

0. Form

Prepared by (full name) : cors-adm  
Date Prepared : 2015-03-24  
Report Type : UPDATE  
If Update:  
Previous Site Log : dp3a\_20130814.log  
Modified/Added Sections : 1 2 11

1. Site Identification of the GNSS Monument

Site Name : NAPERVILLE COOP  
Four Character ID : DP3A  
Monument Inscription :  
IERS DOMES Number : (A9)  
CDP Number : (A4)  
Monument Description : STEEL MAST  
Height of the Monument : (m)  
Monument Foundation : Side of ROOF  
Foundation Depth : (m)  
Marker Description : (CHISELLED CROSS/DIVOT/BRASS NAIL/etc)  
Date Installed : 2004-10-05T00:00Z  
Geologic Characteristic : GLACIAL TILL/BEDROCK  
Bedrock Type : SEDIMENTARY  
Bedrock Condition : FRESH  
Fracture Spacing : 1-10 cm  
Fault zones nearby : YES Sandwich Fault  
Distance/activity : inactive  
Additional Information : ANTENNA MOUNTED ON ROOF OF  
: NAPERVILLE POLICE STATION

2. Site Location Information

City or Town : Naperville  
State or Province : Illinois  
Country : United States  
Tectonic Plate : North American  
Approximate Position (ITRF)  
X coordinate (m) : 151578.575  
Y coordinate (m) : -4762165.689  
Z coordinate (m) : 4226286.328  
Latitude (N is +) : +414553.49  
Longitude (E is +) : -0881036.86  
Elevation (m,ellips.) : 191.0  
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 : 034785  
Firmware Version : 4.2  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2004-10-12  
Date Removed : 2005-01-12  
Temperature Stabiliz. : (none or tolerance in degrees C)  
Additional Information : (multiple lines)
- 3.2 Receiver Type : LEICA SR530  
Satellite System : GPS  
Serial Number : 132129  
Firmware Version : 5.0  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2005-01-12  
Date Removed : 2007-11-01  
Temperature Stabiliz. : (none or tolerance in degrees C)  
Additional Information : (multiple lines)
- 3.3 Receiver Type : LEICA GRX1200GGPRO  
Satellite System : GPS+GLO  
Serial Number : 355298  
Firmware Version : 5.60/3.014  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2007-11-01  
Date Removed : 2009-06-11  
Temperature Stabiliz. : (none or tolerance in degrees C)  
Additional Information : Firmware upgrade.
- 3.4 Receiver Type : LEICA GRX1200GGPRO  
Satellite System : GPS+GLO  
Serial Number : 355298  
Firmware Version : 7.5  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2009-06-11  
Date Removed : 2009-08-04  
Temperature Stabiliz. : (none or tolerance in degrees C)  
Additional Information : Firmware upgrade.
- 3.5 Receiver Type : LEICA GRX1200GGPRO  
Satellite System : GPS+GLO  
Serial Number : 355298  
Firmware Version : 7.50  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2009-08-04  
Date Removed : 2013-05-02T15:00Z  
Temperature Stabiliz. : (none or tolerance in degrees C)  
Additional Information : Receiver replaced for GNSS capability

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3.6 Receiver Type           : LEICA GR10
    Satellite System       : GPS+GLO
    Serial Number          : 1701559
    Firmware Version       : 2.62/6.112
    Elevation Cutoff Setting : 5 deg
    Date Installed         : 2013-05-02T18:00Z
    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          : 1391
    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   : 35 m
    Date Installed         : 2003-10-05
    Date Removed           : 2013-05-02T15:00Z
    Additional Information  : Antenna replaced for GNSS capability

4.2 Antenna Type           : LEIAS10           NONE
    Serial Number          : 12411020
    Antenna Reference Point : BAM
    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     : NONE
    Radome Serial Number    :
    Antenna Cable Type     : Exterior Coax
    Antenna Cable Length   : 35 m
    Date Installed         : 2013-05-02T18:00Z
    Date Removed           : (CCYY-MM-DDThh:mmZ)
    Additional Information  : 06-MAY-2013 fix radome type

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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)

## 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 : 2004-10-12  
 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 : gis@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>