

0. Form

Prepared by (full name) : Francine Coloma
Date Prepared : 2015-09-29
Report Type : UPDATE
If Update:
Previous Site Log : dp2a_20150324.log
Modified/Added Sections : 3.5 3.6 3.7

1. Site Identification of the GNSS Monument

Site Name : Dupage Cnty 2 Coo
Four Character ID : DP2A
Monument Inscription :
IERS DOMES Number : (A9)
CDP Number : (A4)
Monument Description : ANTENNA MOUNTED ON ROOF
Height of the Monument : (m)
Monument Foundation : Concrete structure
Foundation Depth : (m)
Marker Description : (CHISELLED CROSS/DIVOT/BRASS NAIL/etc)
Date Installed : 2003-11-21T00:00Z
Geologic Characteristic : ALLUVIUM/BEDROCK (SAWMILL SOILS)
Bedrock Type : SEDIMENTARY
Bedrock Condition : FRESH
Fracture Spacing : 1-10 cm
Fault zones nearby : YES - Sanswich Fault
Distance/activity : inactive
Additional Information : Antenna mounted atop Flood Control Structure
at : Elmhurst Stone Quarry

2. Site Location Information

City or Town : Elmhurst
State or Province : Illinois
Country : United States
Tectonic Plate : North American
Approximate Position (ITRF)
X coordinate (m) : 168804.480
Y coordinate (m) : -4751529.876
Z coordinate (m) : 4237492.448
Latitude (N is +) : +415401.36
Longitude (E is +) : -0875755.25
Elevation (m,ellips.) : 176.8
Additional Information : ARP IGS08 POSITION (EPOCH 2005.00)
: Computed in Aug 2011 using data through gpswk
: 1631.

3. GNSS Receiver Information

- 3.1 Receiver Type : LEICA SR530
Satellite System : GPS
Serial Number : 82135
Firmware Version : 4.0
Elevation Cutoff Setting : 10 deg
Date Installed : 2003-11-21
Date Removed : 2004-03-04
Temperature Stabiliz. : (none or tolerance in degrees C)
Additional Information : Removed for diagnostic testing. Receiver
: suffered series of unexplicable lockups and
: power failures.
- 3.2 Receiver Type : LEICA RS500
Satellite System : GPS
Serial Number : 82136
Firmware Version : 4.0
Elevation Cutoff Setting : 10 deg
Date Installed : 2004-03-04
Date Removed : 2004-10-21
Temperature Stabiliz. : (none or tolerance in degrees C)
Additional Information : Replacement receiver on loan.
- 3.3 Receiver Type : LEICA SR530
Satellite System : GPS
Serial Number : 82137
Firmware Version : 5.0
Elevation Cutoff Setting : 10 deg
Date Installed : 2004-10-21
Date Removed : 2008-10-30
Temperature Stabiliz. : (none or tolerance in degrees C)
Additional Information : Replaced / Upgraded
- 3.4 Receiver Type : LEICA GRX1200GGPRO
Satellite System : GPS+GLO
Serial Number : 355683
Firmware Version : 6.00/3.015
Elevation Cutoff Setting : 10 deg
Date Installed : 2008-10-30
Date Removed : 2009-08-06
Temperature Stabiliz. : (none or tolerance in degrees C)
Additional Information : Firmware upgrade.
- 3.5 Receiver Type : LEICA GRX1200GGPRO
Satellite System : GPS+GLO
Serial Number : 355683
Firmware Version : 7.53
Elevation Cutoff Setting : 10 deg
Date Installed : 2009-08-06
Date Removed : 2010-05-13T19:41Z
Temperature Stabiliz. : (none or tolerance in degrees C)
Additional Information : (multiple lines)

3.6 Receiver Type : LEICA GRX1200GGPRO
 Satellite System : GPS+GLO
 Serial Number : 355683
 Firmware Version : 7.80
 Elevation Cutoff Setting : 10 deg
 Date Installed : 2010-05-13T19:41Z
 Date Removed : 2011-12-09T20:00Z
 Temperature Stabiliz. : (none or tolerance in degrees C)
 Additional Information : (multiple lines)

3.7 Receiver Type : LEICA GRX1200GGPRO
 Satellite System : GPS+GLO
 Serial Number : 355683
 Firmware Version : 8.20/3.055
 Elevation Cutoff Setting : 10 deg
 Date Installed : 2011-12-09T20:00Z
 Date Removed : (CCYY-MM-DDThh:mmZ)
 Temperature Stabiliz. : (none or tolerance in degrees C)
 Additional Information : (multiple lines)

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 : LEIAT504 LEIS
 Serial Number : 886
 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 : (deg; + is clockwise/east)
 Antenna Radome Type : LEIS
 Radome Serial Number :
 Antenna Cable Type : Exterior Coax
 Antenna Cable Length : 15 m
 Date Installed : 2003-11-21
 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 : 2003-11-21
 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 Interference : (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 Interference : (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 : DuPage County / GIS Division
 Preferred Abbreviation : DCOGIS
 Mailing Address : 421 N County Farm Rd
 : Wheaton. IL 60187-3989

Primary Contact
 Contact Name : Robb Schuldt
 Telephone (primary) : 630-407-5022
 Telephone (secondary) :
 Fax :
 E-mail : robert.schuldt@dupageco.org

Secondary Contact
 Contact Name : Mike Semenek
 Telephone (primary) : 630-407-5055
 Telephone (secondary) :
 Fax :
 E-mail : benchmarks@dupageco.org

Additional Information : gish@dupageco.org

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 : <ftp://geodesy.noaa.gov/cors>
Secondary Data Center : <ftp://alt.ngs.noaa.gov/cors>
URL for More Information : <http://geodesy.noaa.gov/CORS>
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 or URL)
Additional Information : (multiple lines)
Antenna Graphics with Dimensions

<ftp://www.igs.org/pub/station/general/antenna.gra>