| DOAR | Station Des | gnation: | (check applicable: FBN / CBN / PAC / SAC / BM) | | | | Statio | on PID, if a | ny: | Date (UTC |): |
|---|---------------------------------------|----------------|--|-------|--|---|---|---------------------|---|-------------------------|------------------------------|
| GPS STATION OBSERVATION LOG | General Location: Airport ID, if any: | | | | Station 4-Character ID: | | Day of Year: | | | | |
| (01-Nov-2000) Project Name: | | | Project Number: | | | | Statio | on Serial # | (SSN): | Session ID | D:(A,B,C etc) |
| NAD83 Latitude NAD83 L | | | GPS- ongitude NAD83 Ellipsoidal Height | | | | Ager | ncy Full Na | me: | | |
| 0 ' " 0 | | | " meters NAVD88 Orthometric Ht. | | | | | Operator Full Name: | | | |
| Observation Session Times (UTC): Epoch Sched. Start Stop Interval= | | | metersSeconds GFOID99 Geoid Height | | | Phone #: () | | | | | |
| Actual Start Stop Stop Mask = | | | n | | | e-mail address: | | | | | |
| GPS Receiver: Manufacturer & Model: | | | GPS Antenna: Manufacturer & Model: | | | | Antenna plumb before session? (Y / N) Circle Antenna plumb after session? (Y / N) Yes or No Antenna oriented to true North? (Y / N) -If no, Weather observed at antenna ht. (Y / N) explain | | | | |
| P/N: | | | P/N: | | | | Antenna ground plane used? (Y / N) " | | | | |
| S/N: Firmware Version: " CamCorder Battery, " 12V DC, " 110V AC, " Other | | | S/N: Cable Length, meters: Vehicle is Parked meters (direction) from antenna. | | | | Antenna radome used? (Y / N) If yes, Eccentric occupation (>0.5 mm)? (Y / N) describe. Any obstructions above 10°? (Y / N) Use Radio interference source nearby (Y / N) Vis. form | | | | |
| Tripod or Ant. Mount: Check one: " Fixed-Height Tripod, " Slip-Leg Tripod, " Fixed Mount | | | ** ANTENNA HEIGHT ** (see back of form for measurement illustration) | | | | Before Session Begins: measure and record both Meters AND Feet | | After Session Ends: measure and record both Meters AND Feet | | |
| Manufacturer & Mo | Manufacturer & Model: P/N: | | A= Datum point to Top of Tripod (Tripod Height) | | | Т | Т | | | | |
| S/N: | | | B =Additional offset to ARP if any (Tribrach/Spacer) | | | | | | | | |
| Last Calibration date: | | | H= Antenna Height = A + B | | | ┢ | | | | | |
| Tribrach: Check one: " None, " Wild GDF 22, " Topcon, " Other (describe) | | | = Datum Point to Antenna Reference Point (ARP) | | | | | | | | |
| Last Calibration date: | | | | | | Please note &/or sketch ANY unusual conditions. Be Very Explicit as to where and how Measured! | | | | | |
| Barometer: Manufacturer & Mo | odel: | Weather DATA | Time (UTC) | | ulb Temp eit Celsius | WetBulb Fahrenheit | | Rel. % Humidity | | Pressure Hg millibar | Weather Codes * |
| P/N: S/N: | | Before | | | | | | | | | |
| Last Calibration or | check Date: | Middle | | | | | | | | | |
| Psychromet Manufacturer & Mo | | After | | | | | | | | | |
| S/N: | Average of Readings | | | 3 | | | | | | | * See back of form for codes |
| Remarks, C | | | | ches, | Pencil | Rubbing | , etc: | | | | |
| Note: Entries are F Data File Name(s) | | Unsnaded areas | 5. | | | on Description: | | | nitted earlie | | CHECKED |
| (Standard NGS Format = aaaaddds.xxx) where aaaa=4-Character ID, ddd=Day of Year, s=Session ID, xxx=file dependant extension | | | | | isibility Obstr hotographs o encil Rubbing | of Station: | AttacheAttacheAttache | ed "Subm | nitted earlie nitted earlie | | BY: |

ILLUSTRATION FOR ANTENNA HEIGHT MEASUREMENTS:

I. Instructions for Fixed-Height Tripods:

Measure & record the fixed-height tripod length (A) and other offsets, if any, between the tripod and the Antenna Reference Point (ARP) (B)

Antenna.Height=H=A+B

II. Instructions for Slip-Leg Tripods:

1. Measure the Slant Height (S)

Measure the slope distance from the mark to at least three notches on the Bottom of Ground Plane (BGP) using two independent rulers (e.g., metric and Imperial). Record measurements in the table below, and compute the average.

| Measure S | Notch #_ | Notch #_ | Notch #_ | Average | |
|---------------|------------|-------------|----------|---------|--|
| Before, cm | | | | | |
| Before, inch | | | | | |
| After, cm | | | | | |
| After, inch | | | | | |
| Note: cm= inc | h x (2.54) | Overall ave | | | |

S = _____ cm

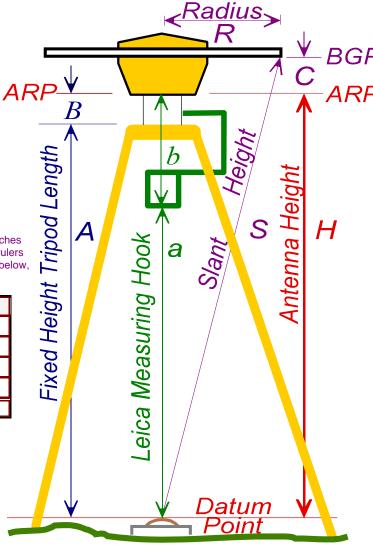
2. Record the Antenna Radius (R) and the Antenna Constant (C)

The antenna radius (R) is the horizontal distance from the center of the antenna to the measurement notch. The antenna constant (C) is the vertical distance from the ARP to the BGP. Consult your antenna users manual for exact measurements.

R = _____ cm

3. Compute Antenna Height (H)

Use the following Pythagorean equation:



III. Instructions for using the Leica Brand Measuring Hook:

Follow the Leica operating instructions, being sure to reduce the height to the Antenna Reference Point (ARP), NOT the L1 Phase Center.

Antenna. Height = $H = ((\sqrt{S^2 - R^2}) - C)$

Antenna.Height=H=a+b

| Table of Weather Codes for entry into Weather Data Table on front of form: | | | | | | | | |
|--|-------------------------|--|--|---------------------------------|------------------------------------|--|--|--|
| CODE | CODE PROBLEM | | TEMPERATURE | CLOUD COVER | WIND | | | |
| 0 | NO PROBLEMS encountered | GOOD More than 15 miles | NORMAL 32° F to 80°F | CLEAR Below 20% | CALM Under 5mph (8km/h) | | | |
| 1 | PROBLEMS encountered | FAIR 7 to 15 miles | HOT Over 80°F (27 C) | CLOUDY 20% to 70% | MODERATE 5 to 15 mph | | | |
| 2 | NOT USED | POOR Less than 7 miles | COLD Below 32° F (0 C) | OVERCAST Over 70% | STRONG over15mph (24km/h) | | | |
| Examples: Code 00000 = 0 - No problems, Code 12121 = 1 - Problems, | | 0 - good visibility, 2 - poor visibility, | 0 - normal temperature,1 - hot temperature, | 0 - clear sky, 2 - overcast, | 0 - calm wind 1 - moderate wind | | | |