

JIME Site Information Form (site log)
Washington County Surveyor's Office

0. Form

Prepared by (full name) : Wei Han
Date Prepared : 2011-08-19
Report Type : UPDATE
If Update:
Previous Site Log : jime_20110722.log
Modified/Added Sections : 1, 2, 11

1. Site Identification of the GNSS Monument

Site Name : JIM ELAM
Four Character ID : JIME
Monument Inscription :
IERS DOMES Number : (A9)
CDP Number : (A4)
Monument Description : PILLAR
Height of the Monument : 53.430 m
Monument Foundation : (STEEL RODS, CONCRETE BLOCK, ROOF, etc)
Foundation Depth : 4 m
Marker Description : (CHISELLED CROSS/DIVOT/BRASS NAIL/etc)
Date Installed : 2011-07-06
Geologic Characteristic : (BEDROCK/CLAY/CONGLOMERATE/GRAVEL/SAND/etc)
Bedrock Type : (IGNEOUS/METAMORPHIC/SEDIMENTARY)
Bedrock Condition : (FRESH/JOINTED/WEATHERED)
Fracture Spacing : (1-10 cm/11-50 cm/51-200 cm/over 200 cm)
Fault zones nearby : (YES/NO/Name of the zone)
Distance/activity : (multiple lines)
Additional Information : 13 cm square steel plate with center pipe mounted on a steel I-beam on the roof of the Public Services Building.
This site was previously known as "WACO" but a pipe was added raising the new antenna up a meter or so.

2. Site Location Information

City or Town : Hillsboro
State or Province : Oregon
Country : USA
Tectonic Plate : North American
Approximate Position (ITRF)
X coordinate (m) : -2437364.023
Y coordinate (m) : -3754570.327
Z coordinate (m) : 4528307.712
Latitude (N is +) : 453123.22998
Longitude (E is +) : -1225925.89738
Elevation (m, ellips.) : 53.430
Additional Information : ARP ITRF00 POSITION (EPOCH 1997.0)
: Computed in Aug. 2011 using 14 days of data.
:

3. GNSS Receiver Information

3.1 Receiver Type : LEICA GR10
Satellite System : GPS+GLONASS
Serial Number : 1700300

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Firmware Version      : 1.10/4.007
Elevation Cutoff Setting : 0 deg
Date Installed        : 2011-05-20
Date Removed          : (CCYY-MM-DDThh:mmZ)
Temperature Stabiliz. : (none or tolerance in degrees C)
Additional Information : The receiver firmware version is also stated as
                        "1.10(404)". This receiver also tracks Galileo

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3. x Receiver Type      : (A20, from rcvr_ant.tab; see instructions)
    Satellite System    : (GPS/GLONASS/GPS+GLONASS)
    Serial Number       : (A20, but note the first A5 is used in SINEX)
    Firmware Version    : (A11)
    Elevation Cutoff Setting : (deg)
    Date Installed      : (CCYY-MM-DDThh:mmZ)
    Date Removed        : (CCYY-MM-DDThh:mmZ)
    Temperature Stabiliz. : (none or tolerance in degrees C)
    Additional Information : (multiple lines)

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4. GNSS Antenna Information

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4. 1 Antenna Type      : LEIAS10
    Serial Number       : 10461001
    Antenna Reference Point : BPA
    Marker->ARP Up Ecc. (m) : 0.0000
    Marker->ARP North Ecc(m) : 0.0000
    Marker->ARP East Ecc(m) : 0.0000
    Alignment from True N : 0 deg
    Antenna Radome Type   : NONE
    Radome Serial Number :
    Antenna Cable Type    : Custom built based on Leica's specifications
    Antenna Cable Length  : 24.3 m
    Date Installed        : 2011-07-06
    Date Removed          : (CCYY-MM-DDThh:mmZ)
    Additional Information : (multiple lines)

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4. x Antenna Type      : (A20, from rcvr_ant.tab; see instructions)
    Serial Number       : (A*, but note the first A5 is used in SINEX)
    Antenna Reference Point : (BPA/BCR/XXX from "antenna.gra"; see instr.)
    Marker->ARP Up Ecc. (m) : (F8.4)
    Marker->ARP North Ecc(m) : (F8.4)
    Marker->ARP East Ecc(m) : (F8.4)
    Alignment from True N : (deg; + is clockwise/east)
    Antenna Radome Type   : (A4 from rcvr_ant.tab; see instructions)
    Radome Serial Number :
    Antenna Cable Type    : (vendor & type number)
    Antenna Cable Length  : (m)
    Date Installed        : (CCYY-MM-DDThh:mmZ)
    Date Removed          : (CCYY-MM-DDThh:mmZ)
    Additional Information : (multiple lines)

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5. Surveyed Local Ties

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5. x Tied Marker Name      :
    Tied Marker Usage      : (SLR/VLBI/LOCAL CONTROL/FOOTPRINT/etc)
    Tied Marker CDP Number : (A4)
    Tied Marker DOMES Number : (A9)
    Differential Components from GNSS Marker to the tied monument (ITRS)
    dx (m)                 : (m)
    dy (m)                 : (m)
    dz (m)                 : (m)
    Accuracy (mm)         : (mm)

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jime_log.txt
Survey method : (GPS CAMPAIGN/TRI LATERATI ON/TRI ANGULATI ON/etc)
Date Measured : (CCYY-MM-DDTh: mmZ)
Additi onal Informati on : (mul ti pl e l i nes)

6. Frequency Standard

6.1 Standard Type : (INTERNAL or EXTERNAL H-MASER/CESIUM/etc)
Input Frequency : (if external)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (mul ti pl e l i nes)

6.x Standard Type : (INTERNAL or EXTERNAL H-MASER/CESIUM/etc)
Input Frequency : (if external)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (mul ti pl e l i nes)

7. Col locati on Informati on

7.1 Instrumentation Type : GPS
Status : PERMANENT
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (mul ti pl e l i nes)

7.x Instrumentation Type : (GPS/GLONASS/DORI S/PRARE/SLR/VLBI /TI ME/etc)
Status : (PERMANENT/MOBI LE)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (mul ti pl e l i nes)

8. Meteorol ogi cal Instrumentati on

8.1.1 Humi di ty Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy (% rel h) : (% rel h)
Aspiration : (UNASPI RATED/NATURAL/FAN/etc)
Height Di ff to Ant : (m)
Cal i brati on date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (mul ti pl e l i nes)

8.1.x Humi di ty Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy (% rel h) : (% rel h)
Aspiration : (UNASPI RATED/NATURAL/FAN/etc)
Height Di ff to Ant : (m)
Cal i brati on date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (mul ti pl e l i nes)

8.2.1 Pressure Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy : (hPa)
Height Di ff to Ant : (m)
Cal i brati on date : (CCYY-MM-DD)

- Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)
- 8.2.x Pressure Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy : (hPa)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)
- 8.3.1 Temp. Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy : (deg C)
Aspiration : (UNASPI RATED/NATURAL/FAN/etc)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)
- 8.3.x Temp. Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy : (deg C)
Aspiration : (UNASPI RATED/NATURAL/FAN/etc)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)
- 8.4.1 Water Vapor Radiometer :
Manufacturer :
Serial Number :
Distance to Antenna : (m)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)
- 8.4.x Water Vapor Radiometer :
Manufacturer :
Serial Number :
Distance to Antenna : (m)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)
- 8.5.1 Other Instrumentation : (multiple lines)
- 8.5.x Other Instrumentation : (multiple lines)
9. Local Ongoing Conditions Possibly Affecting Computed Position
- 9.1.1 Radio Interferences : (TV/CELL PHONE ANTENNA/RADAR/etc)
Observed Degradations : (SN RATIO/DATA GAPS/etc)

Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
 Additional Information : (multiple lines)

9.1.x Radio Interferences : (TV/CELL PHONE ANTENNA/RADAR/etc)
 Observed Degradations : (SN RATIO/DATA GAPS/etc)
 Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
 Additional Information : (multiple lines)

9.2.1 Multipath Sources : (METAL ROOF/DOME/VLBI ANTENNA/etc)
 Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
 Additional Information : (multiple lines)

9.2.x Multipath Sources : (METAL ROOF/DOME/VLBI ANTENNA/etc)
 Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
 Additional Information : (multiple lines)

9.3.1 Signal Obstructions : (TREES/BUILDINGS/etc)
 Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
 Additional Information : (multiple lines)

9.3.x Signal Obstructions : (TREES/BUILDINGS/etc)
 Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
 Additional Information : (multiple lines)

10. Local Episodic Effects Possibly Affecting Data Quality

10.1 Date : (CCYY-MM-DD/CCYY-MM-DD)
 Event : (TREE CLEARING/CONSTRUCTION/etc)

10.x Date : (CCYY-MM-DD/CCYY-MM-DD)
 Event : (TREE CLEARING/CONSTRUCTION/etc)

11. On-Site, Point of Contact Agency Information

Agency : Washington County Surveyor's Office
 Preferred Abbreviation : WACOSO
 Mailing Address : 155 N. First Ave.
 Hillsboro, Oregon 97124

Primary Contact
 Contact Name : Jim Elam, PLS, CWRE
 Telephone (primary) : 503-846-3405
 Telephone (secondary) :
 Fax :
 E-mail : Jim_Elam@co.washington.or.us

Secondary Contact
 Contact Name : George Wisser
 Telephone (primary) : 503-846-7891
 Telephone (secondary) :
 Fax :
 E-mail : george_wisser@co.washington.or.us
 Additional Information : Wei Han, system support
 wei_han@co.washington.or.us

12. Responsible Agency (if different from 11.)

Agency : (multiple lines)
 Preferred Abbreviation : (A10)
 Mailing Address : (multiple lines)
 Primary Contact
 Contact Name :
 Telephone (primary) :

Telephone (secondary) :
 Fax :
 E-mail :
 Secondary Contact :
 Contact Name :
 Telephone (primary) :
 Telephone (secondary) :
 Fax :
 E-mail :
 Additional Information : (multiple lines)

13. More Information

Primary Data Center :
 Secondary Data Center :
 URL for More Information :
<http://www.co.washington.or.us/LUT/Divisions/Survey/index.cfm>
 Hardcopy on File :
 Site Map : (Y or URL)
 Site Diagram : (Y or URL)
 Horizon Mask : (Y or URL)
 Monument Description : (Y or URL)
 Site Pictures : Y
 Additional Information : (multiple lines)
 Antenna Graphics with Dimensions :
<http://www.ngs.noaa.gov/ANTCAL>