

# Fred Wagner

From: opus [opus@NGS.NOAA.GOV]  
Sent: Wednesday, May 04, 2011 1:37 PM  
To: Fred Wagner  
Subject: OPUS solution : 7\_\_\_1190.11o 000219804

FILE: 7\_\_\_1190.11o 000219804

## NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [f.wagner@LounsburyInc.com](mailto:f.wagner@LounsburyInc.com) DATE: May 04, 2011  
RINEX FILE: 7\_\_\_119r.11o TIME: 21:37:01 UTC

SOFTWARE: page5 1009.28 master10.pl 121510 START: 2011/04/29 17:39:00  
EPOCH: igr16335.eph [rapid] STOP: 2011/04/30 02:22:00  
NAV FILE: brdc1190.11n OBS USED: 23279 / 26216 : 89%  
ANT NAME: LEIAX1202 NONE # FIXED AMB: 141 / 160 : 88%  
ARP HEIGHT: 1.328 OVERALL RMS: 0.014(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2003.0000) ITRF00 (EPOCH:2011.3258)

X:	-2592654.781(m)	0.020(m)	-2592655.779(m)	0.020(m)
Y:	-1493265.235(m)	0.019(m)	-1493264.228(m)	0.019(m)
Z:	5614059.436(m)	0.030(m)	5614059.710(m)	0.030(m)

LAT:	62 6 16.67912	0.020(m)	62 6 16.67292	0.020(m)
E LON:	209 56 24.78512	0.026(m)	209 56 24.69062	0.026(m)
W LON:	150 3 35.21488	0.026(m)	150 3 35.30938	0.026(m)
EL HGT:	89.511(m)	0.024(m)	89.922(m)	0.024(m)
ORTHO HGT:	80.450(m)	0.040(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 05)	SPC (5004 AK 4)
Northing (Y) [meters]	6889316.974	902587.047
Easting (X) [meters]	653434.374	496878.593
Convergence [degrees]	2.59907635	-0.05283547
Point Scale	0.99988839	0.99990012
Combined Factor	0.99987439	0.99988611

US NATIONAL GRID DESIGNATOR: SVPJ5343489316(NAD 83)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DF7929	UAAG U ALASKA COOP CORS ARP	N611127.856	W1494926.646	102570.7
DE9153	ZAN1 ANCHORAGE WAAS 1 CORS ARP	N611345.129	W1494648.805	98675.5
DL6456	ATW2 ATW2_AKDA_AK2000 CORS ARP	N613551.915	W1490756.159	74671.6

NEAREST NGS PUBLISHED CONTROL POINT

TT1427

J 105

N620612.

W1500338.

150.2

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.

# Fred Wagner

From: opus [opus@NGS.NOAA.GOV]  
Sent: Wednesday, May 04, 2011 1:42 PM  
To: Fred Wagner  
Subject: OPUS solution : 7\_\_1200.11o 000219806

FILE: 7\_\_1200.11o 000219806

## NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [f.wagner@LounsburyInc.com](mailto:f.wagner@LounsburyInc.com) DATE: May 04, 2011  
RINEX FILE: 7\_\_120c.11o TIME: 21:41:29 UTC

SOFTWARE: page5 1009.28 master10.pl 121510 START: 2011/04/30 02:25:00  
EPHEMERIS: igr16336.eph [rapid] STOP: 2011/04/30 19:57:00  
NAV FILE: brdc1200.11n OBS USED: 44280 / 51680 : 86%  
ANT NAME: LEIAX1202 NONE # FIXED AMB: 326 / 362 : 90%  
ARP HEIGHT: 1.352 OVERALL RMS: 0.015(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2003.0000) ITRF00 (EPOCH:2011.3273)

X:	-2592654.775(m)	0.035(m)	-2592655.773(m)	0.035(m)
Y:	-1493265.233(m)	0.006(m)	-1493264.226(m)	0.006(m)
Z:	5614059.451(m)	0.041(m)	5614059.725(m)	0.041(m)

LAT:	62 6 16.67952	0.038(m)	62 6 16.67332	0.038(m)
E LON:	209 56 24.78520	0.020(m)	209 56 24.69071	0.020(m)
W LON:	150 3 35.21480	0.020(m)	150 3 35.30929	0.020(m)
EL HGT:	89.521(m)	0.033(m)	89.933(m)	0.033(m)
ORTHO HGT:	80.460(m)	0.056(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 05)	SPC (5004 AK 4)
Northing (Y) [meters]	6889316.987	902587.060
Easting (X) [meters]	653434.375	496878.594
Convergence [degrees]	2.59907637	-0.05283544
Point Scale	0.99988839	0.99990012
Combined Factor	0.99987438	0.99988611

US NATIONAL GRID DESIGNATOR: 5VPJ5343489316(NAD 83)

## BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DF7929	UAAG U ALASKA COOP CORS ARP	N611127.856	W1494926.646	102570.7
DE9153	ZAN1 ANCHORAGE WAAS 1 CORS ARP	N611345.129	W1494648.805	98675.5
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