

# Charles Owens

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**From:** opus@ngs.noaa.gov  
**Sent:** Thursday, October 03, 2002 1:45 PM  
**To:** charles@burntchimney.com  
**Subject:** OPUS solution : bcsb2491.02o

FILE: bcsb2491.02o

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

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USER: charles\@burntchimney.com                      DATE: October 03, 2002  
RINEX FILE: bcsb2491.02o                              TIME: 17:44:17 UTC

SOFTWARE: page5 0203.19 ./master.pl                      START: 2002/09/06 18:30:00  
EPHEMERIS: igs11825.eph [precise]                      STOP: 2002/09/06 23:02:00  
NAV FILE: brdc2490.02n                                  OBS USED: 8394 / 8738 : 96%  
ANT NAME: ASH700700.C                                  # FIXED AMB: 50 / 50 : 100%  
ARP HEIGHT: 0.0    OVERALL RMS: 0.017 (m)

REF FRAME: NAD83 (CORS96) (EPOCH:2002.0000)                      ITRF00 (EPOCH:2002.6818)

X:	737638.013 (m)	0.005 (m)	737637.388 (m)	0.005 (m)
Y:	-5156887.604 (m)	0.011 (m)	-5156886.128 (m)	0.011 (m)
Z:	3668243.820 (m)	0.011 (m)	3668243.665 (m)	0.011 (m)

LAT:	35 19 59.18334	0.004 (m)	35 19 59.20832	0.004 (m)
E LON:	278 8 25.20515	0.005 (m)	278 8 25.18893	0.006 (m)
W LON:	81 51 34.79485	0.005 (m)	81 51 34.81107	0.006 (m)
EL HGT:	287.176 (m)	0.015 (m)	285.822 (m)	0.015 (m)
ORTHO HGT:	319.202 (m)	0.029 (m)	[Geoid99 NAVD88]	

UTM:                      Zone 17  
NORTHING:                3910323.305 (m)  
EASTING:                 421872.378 (m)

US NATIONAL GRID DESIGNATOR: 17SMV2187210323 (NAD 83)

SPC:                      Zone 3200 (NC)  
NORTHING:                179358.101 (m)  
EASTING:                 349678.778 (m)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE (m)
AF9641	ASHV ASHEVILLE CORS ARP	N353558.011	W0823246.318	68972.0
AH6714	COLA COLUMBIA CORS ARP	N340451.557	W0810718.015	154483.5
AJ8051	CHME CHARLOTTE CORS ARP	N351635.972	W0805320.582	88500.1

### NEAREST NGS PUBLISHED CONTROL POINT

FA1334	RU 20	N352001.	W0815154.	487.7
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This position was computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

