

JIME Site Information Form  
WACOSU Continuously Operating Reference Station  
See Instructions at:

ftp://igscb.jpl.nasa.gov/pub/station/general/sitelog\_instr.txt

0. Form

Prepared by (full name) : cors-adm  
Date Prepared : 2013-08-06  
Report Type : UPDATE  
If Update:  
Previous Site Log : jime\_20110720.log  
Modified/Added Sections : 2 3 4

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/BRASS PLATE/STEEL  
MAST/etc)  
Height of the Monument : 53.432 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) : -2437364.088  
Y coordinate (m) : -3754570.294  
Z coordinate (m) : 4528307.678  
Latitude (N is +) : +453123.23  
Longitude (E is +) : -1225925.90  
Elevation (m,ellips.) : 53.0  
Additional Information : ARP IGS08 POSITION (EPOCH  
2005.00)  
: Computed in Dec 2011 using 127  
days of data.

## 3. GNSS Receiver Information

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

3.x Receiver Type : (A20, from rcvr\_ant.tab; see  
instructions)  
Satellite System : (GPS+GLO+GAL+BDS+QZSS+SBAS)  
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)

## 4. GNSS Antenna Information

4.1 Antenna Type : LEIAS10 NONE  
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)

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)

5. Surveyed Local Ties

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)
Survey method                : (GPS
CAMPAIGN/TRILATERATION/TRIANGULATION/etc)
Date Measured                : (CCYY-MM-DDThh:mmZ)
Additional Information       : (multiple lines)

```

## 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 : (multiple lines)

6.x Standard Type : (INTERNAL or EXTERNAL H-MASER/CESIUM/etc)  
Input Frequency : (if external)  
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)  
Notes : (multiple lines)

## 7. Collocation Information

7.1 Instrumentation Type : GPS  
Status : PERMANENT  
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)  
Notes : (multiple lines)

7.x Instrumentation Type :  
(GPS/GLONASS/DORIS/PRARE/SLR/VLBI/TIME/etc)  
Status : (PERMANENT/MOBILE)  
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)  
Notes : (multiple lines)

## 8. Meteorological Instrumentation

8.1.1 Humidity Sensor Model :  
Manufacturer :  
Serial Number :  
Data Sampling Interval : (sec)  
Accuracy (% rel h) : (% rel h)  
Aspiration : (UNASPIRATED/NATURAL/FAN/etc)  
Height Diff to Ant : (m)  
Calibration date : (CCYY-MM-DD)  
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)  
Notes : (multiple lines)

8.1.x Humidity Sensor Model :  
Manufacturer :  
Serial Number :  
Data Sampling Interval : (sec)  
Accuracy (% rel h) : (% rel h)  
Aspiration : (UNASPIRATED/NATURAL/FAN/etc)  
Height Diff to Ant : (m)  
Calibration date : (CCYY-MM-DD)  
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)

```

Notes : (multiple lines)

8.2.1 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)

8.2.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 : (UNASPIRATED/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 : (UNASPIRATED/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 : Scott Young  
Telephone (primary) : 503-846-7933  
Telephone (secondary) :  
Fax :  
E-mail : scott\_young@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>