

Freeland, Robert S

From: opus@ngs.noaa.gov
Sent: Saturday, September 02, 2006 7:08 AM
To: Freeland, Robert S
Subject: OPUS solution : log0814a.tps 000541661

BEES 02-001

FILE: log0814a.tps 000541661

NGS OPUS SOLUTION REPORT
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USER: rfreelan@utk.edu
RINEX FILE: log0226o.06o

DATE: September 02, 2006
TIME: 11:08:26 UTC

SOFTWARE: page5 0601.10 master12.pl
EPHEMERIS: igs13881.eph [precise]
NAV FILE: brdc2260.06n
ANT NAME: TSHIPER_LITE NONE
ARP HEIGHT: 1.78083

START: 2006/08/14 14:00:00
STOP: 2006/08/14 21:27:30
OBS USED: 13242 / 15621 : 85%
FIXED AMB: 90 / 107 : 84%
OVERALL RMS: 0.024(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2006.6185)

X:	545782.225(m)	0.008(m)	545781.539(m)	0.008(m)
Y:	-5140667.060(m)	0.022(m)	-5140665.608(m)	0.022(m)
Z:	3723677.560(m)	0.018(m)	3723677.414(m)	0.018(m)

LAT:	35 56 53.63205	0.004(m)	35 56 53.65710	0.004(m)
E LON:	276 3 37.30859	0.005(m)	276 3 37.28749	0.005(m)
W LON:	83 56 22.69141	0.005(m)	83 56 22.71251	0.005(m)
EL HGT:	229.217(m)	0.029(m)	227.903(m)	0.029(m)
ORTHO HGT:	259.926(m)	0.038(m)	[Geoid03 NAVD88]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4100 TN)
Northing (Y) [meters]	3982201.730	181128.093
Easting (X) [meters]	234848.049	785868.355
Convergence [degrees]	-1.72673154	1.20621864
Point Scale	1.00046640	0.99995038
Combined Factor	1.00043041	0.99991441

US NATIONAL GRID DESIGNATOR: 17SKV3484882202(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DG4257	FRKN FRANKLIN CORS ARP	N351130.686	W0832341.747	97375.4
DE8228	HAYW HAYWOOD CORS ARP	N353135.396	W0825530.127	103030.4
DG7400	NCMA MARSHALL CORS ARP	N354847.313	W0824122.673	113870.6

NEAREST NGS PUBLISHED CONTROL POINT

FB4049	GPS 0048	N355713.218	W0835624.751	607.8
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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.

From: opus@ngs.noaa.gov
Sent: Wednesday, August 16, 2006 8:36 AM
To: Freeland, Robert S
Subject: OPUS solution : log0814a.tps 000532488

FILE: log0814a.tps 000532488

NGS OPUS SOLUTION REPORT
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USER: rfreelan@utk.edu
RINEX FILE: log0226o.06o

DATE: August 16, 2006
TIME: 12:35:52 UTC

SOFTWARE: page5 0601.10 master.pl
EPHEMERIS: igr13881.eph [rapid]
NAV FILE: brdc2260.06n
ANT NAME: TPSHIPER_LITE NONE
ARP HEIGHT: 1.78083
START: 2006/08/14 14:00:00
STOP: 2006/08/14 21:28:00
OBS USED: 13190 / 15671 : 84%
FIXED AMB: 85 / 102 : 83%
OVERALL RMS: 0.024(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2006.6185)

X:	545782.225(m)	0.008(m)	545781.539(m)	0.008(m)
Y:	-5140667.061(m)	0.022(m)	-5140665.609(m)	0.022(m)
Z:	3723677.560(m)	0.018(m)	3723677.414(m)	0.018(m)
LAT:	35 56 53.63203	0.004(m)	35 56 53.65708	0.004(m)
E LON:	276 3 37.30859	0.005(m)	276 3 37.28748	0.005(m)
W LON:	83 56 22.69141	0.005(m)	83 56 22.71252	0.005(m)
EL HGT:	229.217(m)	0.029(m)	227.904(m)	0.029(m)
ORTHO HGT:	259.926(m)	0.038(m)	[Geoid03 NAVD88]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4100 TN)
Northing (Y) [meters]	3982201.730	181128.092
Easting (X) [meters]	234848.049	785868.355
Convergence [degrees]	-1.72673154	1.20621864
Point Scale	1.00046640	0.99995038
Combined Factor	1.00043041	0.99991441

US NATIONAL GRID DESIGNATOR: 17SKV3484882202(NAD 83)

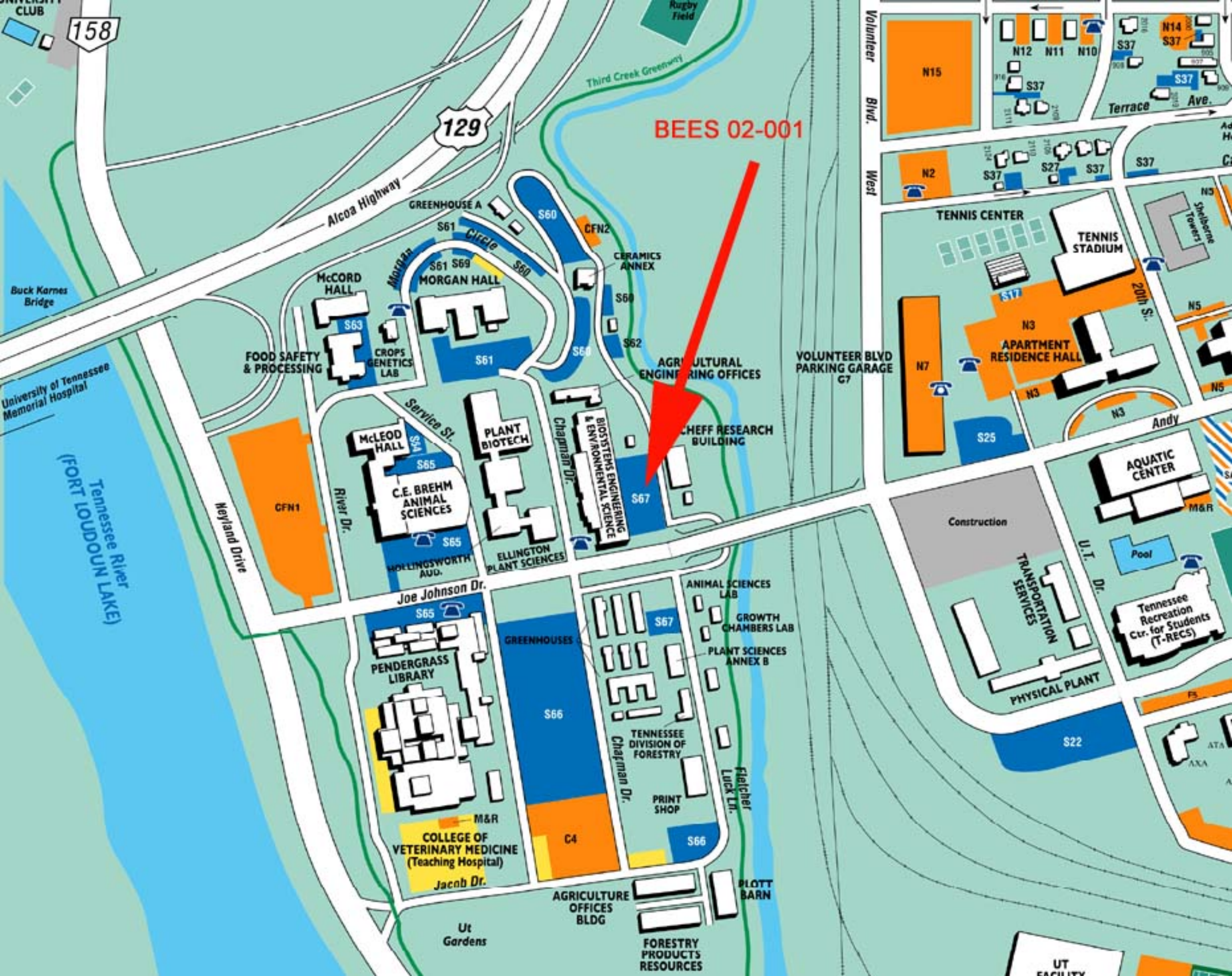
BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DG4257	FRKN FRANKLIN CORS ARP	N351130.686	W0832341.747	97375.4
DE8228	HAYW HAYWOOD CORS ARP	N353135.396	W0825530.127	103030.4
DG7400	NCMA MARSHALL CORS ARP	N354847.313	W0824122.673	113870.6

NEAREST NGS PUBLISHED CONTROL POINT

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Alcoa Highway

Third Creek Greenway

GREENHOUSE A

MORGAN HALL

McCORD HALL

FOOD SAFETY & PROCESSING

CROPS GENETICS LAB

AGRICULTURAL ENGINEERING OFFICES

CHEFF RESEARCH BUILDING

PLANT BIOTECH

C.E. BREHM ANIMAL SCIENCES

McLEOD HALL

ELLINGTON PLANT SCIENCES

BIOSYSTEMS ENGINEERING & ENVIRONMENTAL SCIENCE

Joe Johnson Dr.

PENDERGRASS LIBRARY

COLLEGE OF VETERINARY MEDICINE (Teaching Hospital)

GREENHOUSES

ANIMAL SCIENCES LAB

GROWTH CHAMBERS LAB

PLANT SCIENCES ANNEX B

TENNESSEE DIVISION OF FORESTRY

PRINT SHOP

AGRICULTURE OFFICES BLDG

FORESTRY PRODUCTS RESOURCES

BLOTT BARN

Ut Gardens

Volunteer Blvd. West

TENNIS CENTER

TENNIS STADIUM

APARTMENT RESIDENCE HALL

AQUATIC CENTER

Construction

TRANSPORTATION SERVICES

PHYSICAL PLANT

Tennessee Recreation Ctr. for Students (T-RECS)

UT FACILITY

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