

GAINESVILLE GNSS PORTAL

3/21/2012

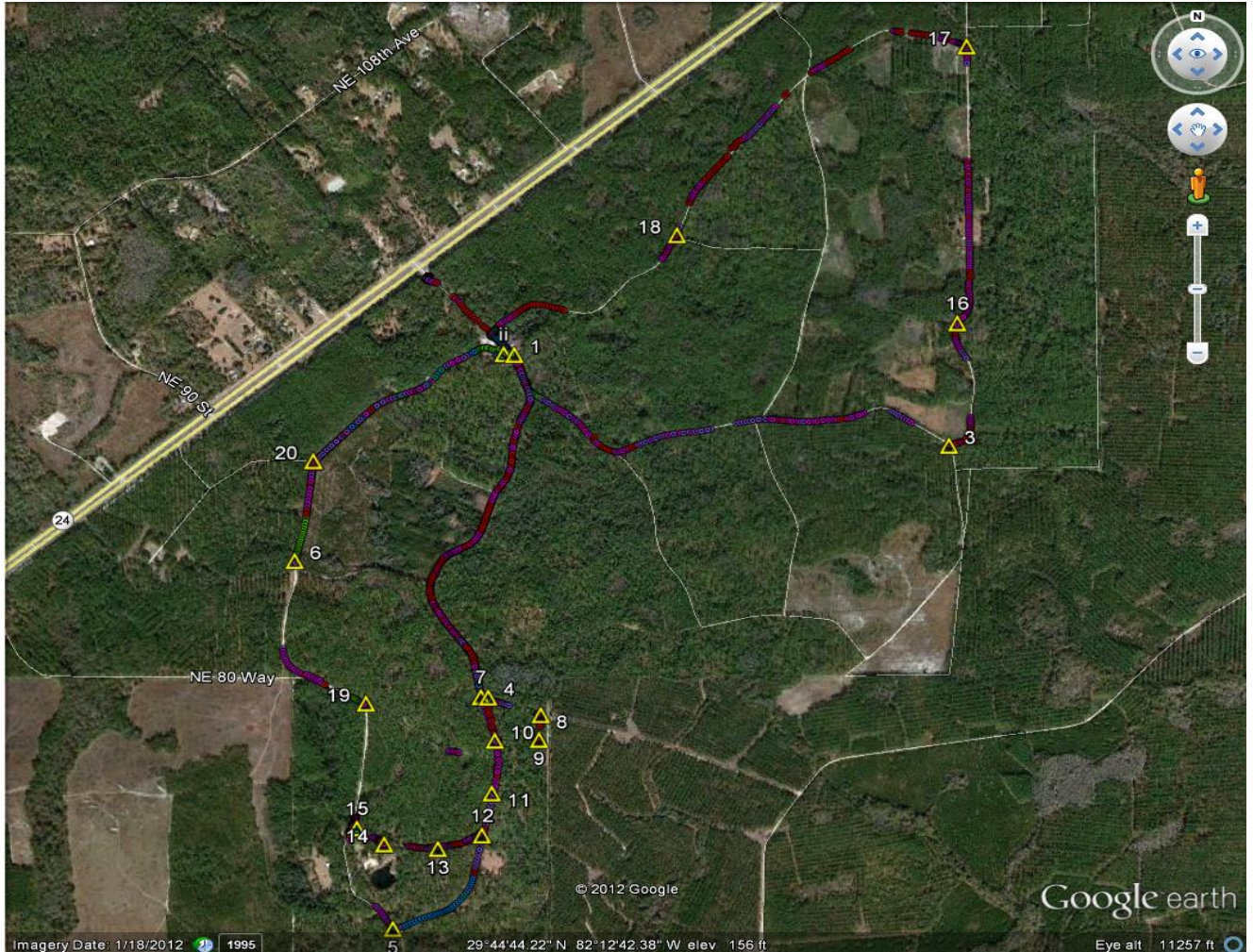
PROJECT: Austin Cary Memorial Forest Survey



We guarantee the accuracy of our report

JOB

Client Name	SFRC
Survey Date	March 15, 2009
Survey Time	10:00 am – 11:30 am EST
Filename	ACMF.ZIP



Pt	Enabled	ID	Antenna	Receiver	Position	Datum
Master1	Yes	GNVL	ASH701945 C_M	LEICA GRX1200PRO	29°41'11.55714", -82°16'36.73662", 23.923 m	NAD83_ CORS96 h-Ell
Master2	No	RLAB	NOV702_ 3.00	LEICA GRX1200PRO	29°38'52.21142", -82°20'53.05829", 26.624 m	
Remote	Yes	Multiple	TPSHIPE_ PLUS	TPSHIPER_ PLUS	see table on next page	

Source: http://alt.ngs.noaa.gov/cgi-cors/corsage_2.prl

POINT COORDINATES

Project: ACMF Survey

Program: GrafNav Version 8.10.2313 (GP-SPC_NAD83)

Process Info: Run (23) by USER on 02/09/2012 at 12:34:58

Datum: NAD83_CORS96

Map projection: U.S. State Plane (FL North 903)

Geoid: Geoid09

Height reported is for the antenna phase center; refer to note 1 to reduce it to the survey mark

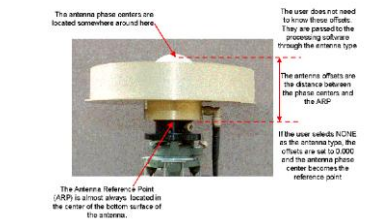
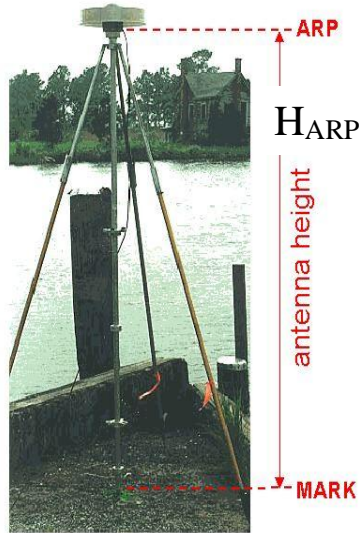
Pt	GPSTime (sec)	Latitude (D M S)			Longitude (D M S)			h-Ell (m)	H-MSL (m)	Easting (ft)	Northing (ft)	Q
GV	397997	29	44	58.9405	-82	12	56.51424	20.329	48.180	2693354.349	279909.239	1
ii	401182	29	44	58.82856	-82	12	56.80771	20.252	48.103	2693328.711	279897.414	1
1	398315	29	44	58.74102	-82	12	55.57273	20.418	48.269	2693437.729	279890.754	1
2	401893	29	45	7.87703	-82	13	5.5678	16.208	44.059	2692538.373	280795.832	4
3	405372	29	44	48.19094	-82	12	4.65682	16.761	44.613	2697946.540	278915.423	6
4	399227	29	44	18.97703	-82	12	58.63197	18.775	46.625	2693248.564	275869.265	1
5	407128	29	43	52.03878	-82	13	9.82832	13.577	41.427	2692316.124	273128.796	1
6	403942	29	44	34.83311	-82	13	21.27973	18.579	46.429	2691220.352	277430.766	1
7	398902	29	44	19.02314	-82	12	59.48376	18.860	46.710	2693173.393	275872.418	1
8	399733	29	44	16.93054	-82	12	52.48417	18.305	46.155	2693794.587	275673.432	2
9	400091	29	44	14.04469	-82	12	52.68607	17.621	45.472	2693782.634	275381.611	1
10	400494	29	44	13.9555	-82	12	57.85911	17.172	45.022	2693326.846	275363.465	6
11	408426	29	44	7.83201	-82	12	58.17564	14.002	41.852	2693311.336	274744.445	6
12	402420	29	44	2.93106	-82	12	59.38111	15.566	43.416	2693214.996	274247.330	1
13	402767	29	44	1.37487	-82	13	4.53858	16.519	44.369	2692763.532	274081.054	1
14	403139	29	44	1.90967	-82	13	10.82734	16.634	44.484	2692208.120	274123.976	1
15	407887	29	44	3.76703	-82	13	14.00749	17.995	45.845	2691924.051	274305.960	2
16	405737	29	45	2.41525	-82	12	3.73198	18.417	46.269	2697999.079	280353.692	6
17	406148	29	45	34.56162	-82	12	2.61882	20.053	47.905	2698031.700	283602.384	6
18	406567	29	45	12.63185	-82	12	36.5404	21.101	48.952	2695086.909	281327.354	2
19	403531	29	44	18.29347	-82	13	12.92535	19.133	46.983	2691990.097	275775.011	1
20	404319	29	44	46.41788	-82	13	19.07551	18.689	46.539	2691391.248	278604.689	5

NOTES:

1. Reduction of Antenna Height

- Measure the antenna height from the survey mark to the Antenna Reference Point (ARP) (HARP)
- Note the Antenna Phase Center offset (HAPC) from the antenna vendor documentation (also noted on the antenna back)
- Calculate the Mark corrected height as follows:

$$\text{Survey Mark Height} = \text{Reported Height} - H_{\text{ARP}} - H_{\text{APC}}$$



ARP-APC Height Correction

Antenna MARK-ARP Height

Source: <http://www.ngs.noaa.gov/OPUS/about.jsp#antennaheight>

2. Quality Factors

Quality	Color	Description	Accuracy [m]
1	Green	Fixed integer	0.00 - 0.15
2	Cyan	Converged float or noisy fixed integer	0.05 - 0.40
3	Blue	Converging float	0.20 - 1.00
4	Purple	Converging float	0.50 - 2.00
5	Magenta	DGPS	1.00 - 5.00
6	Red	DGPS	2.00 - 10.00
Unprocessed	Grey	Has not been processed	N/A

Source: Grafnav 8.1 software manual