GPS OCCUPATION LOG SHEET: North S. F. Bay (August 2014)

Site information

Four-character ID: 04LF
Site name: 04LF
Observer(s): C. JOHNSON / K. MATERNA
Agency/ies: UC BERKELEY
Log written by: K. MATERNA

Equipment information

Receiver model: Trimble 5700
Receiver P/N: 40406-31
Receiver S/N: 02202 81576
Antenna model: Trimble Zephyr Geodetic
Antenna P/N: 41249-00 DC 4219
Antenna S/N: 12337833

TWO BATTERIES INSTALLED

Setup information

Start

Calendar date (YYYY/MM/DD): 2014 / 08 / 30
Local time (24-hour HH:MM): 11 : 22 TZ: PDT
Antenna heights: ☐ Vertical ☑ Slant (select one only)
Measured to: BOTTOM OF GROUND PLANE

HI mark	Measurement (☐m ☑cm)	Measurement (☑ft ☐in)
3	110.25	
1	110.20	
6	110.30	

	✓
Tripod or spike mount legs secured and tightened?	☑
Antenna horizontal?	☑
Antenna centered when horizontal?	☐
Antenna to true north? (Mag. decl. 14 ° ☑E ☐W)	☐
All antenna fixtures tightened?	☑
Receiver on with adequate power?	☐
Satellites fully acquired?	☐
Receiver logging?	☐
Equipment secured and locked?	☐

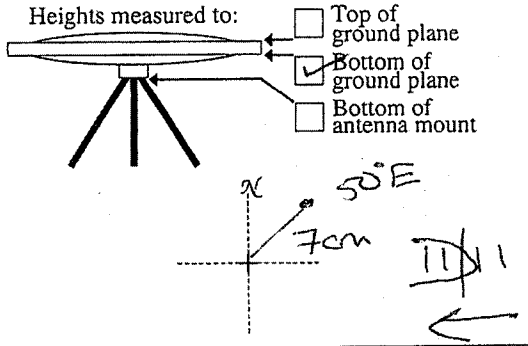
Finish

09
Calendar date (YYYY/MM/DD): 2014 / ~~08~~ / 03
Local time (24-hour HH:MM): 14 : 37 TZ: PDT
Antenna heights: ☐ Vertical ☒ Slant (select one only)
Measured to: Bottom of GP

HI mark	Measurement (☐m ☒cm)	Measurement (☐ft ☐in)
3	105.45	
1	~~120~~ 107.00	
6	106.85	

✓/✗	
☐	
☒	
☒	
☑	
☑	
☒	
☐	
☐	
☑	

Antenna diagrams



FOR OFFICE USE

04Lf2422.140 330° (W)

Data file name(s): 15762380.t00
RINEX file name(s): 04Lf2431.140 04Lf2432.140 04Lf2441.140
Receiver IGS code: TRIMBLE 5700
Obs.: ☑L1 ☑L2 ☐L2² ☐L5 ☑C1 ☐C2 ☐P1 ☑P2
Antenna IGS code: TRM41249.00 NONE
Logging interval: 1 s Elevation mask: 0 °
Data start time (UTC): 18 : 21 : 26
Data finish time (UTC): 04 : 39 : 26
Ordinal date (YYYY DDD): 2014 242
Ordinal date (YYYY DDD): 2014 244
GPS week (WWWW D): 1807 6
GPS week (WWWW D): 1808 1
Average measurement: 1.1025 m ☑Slant ☐Vertical
Average measurement: 1.0643 m ☑Slant ☐Vertical
Mean of average measurements: (1) 1.1025 (2) 1.0643 m ☑Slant ☐Vert.
RINEX conventional height: (1) 1.0450 (2) 1.0063 m

* SEE REVERSE SIDE FOR ADDITIONAL INFORMATION!

KINEMATIC PROCESSING BY M. FLOYD (MIT, 2014-09-25) SHOWS THAT THE ANTENNA APPEARS TO HAVE BEEN DISTURBED TWICE:

1. AFTER 2014-08-31T03:34:00Z, THE TRIPOD APPEARS TO HAVE BEEN COMPLETELY COLLAPSED, AS IF LAID ON THE GROUND A FEW METRES AWAY FROM THE MARK;

2. AFTER 2014-08-31T 14:21:30Z, THE TRIPOD THEN APPEARS TO HAVE BEEN REPLACED APPROXIMATELY, MOST LIKELY AT THE POSITION IT WAS SUBSEQUENTLY FOUND AND MEASURED AT ($\Delta e = 0.0536m$; $\Delta n = 0.0450m$)