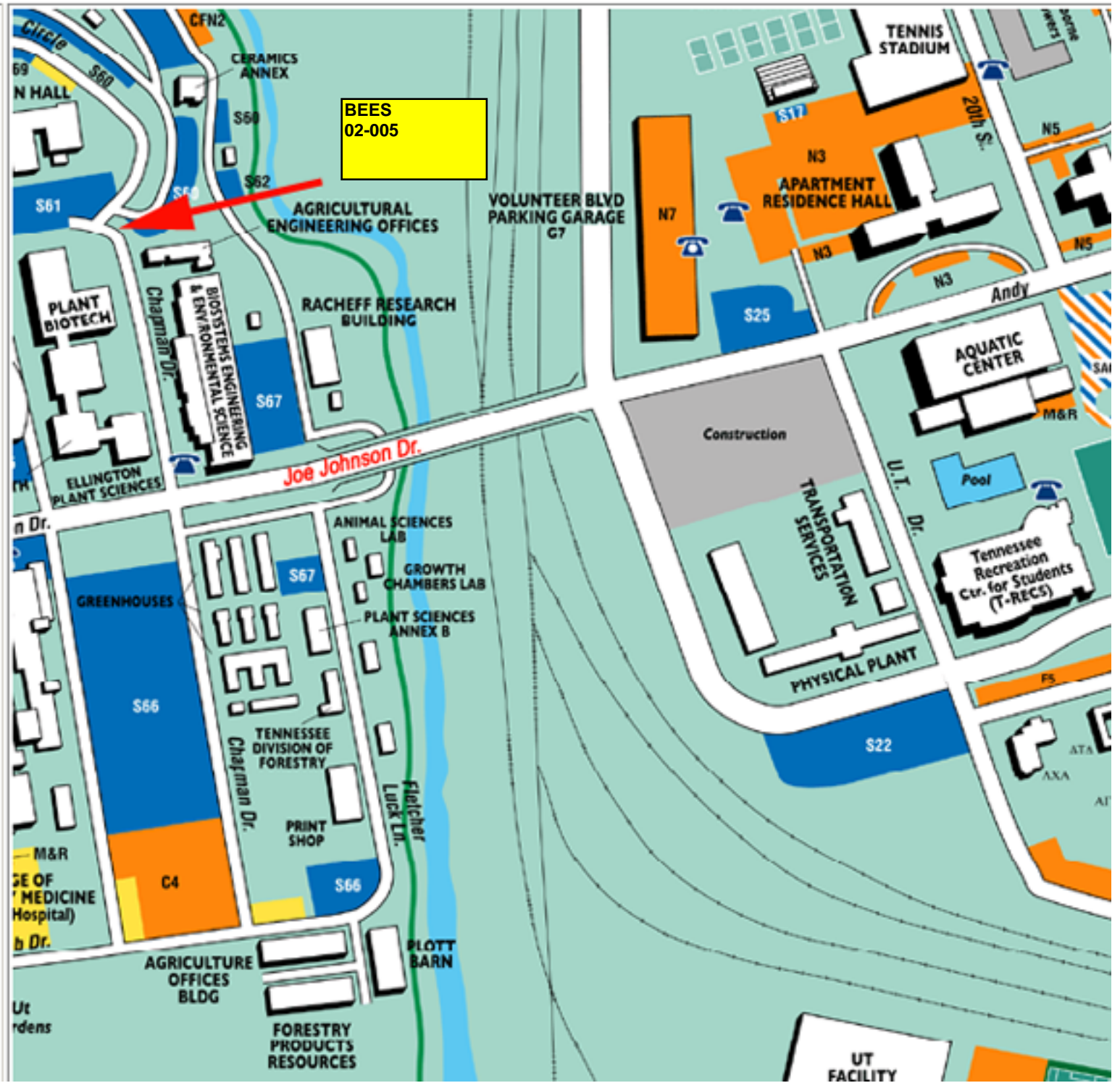
BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DH7123	KYSC SOMERSET CTR DEV CORS ARP	N370333.115	W0843709.031	137372.9
DH4146	GABR BLUE RIDGE CORS ARP	N345151.920	W0841937.609	125333.8
DF5886	PSCC PELLISSIPPI STATE CORS ARP	N355653.517	W0841000.376	20368.6

NEAREST NGS PUBLISHED CONTROL POINT

FB4049	GPS 0048	N355713.218	W0835624.751	535.3
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.



**BEES
02-005**

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BEES 02-005



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