

# Charles Owens

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**From:** opus@ngs.noaa.gov  
**Sent:** Tuesday, July 30, 2002 3:52 PM  
**To:** charles@burntchimney.com  
**Subject:** OPUS solution : bcsb1931.02o

FILE: bcsb1931.02o

1008 WARNING! Antenna offsets supplied by the user in the RINEX  
1008 header or via the web were zero. Coordinates returned will  
1008 be for the antenna reference point (ARP). Please refer to  
1008 the following web address for an example.  
1008 <http://www.ngs.noaa.gov/CORS/OPUS/Preprinfile.html>  
1008

## NGS OPUS SOLUTION REPORT =====

USER: charles\@burntchimney.com           DATE: July 30, 2002  
RINEX FILE: bcsb1931.02o                 TIME: 19:51:33 UTC

SOFTWARE: page5 0203.19 ./master.pl         START: 2002/07/12 14:12:00  
EPHEMERIS: igs11745.eph [precise]         STOP: 2002/07/12 19:05:00  
NAV FILE: brdc1930.02n                   OBS USED: 12211 / 12382 : 99%  
ANT NAME: ASH700700.C                   # FIXED AMB: 45 / 45 : 100%  
ARP HEIGHT: 0.0                         OVERALL RMS: 0.018(m)

REF FRAME: NAD83(CORS96)(EPOCH:2002.0000)     ITRF00 (EPOCH:2002.5279)

X:	737638.014(m)	0.009(m)	737637.391(m)	0.011(m)
Y:	-5156887.589(m)	0.020(m)	-5156886.113(m)	0.021(m)
Z:	3668243.817(m)	0.009(m)	3668243.661(m)	0.009(m)

LAT:	35 19 59.18353	0.006(m)	35 19 59.20848	0.006(m)
E LON:	278 8 25.20527	0.010(m)	278 8 25.18913	0.013(m)
W LON:	81 51 34.79473	0.010(m)	81 51 34.81087	0.013(m)
EL HGT:	287.162(m)	0.020(m)	285.808(m)	0.021(m)
ORTHO HGT:	319.188(m)	0.032(m)	[Geoid99 NAVD88]	

UTM:        Zone 17  
NORTHING:  3910323.311(m)  
EASTING:   421872.381(m)

SPC:        Zone 3200(NC)  
NORTHING:  179358.107(m)  
EASTING:   349678.781(m)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9641	ashv ASHEVILLE CORS ARP	N353558	W0823246	68972
AJ4434	gvlr GREENVILLE TECHNI CORS ARP	N344946	W0822215	72756
AJ5575	cono CONOVER CORS ARP	N354209	W0811400	70046

NEAREST NGS PUBLISHED CONTROL POINT

This position was computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.