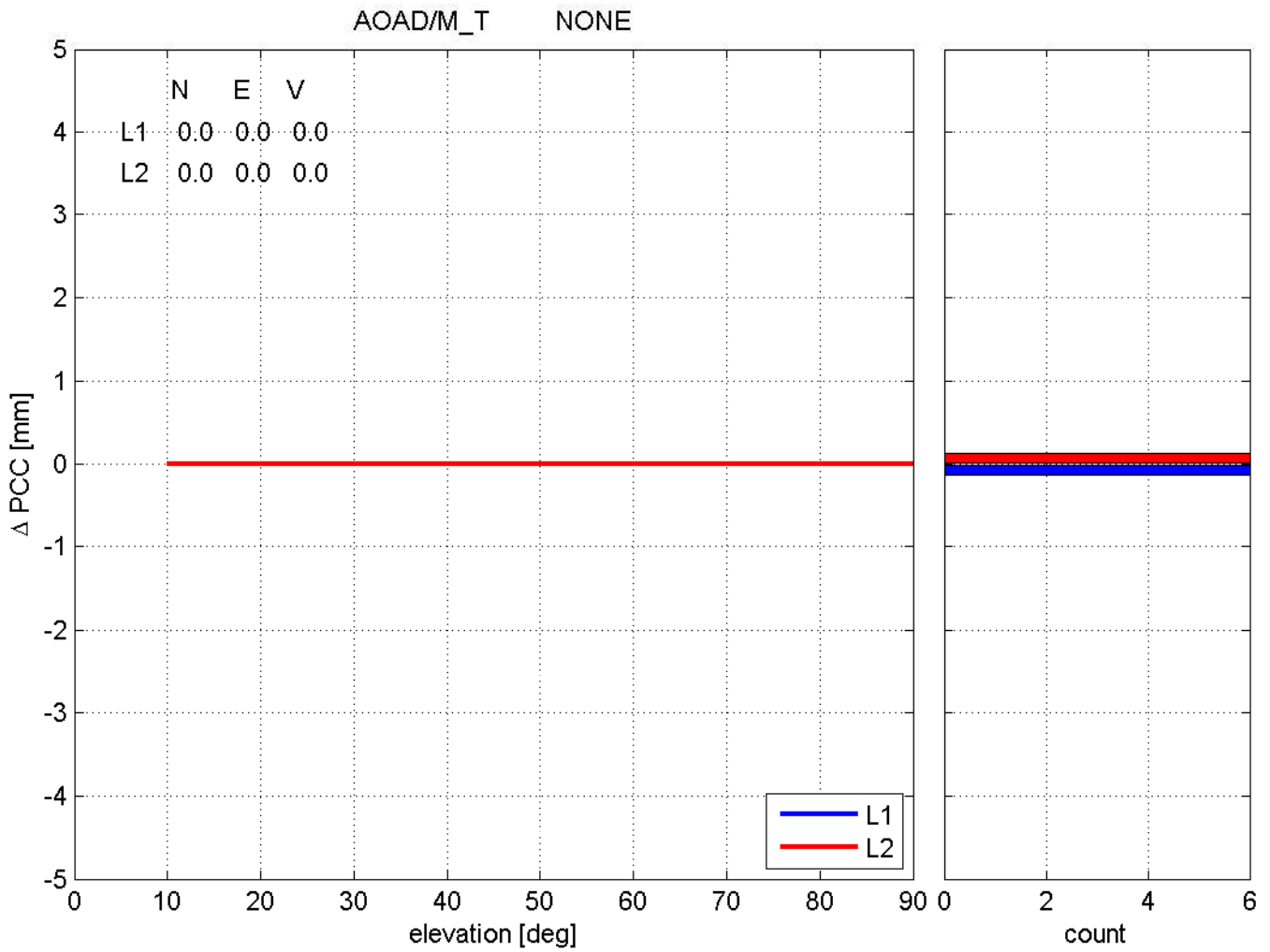
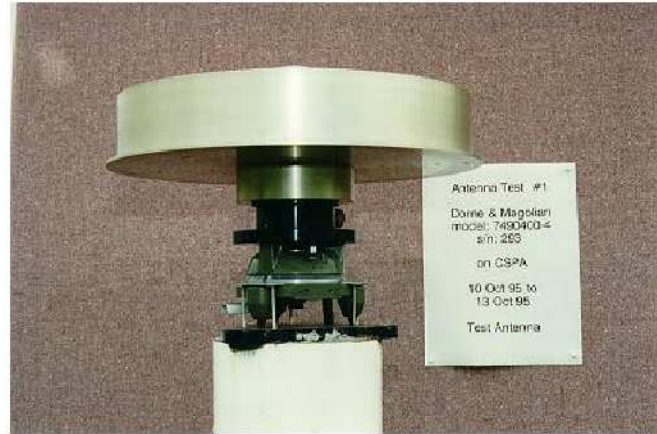


calib date:
27-Oct-1997

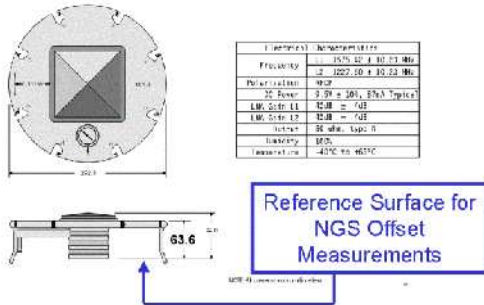
chokering (CR)



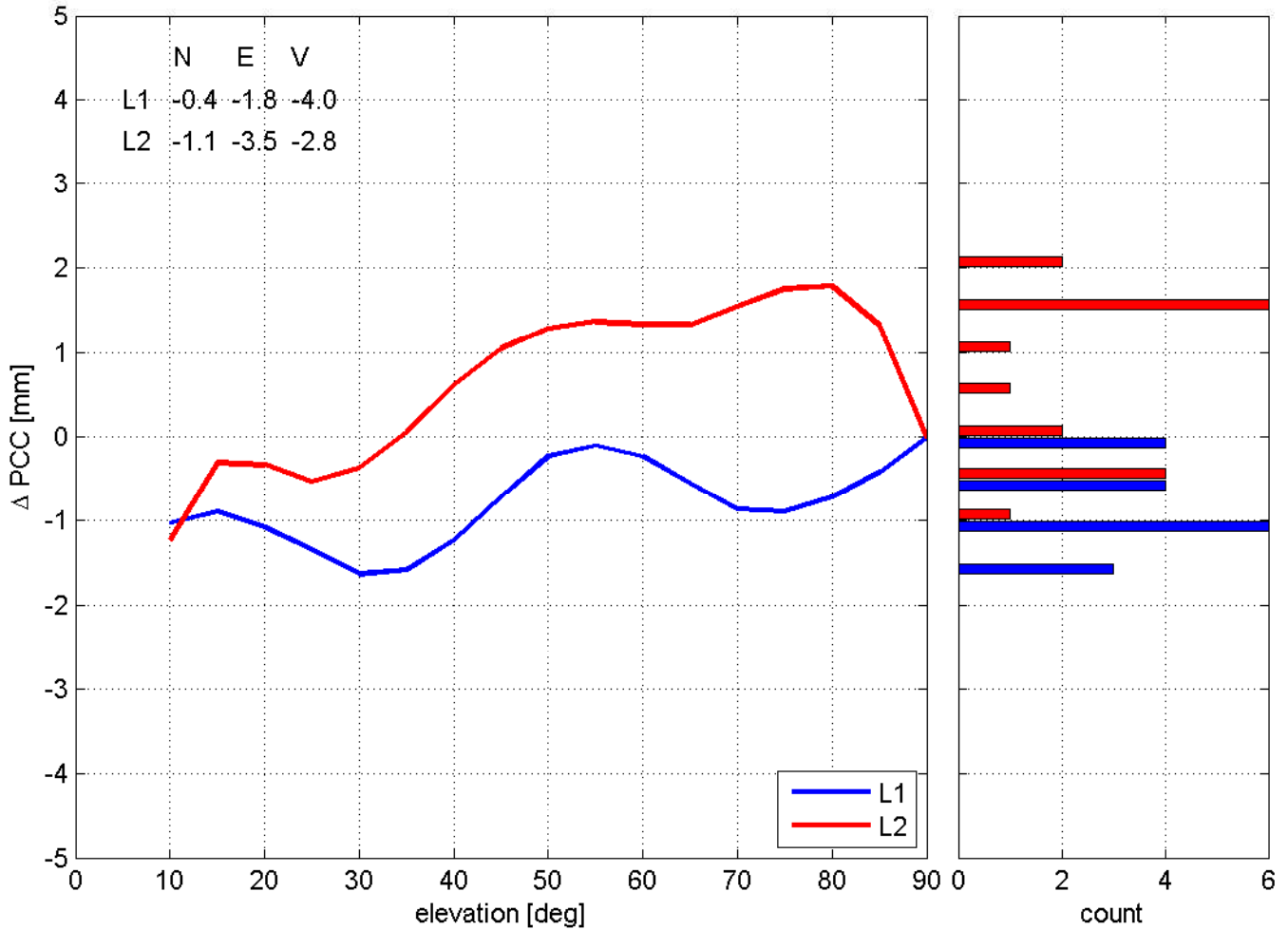
calib date:
02-Jun-1998

patch with
groundplane
(±GP)

ASH 700228 A
Ashtech L1/L2 Antenna



ASH700228A NONE

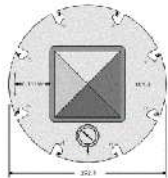


calib date:
27-Oct-1997

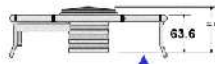
patch with
groundplane
(+GP)

ASH 700228.D

Ashtech L1/L2 Antenna



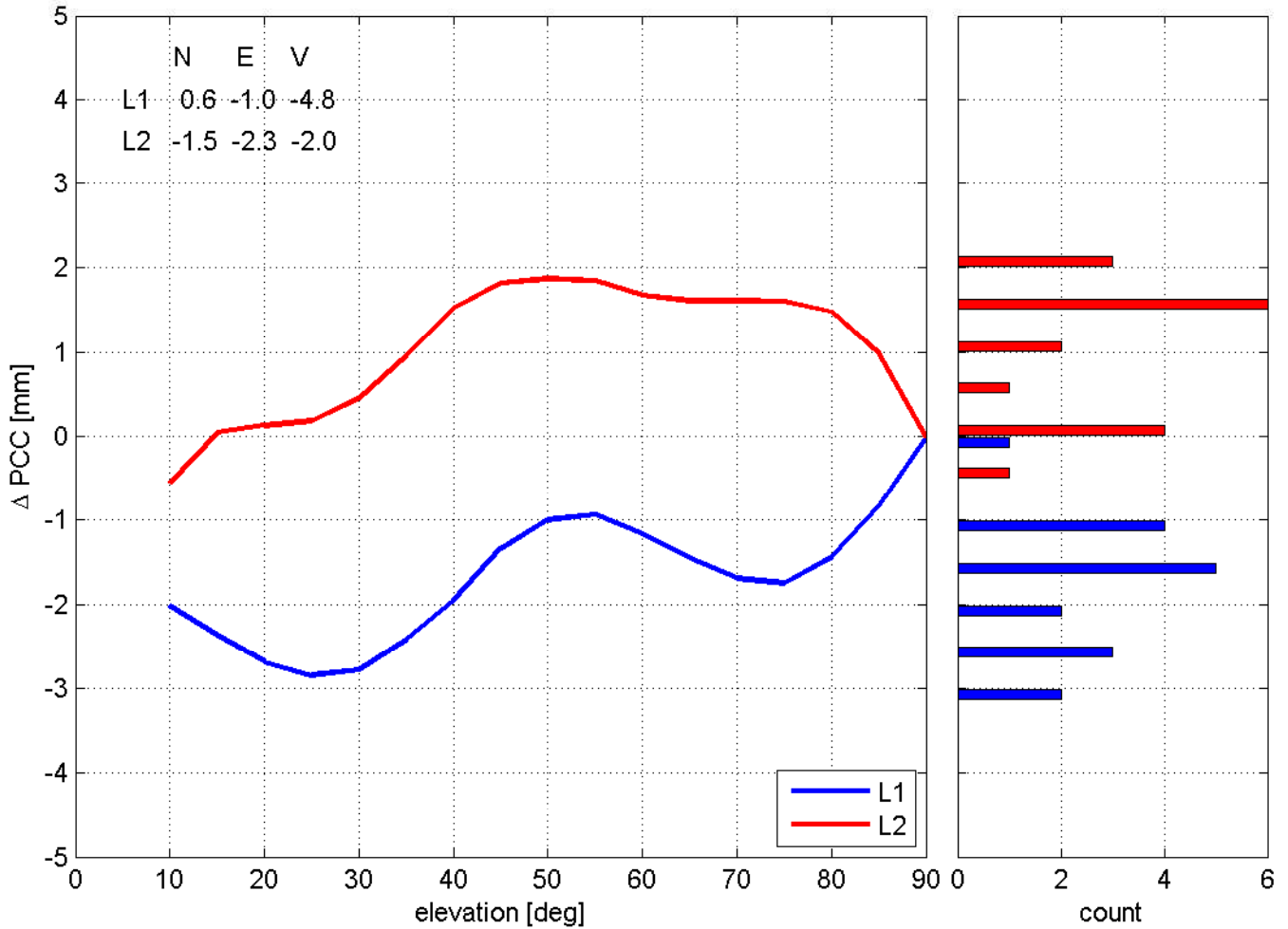
Electrical Characteristics	
Frequency	1575.42 ± 0.01 MHz
Frequency	1227.60 ± 0.02 MHz
Polarization	RP
SWR	1.50 ± 0.01, 50Ω Typical
LW Side L1	0.00 ± 0.01
LW Side L2	0.00 ± 0.01
Mount	AS-Mnt, Type 5
Industry	AS
Temperature	-40°C to +65°C



Reference Surface for
NGS Offset
Measurements



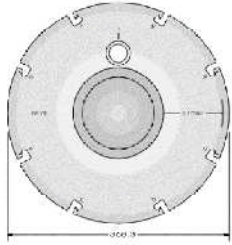
ASH700228D NONE



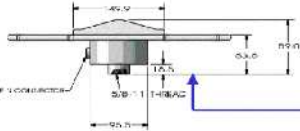
calib date:
27-Oct-1997

patch with
groundplane
(+GP)

Ashtech L1/L2 "Whopper" Antenna
ASH 700718.B

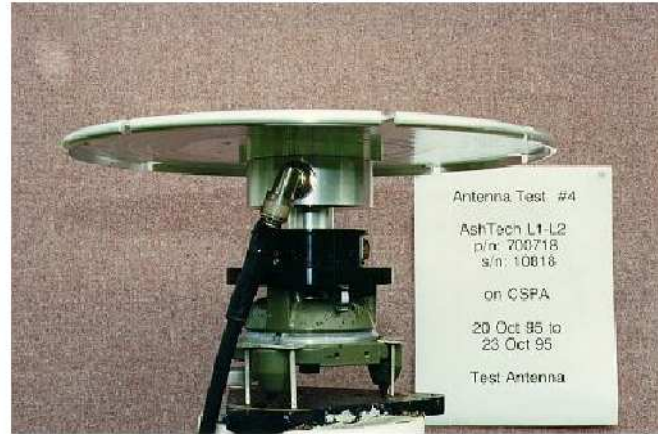


Electrical Characteristics	
Frequency	L1 1575.42 ± 10.23 MHz
	L2 1227.60 ± 10.23 MHz
Polarization	RHC*
Antenna Gain	5.2 dBiC @ ZENITH
DC Power	5 - 15V, 45 mA, Typical
LNA Gain L1	39dB ± 3dB
LNA Gain L2	39dB ± 3dB
Output	50 ohm, type N
Humidity	100%
Temperature	-40°C to +65°C

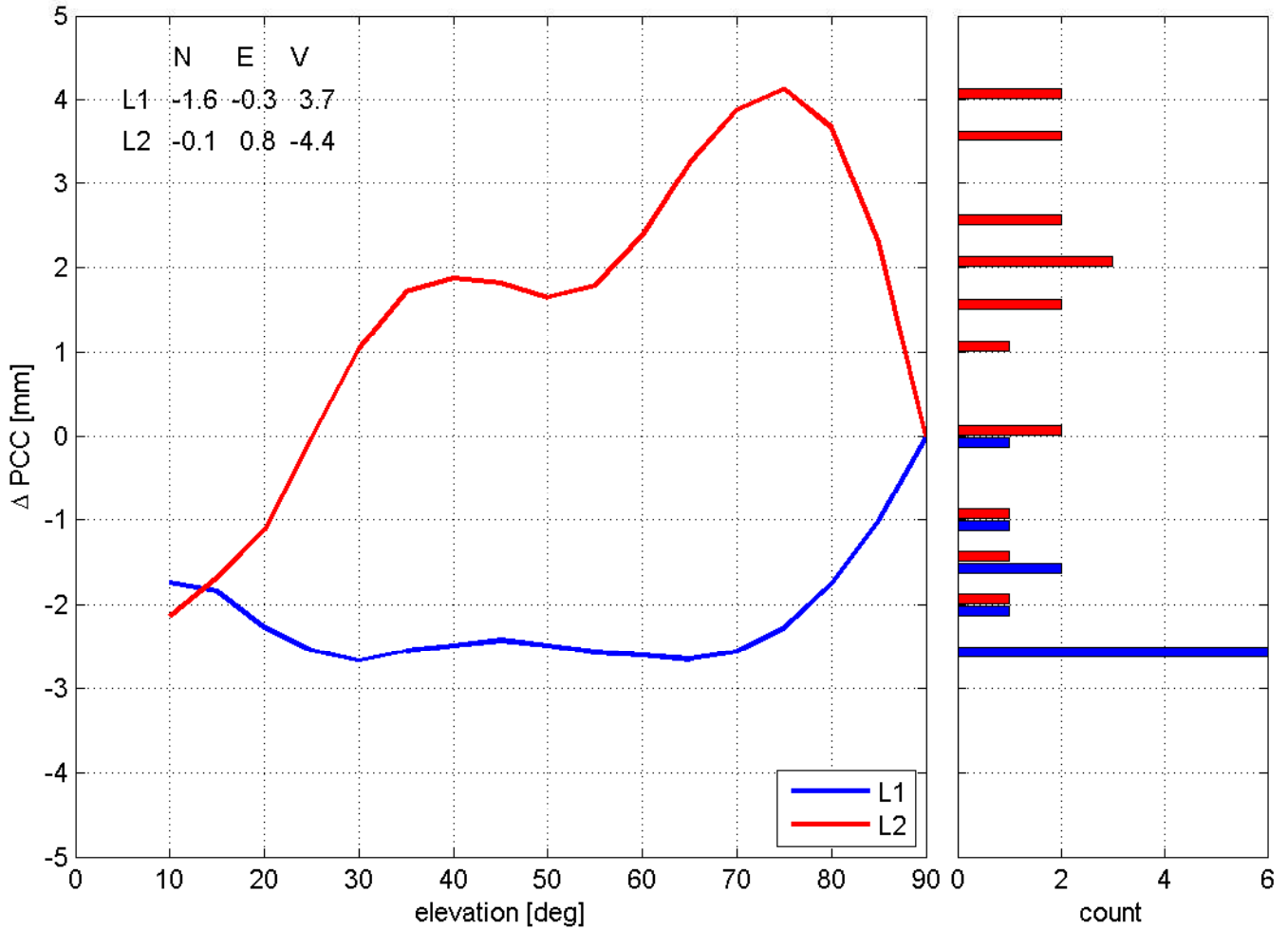


Reference Surface for
NGS Offset
Measurements

NOTE: All dimensions in millimeters.



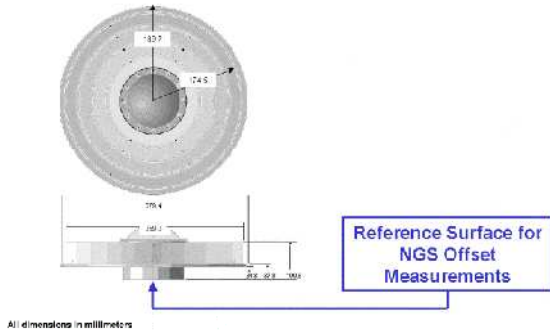
ASH700718B NONE



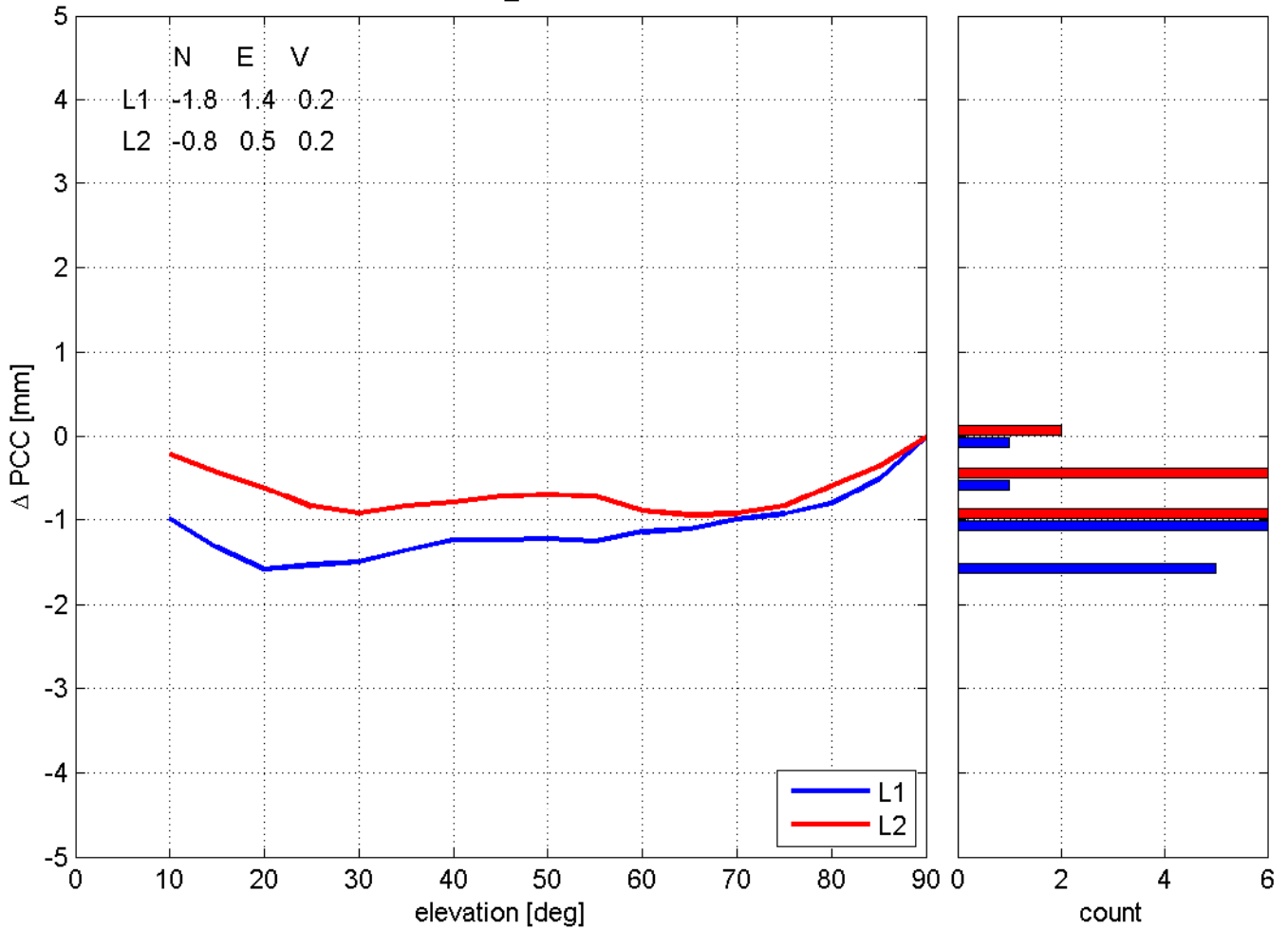
calib date:
02-Jun-1998

chokering (CR)

ASH 700936B_M
Choke Ring Antenna

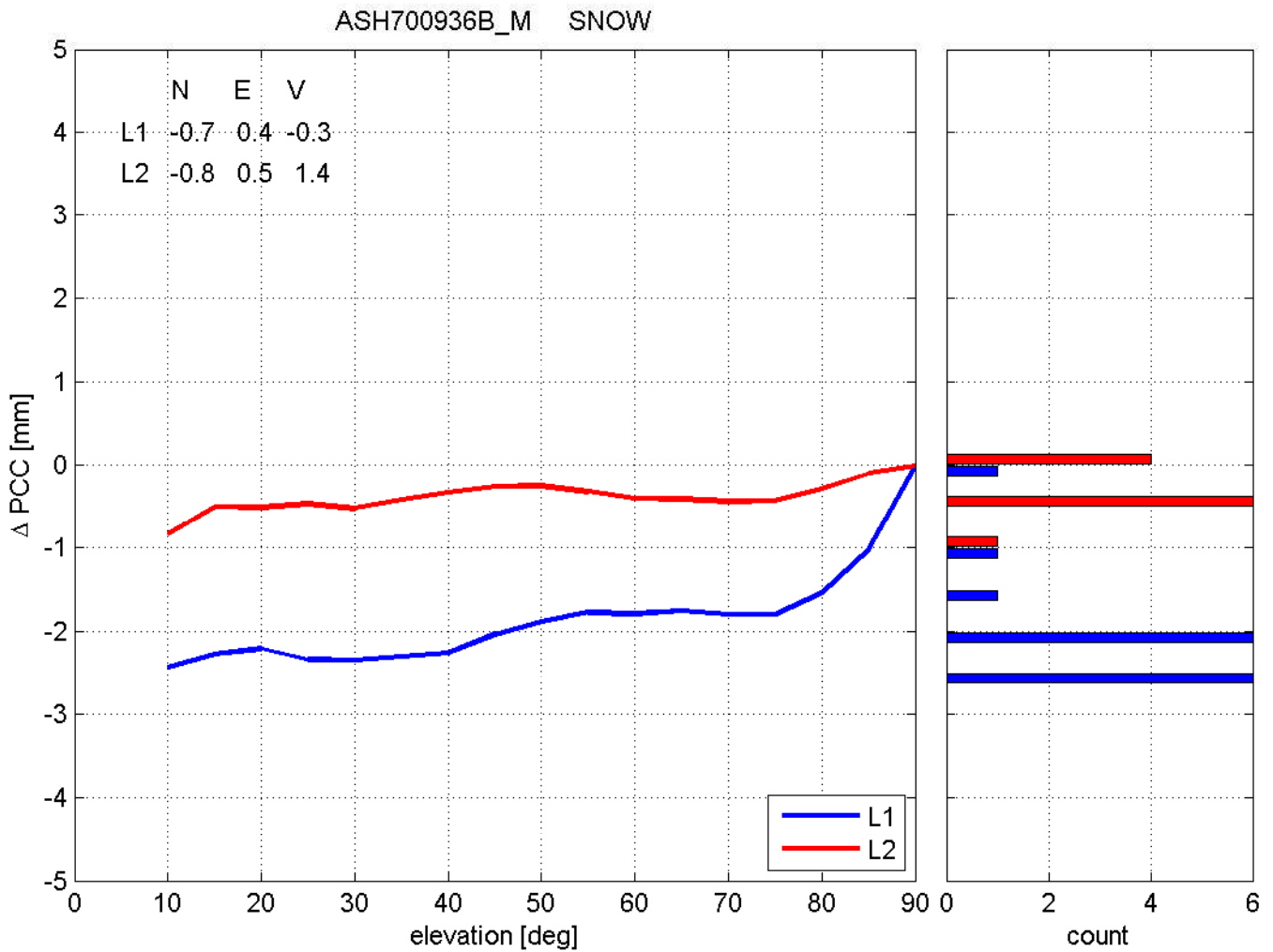
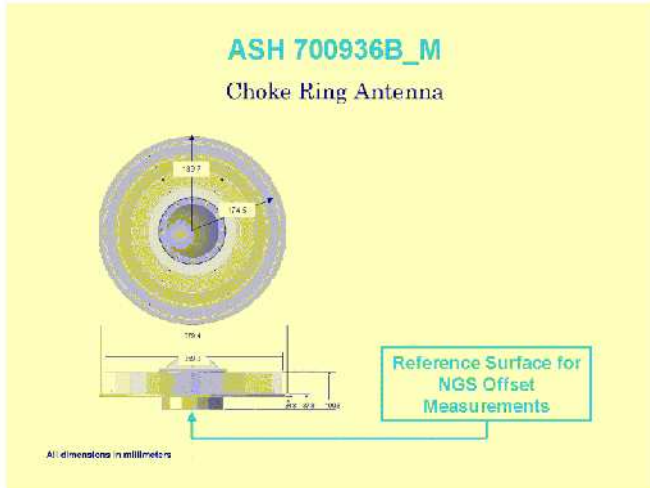


ASH700936B_M NONE



calib date:
27-Oct-1997

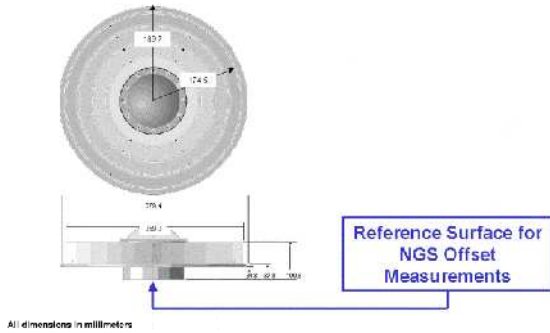
chokering (CR)



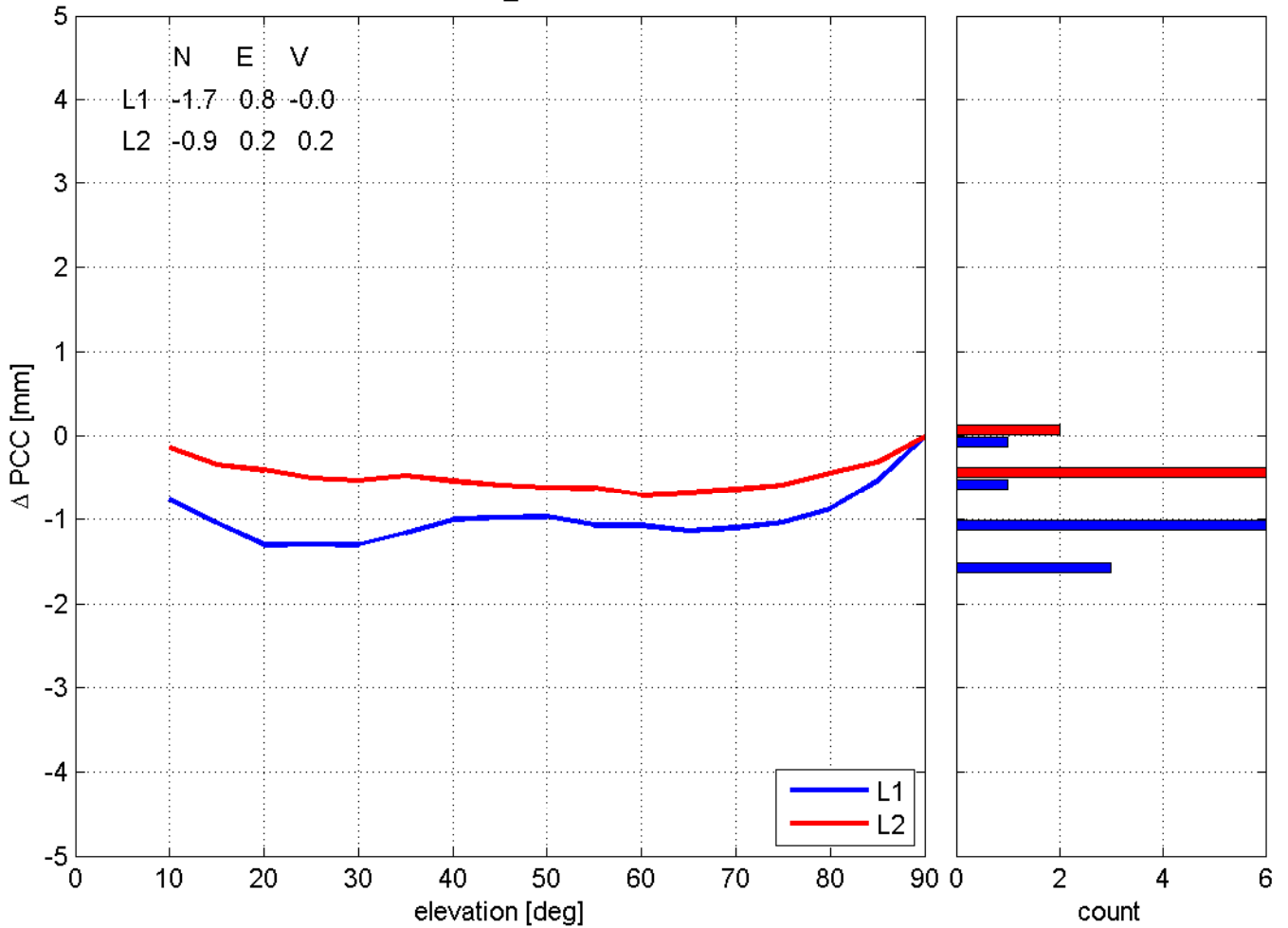
calib date:
02-Jun-1998

chokering (CR)

ASH 700936C_M
Choke Ring Antenna

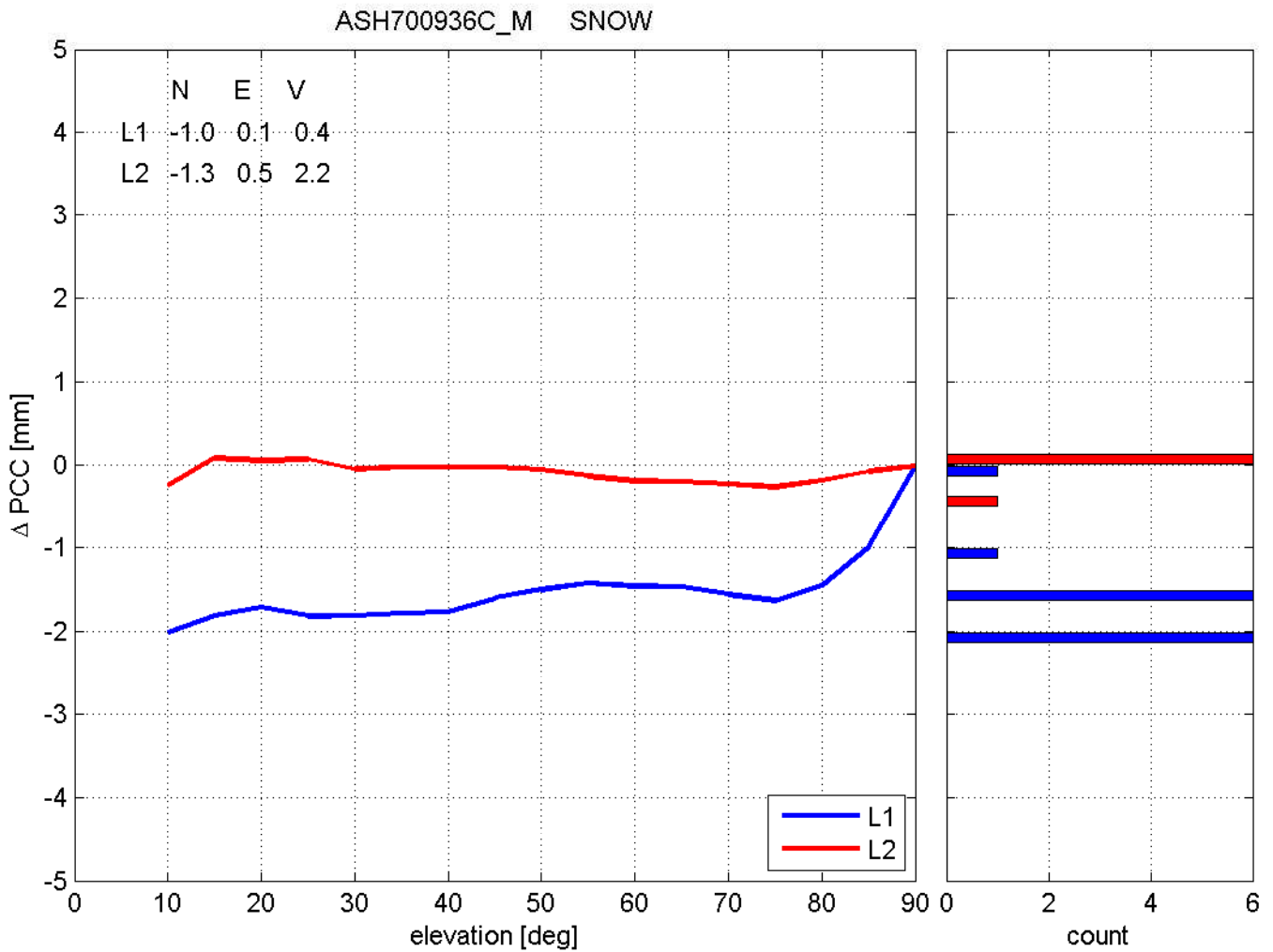
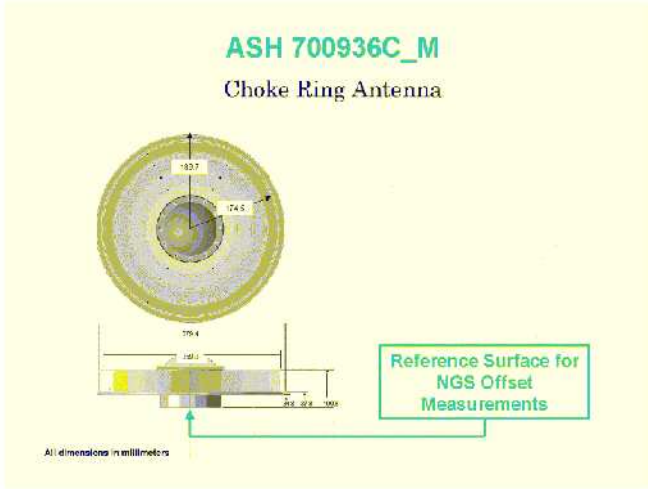


ASH700936C_M NONE



calib date:
27-Oct-1997

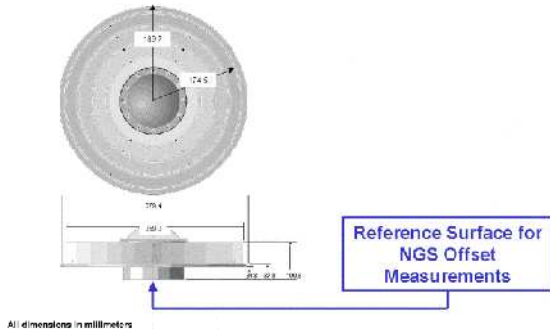
chokering (CR)



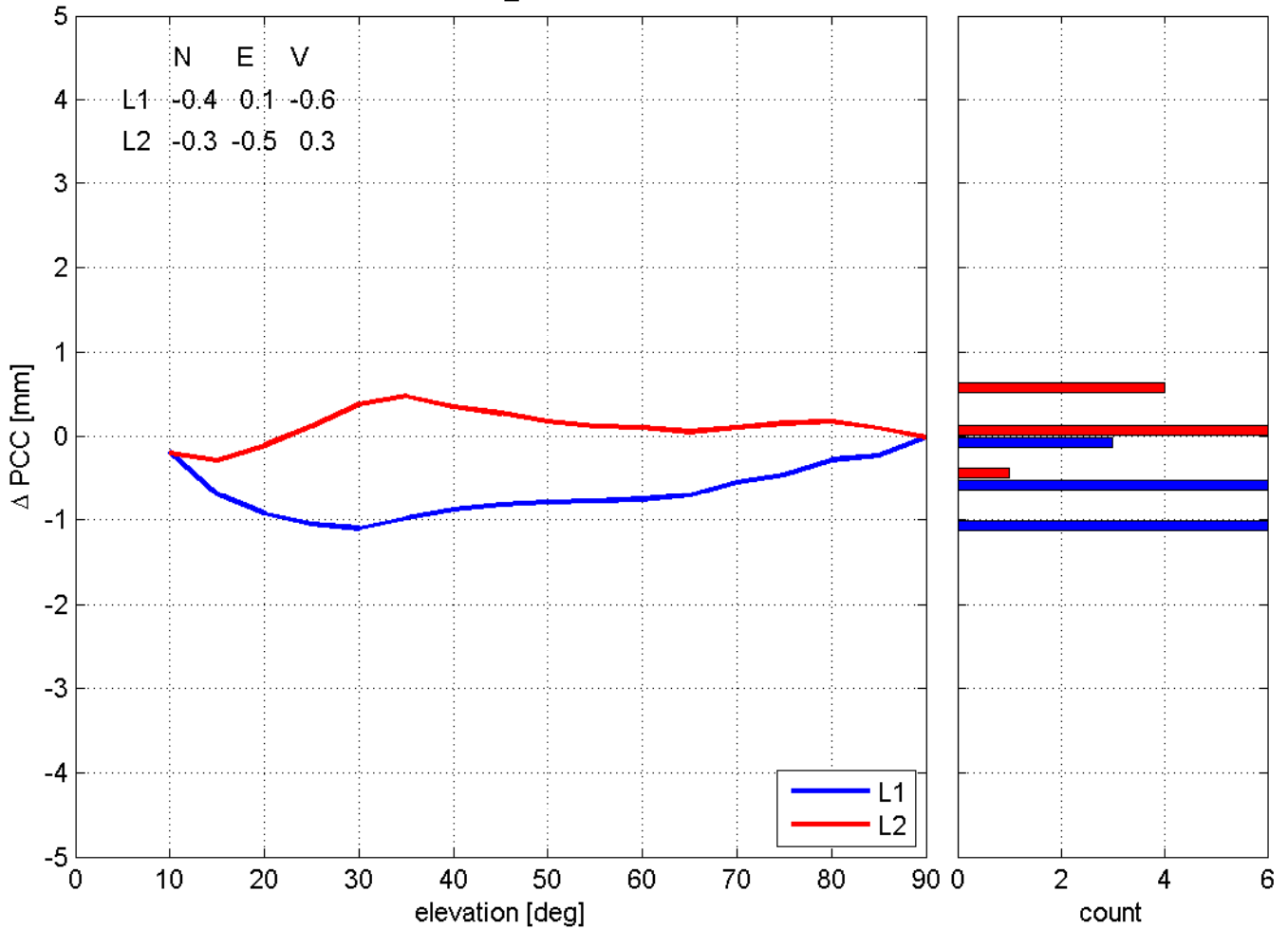
calib date:
27-Oct-2004

chokering (CR)

ASH 700936D_M
Choke Ring Antenna

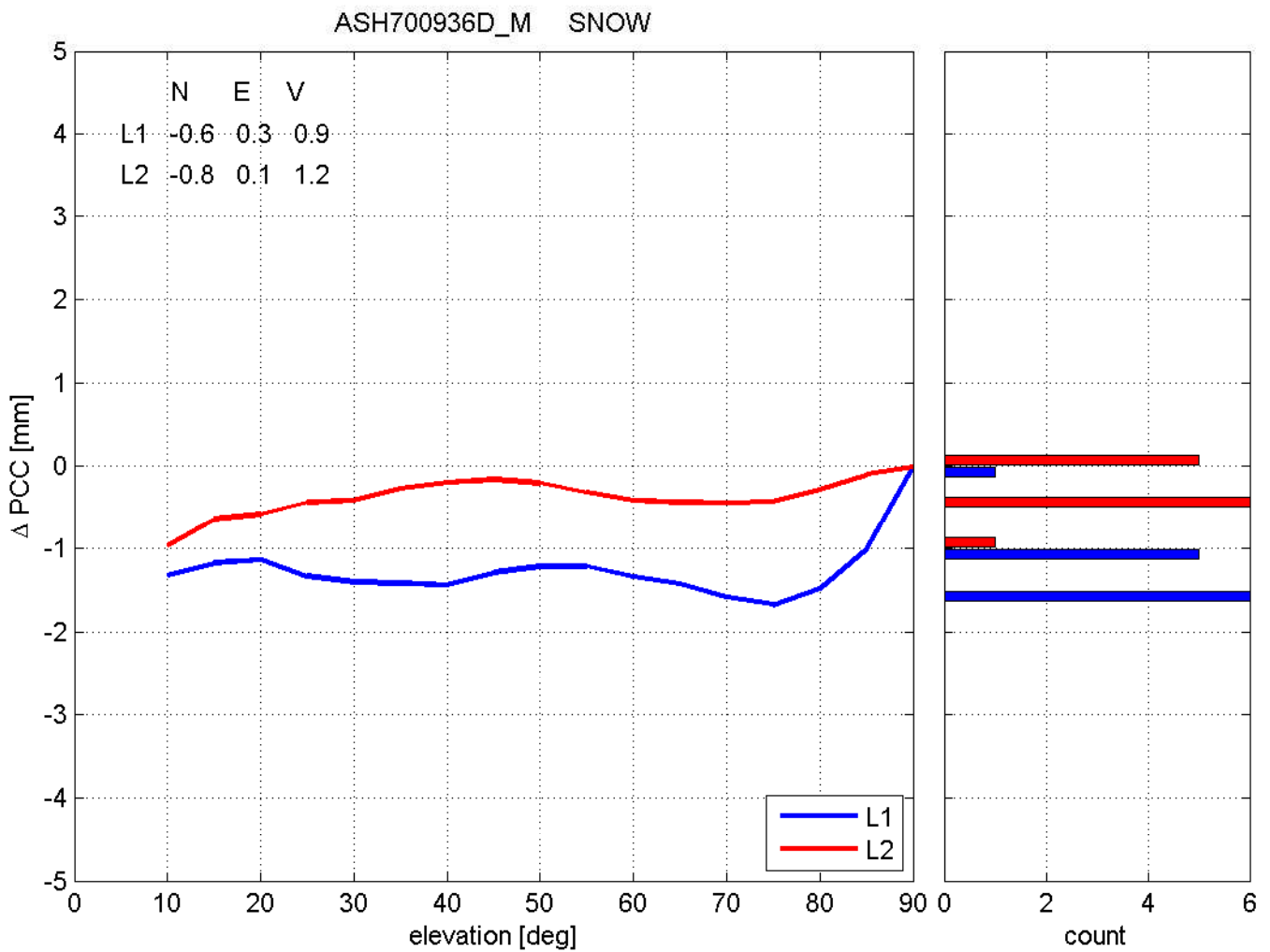
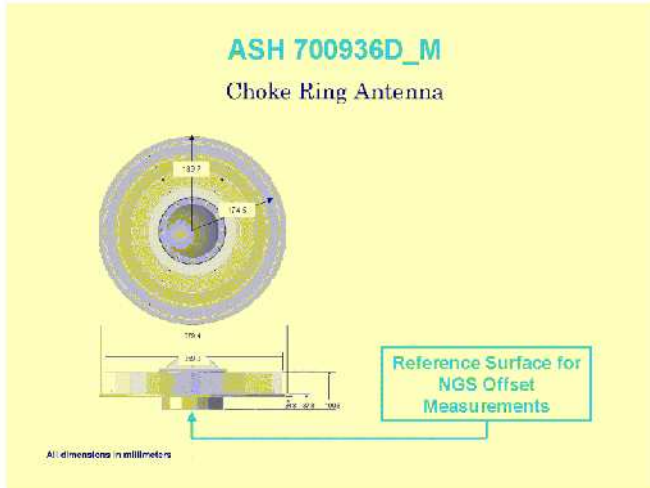


ASH700936D_M NONE



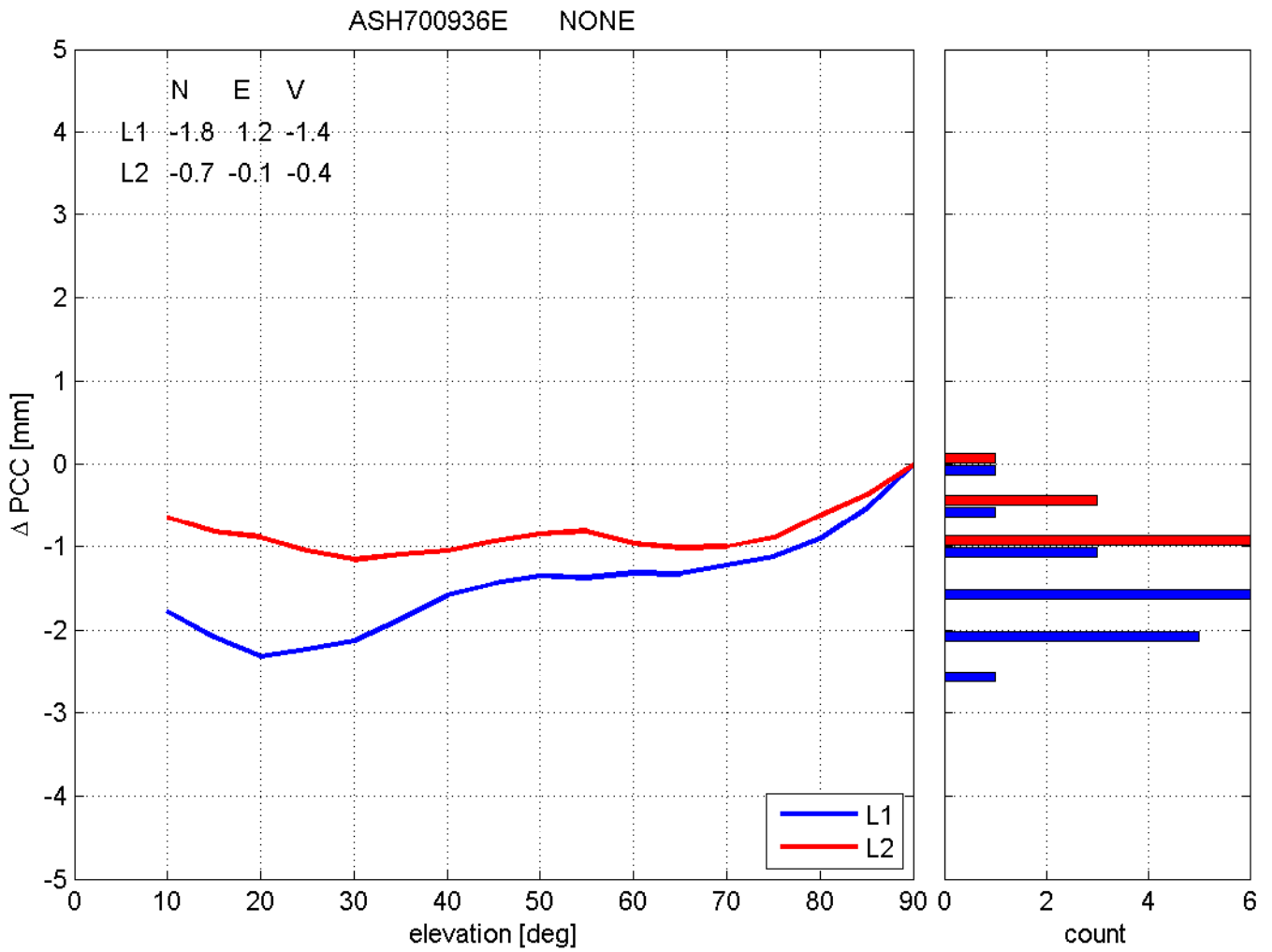
calib date:
27-Oct-1997

chokering (CR)



calib date:
26-May-2000

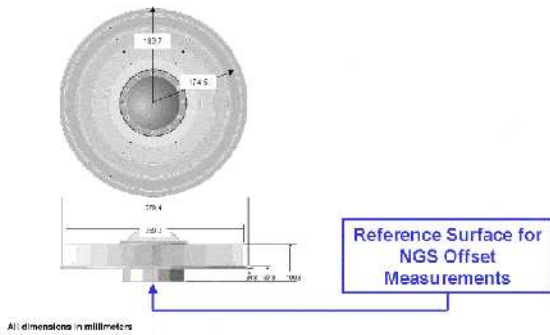
chokering (CR)



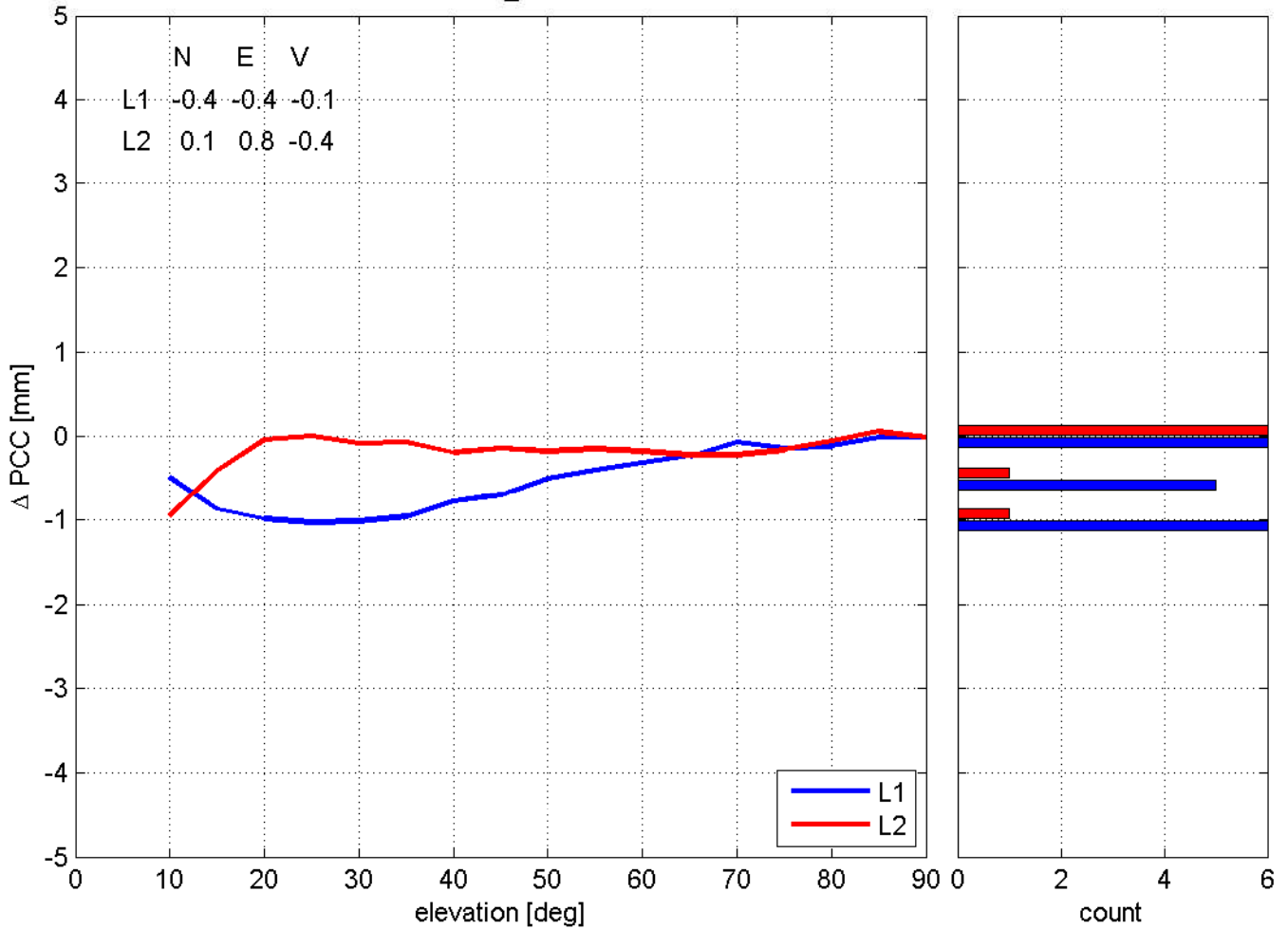
calib date:
20-Apr-2000

chokering (CR)

ASH 701945C_M
Choke Ring Antenna

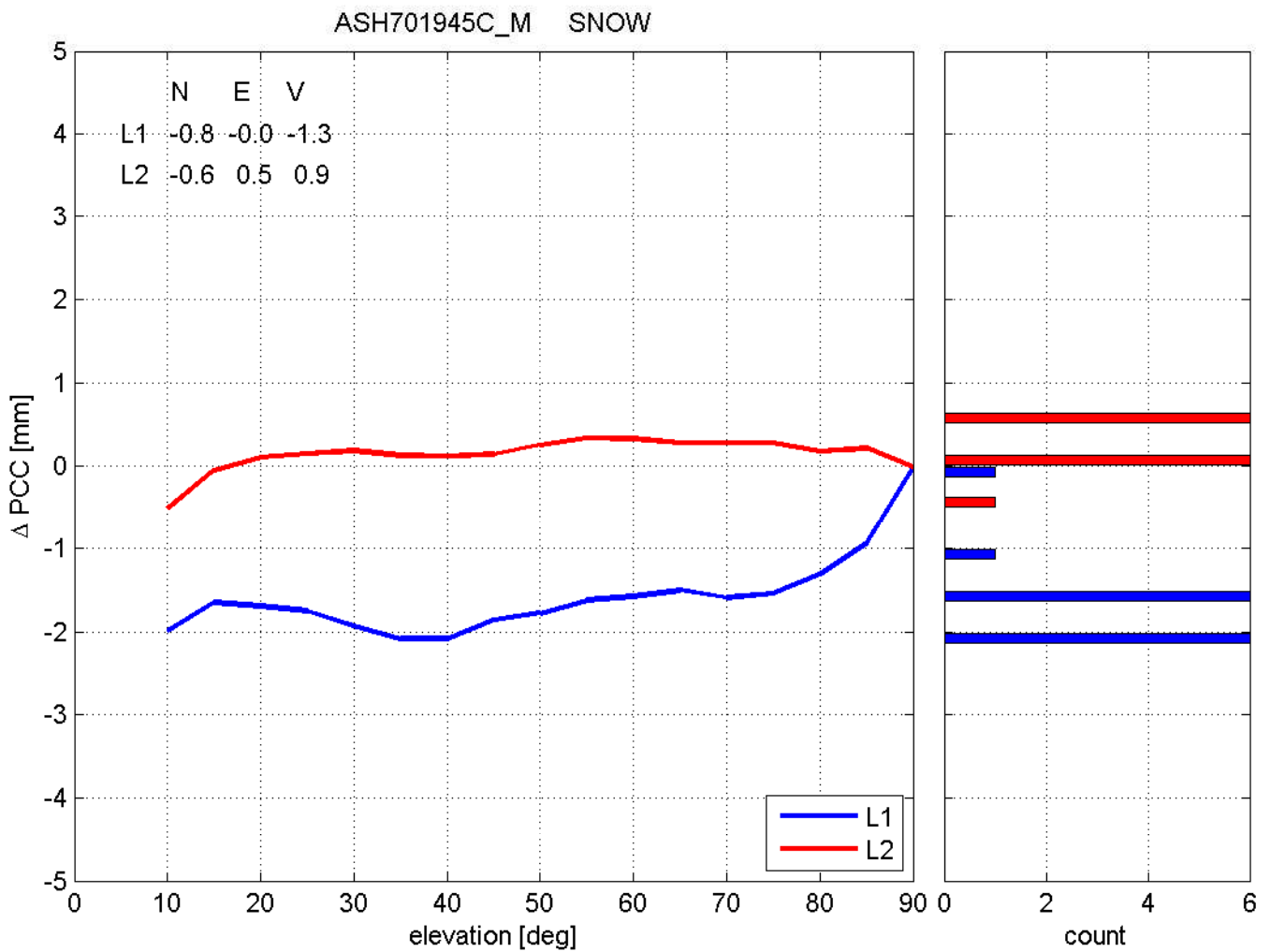
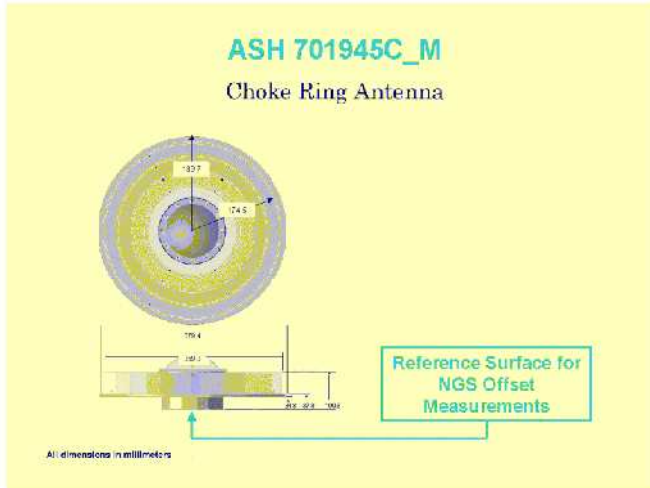


ASH701945C_M NONE



calib date:
17-Mar-2003

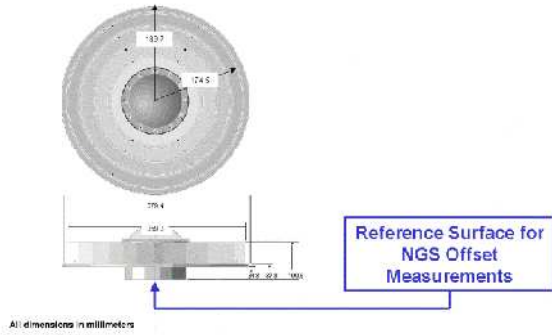
chokering (CR)



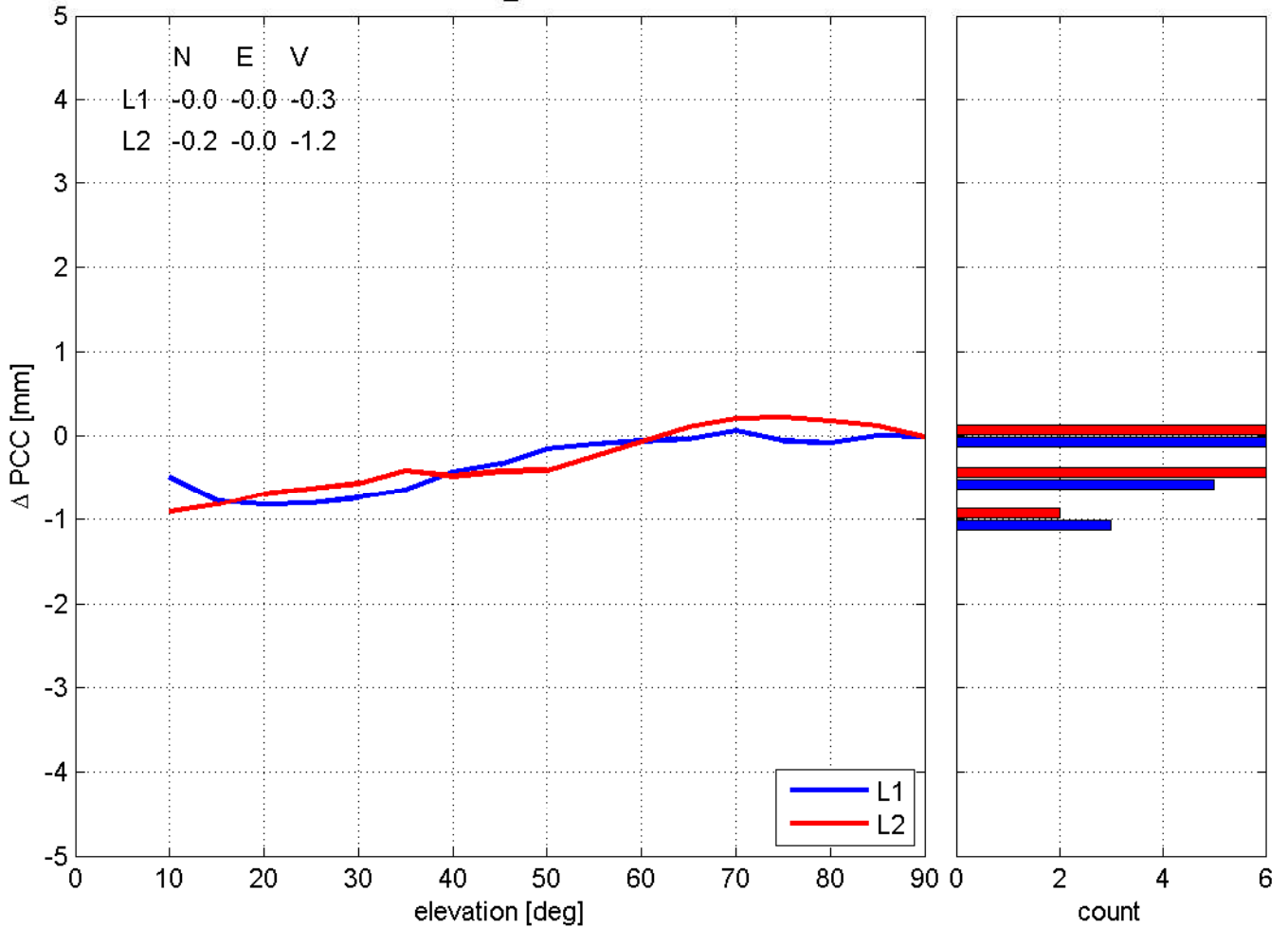
calib date:
20-Apr-2000

chokering (CR)

ASH 701945E_M
Choke Ring Antenna

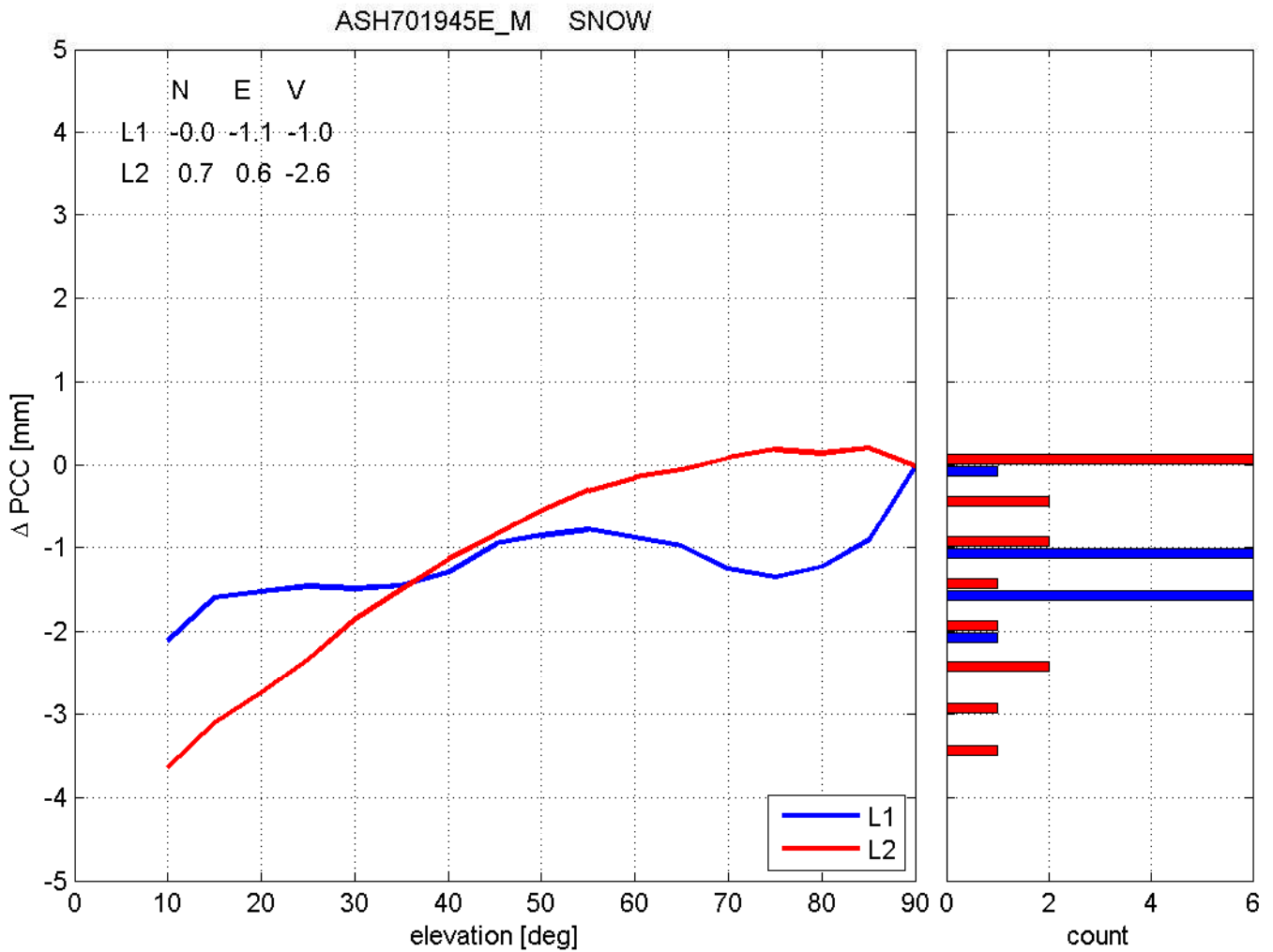
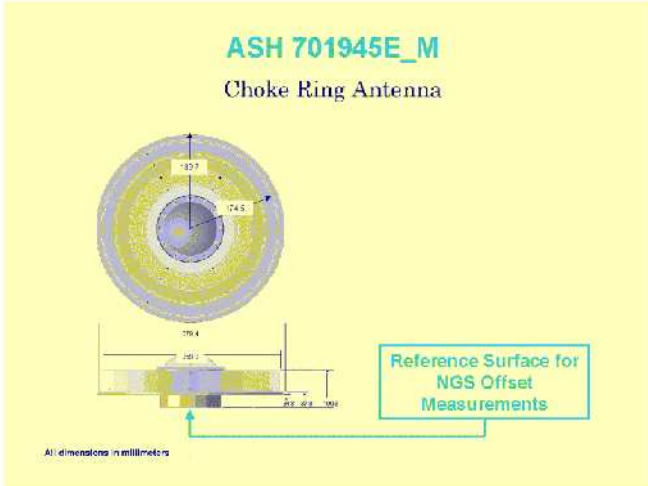


ASH701945E_M NONE



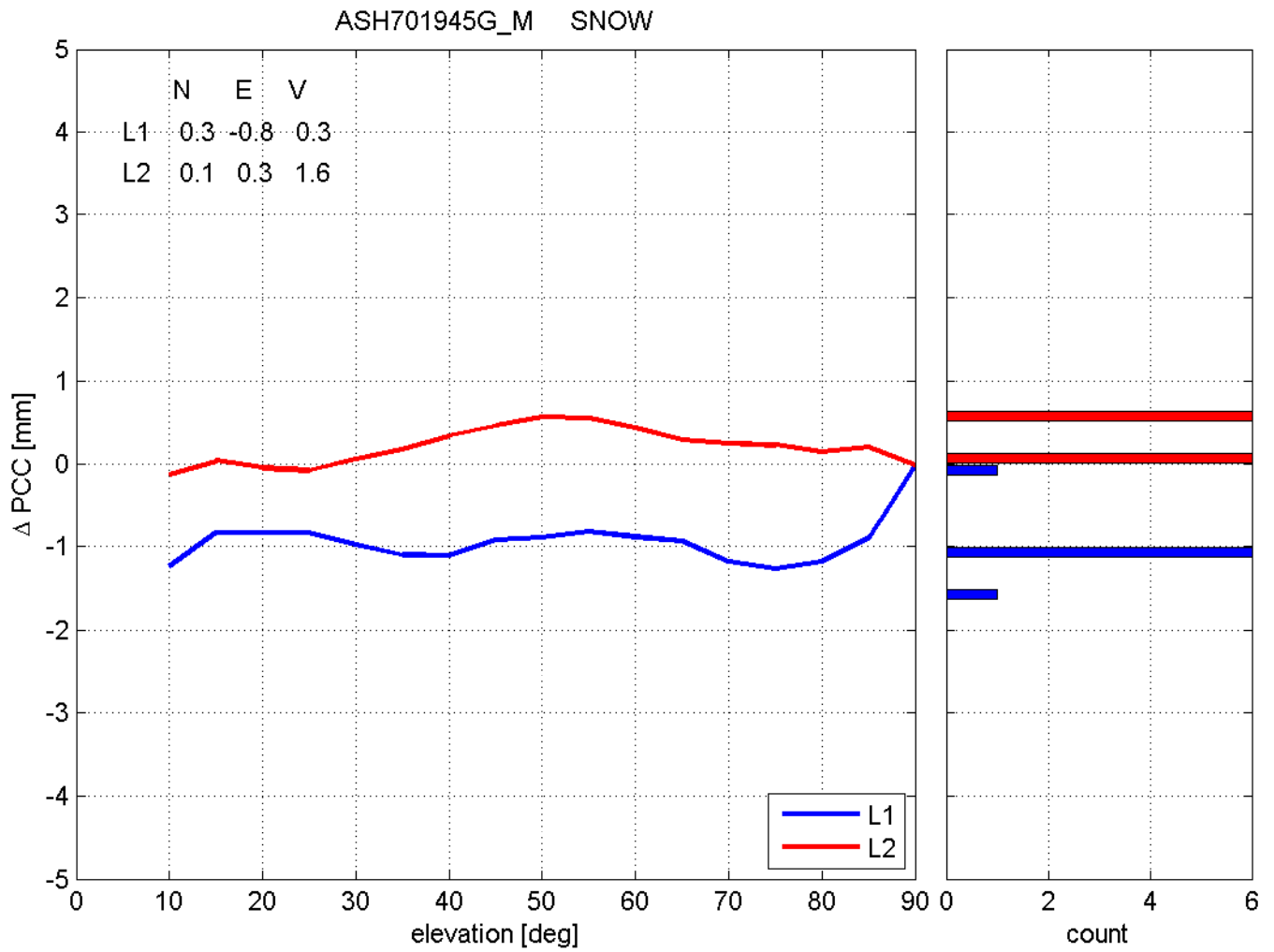
calib date:
17-Mar-2003

chokering (CR)



calib date:
17-Mar-2003

chokering (CR)



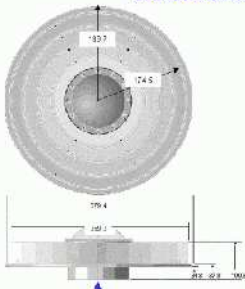
calib date:
09-Dec-2011

chokering (CR)

ITT3750323+SCIS

Choke Ring Antenna

RF connector = North
SCIS dome not shown

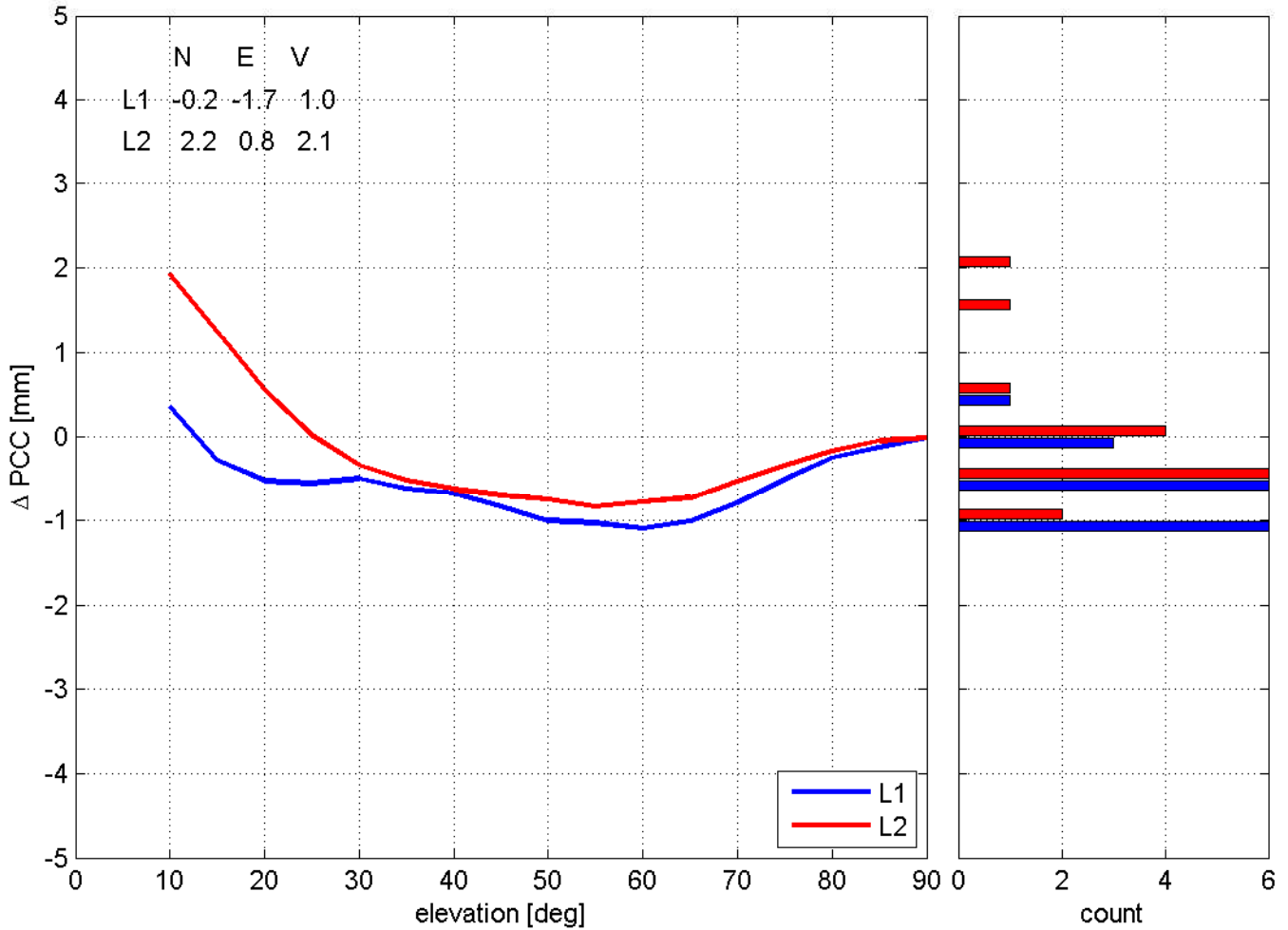


Reference Surface for
NGS Offset
Measurements

All dimensions in millimeters

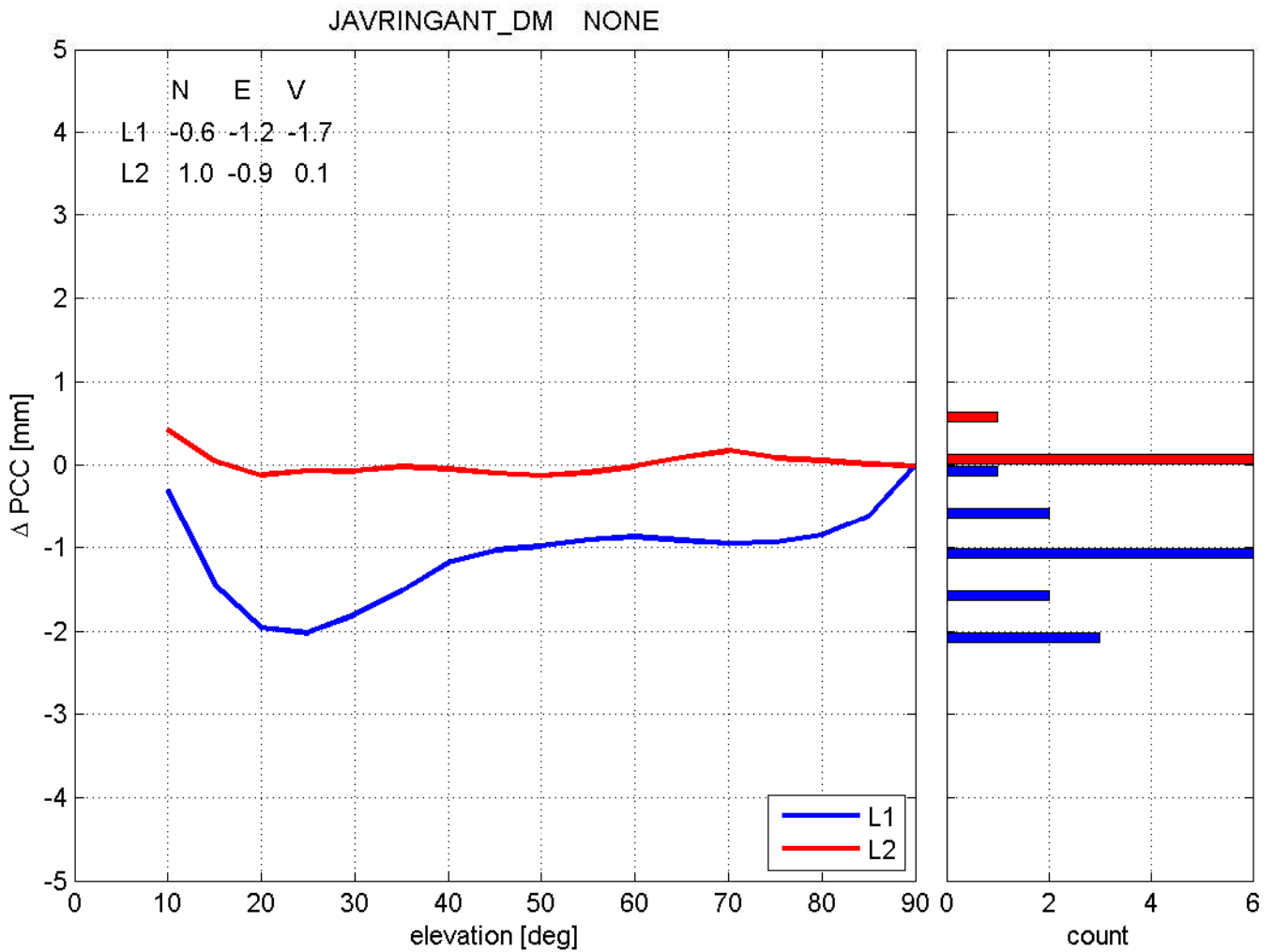
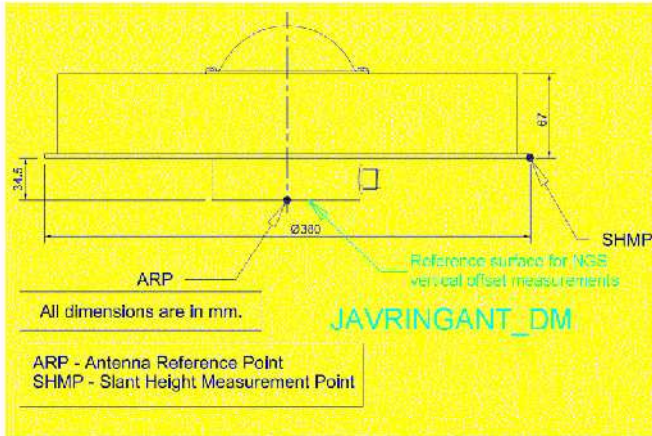


ITT3750323 SCIS



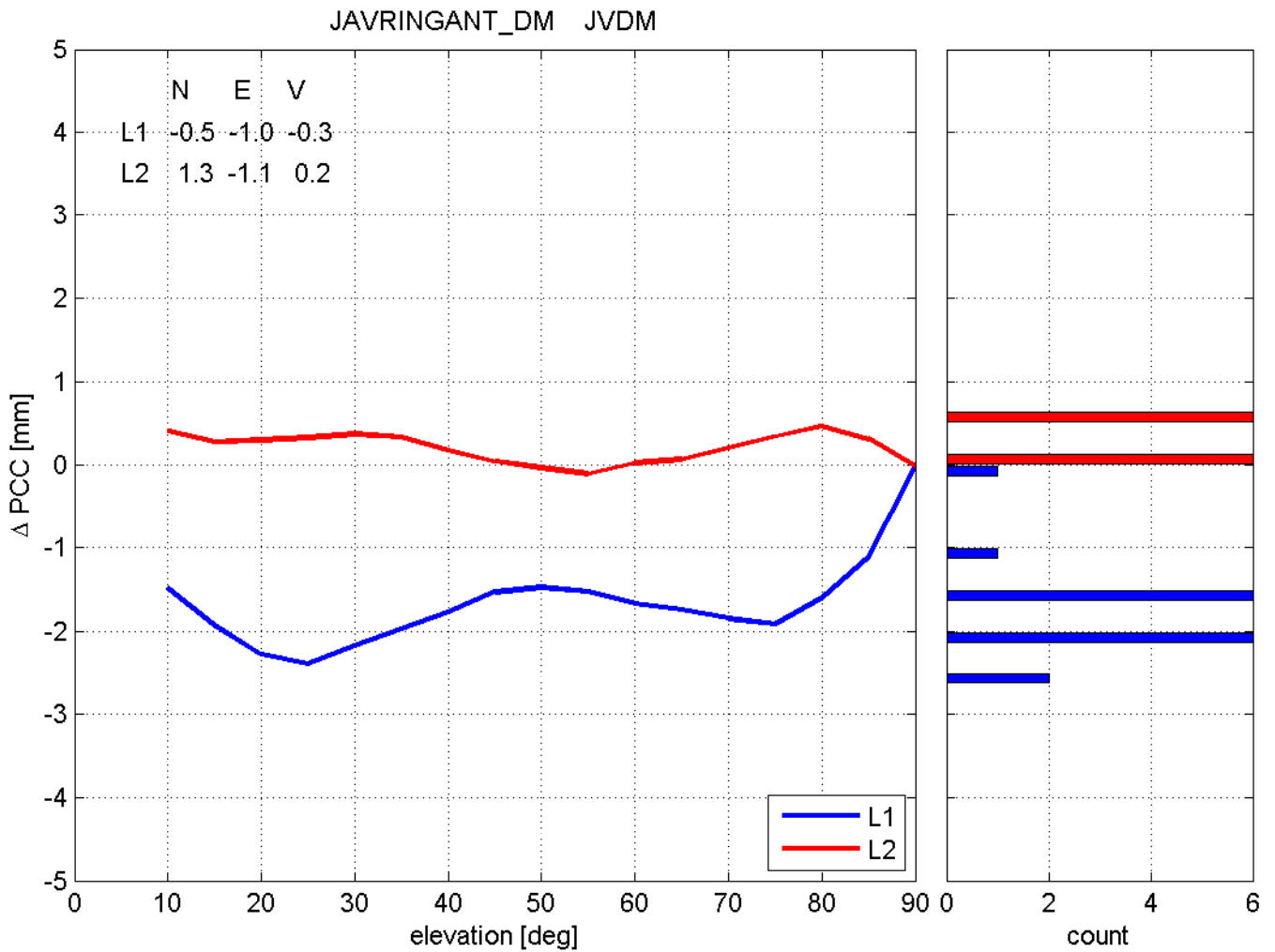
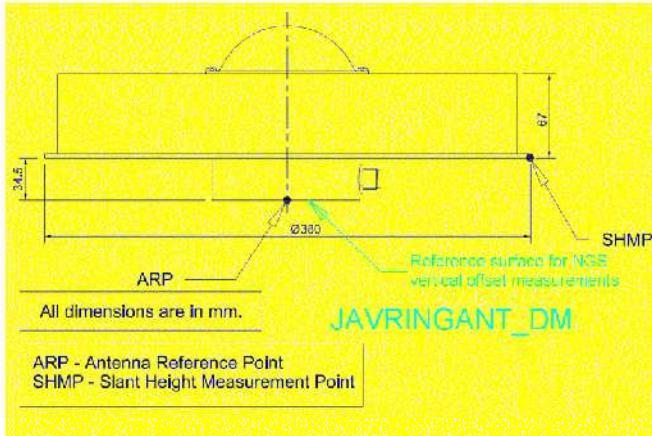
calib date:
16-Sep-2009

chokering (CR)



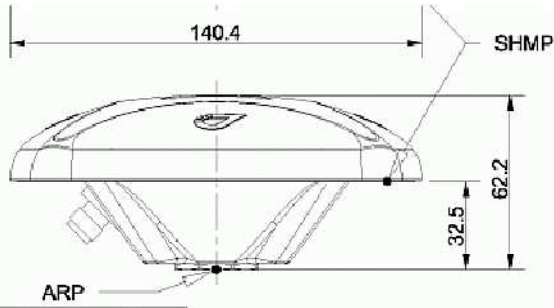
calib date:
13-Nov-2009

chokering (CR)



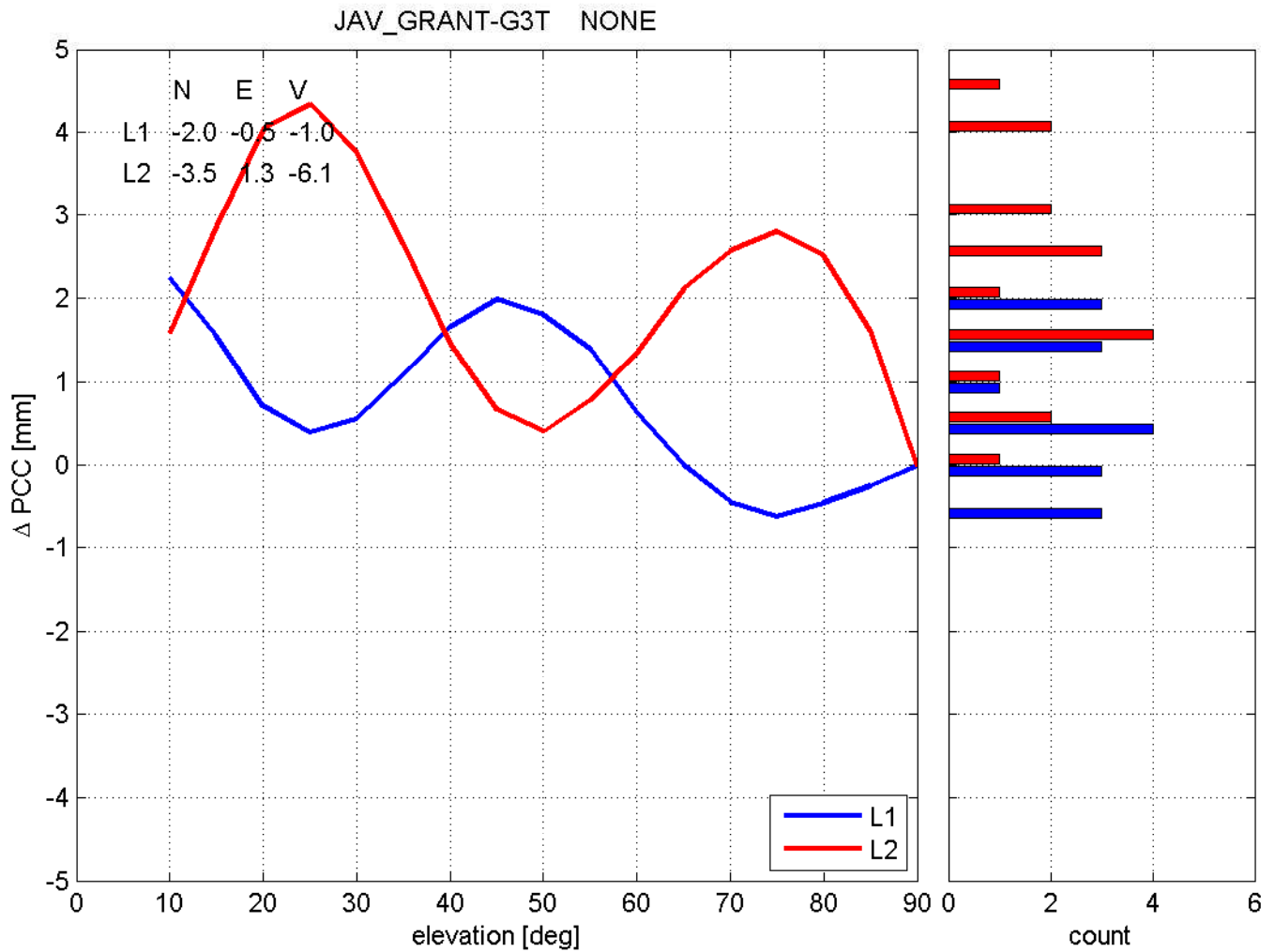
calib date:
28-Jun-2008

rover antenna (no
rx)



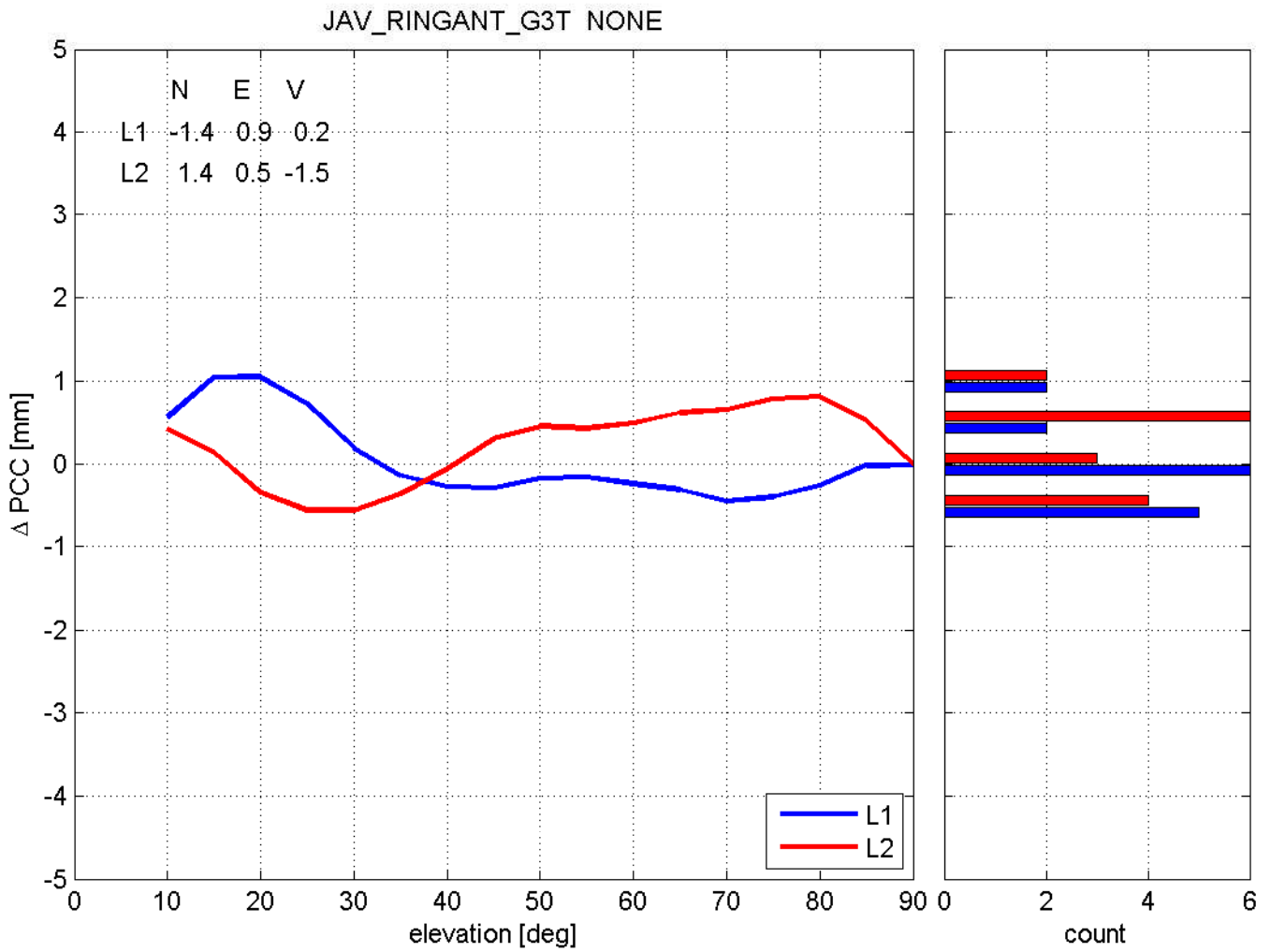
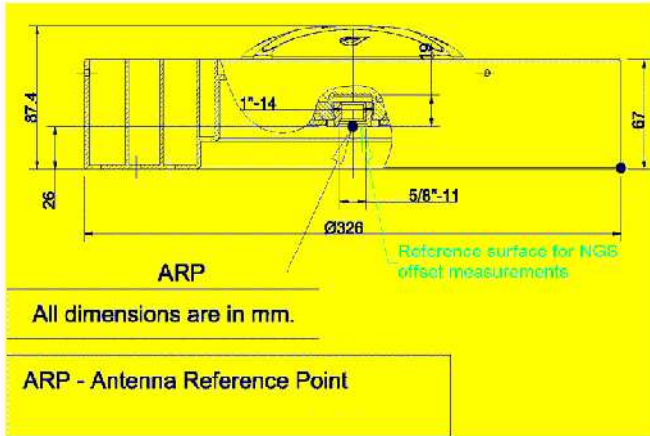
All dimensions are in mm.

ARP - Antenna Reference Point
SHMP - Slant Height Measurement Point



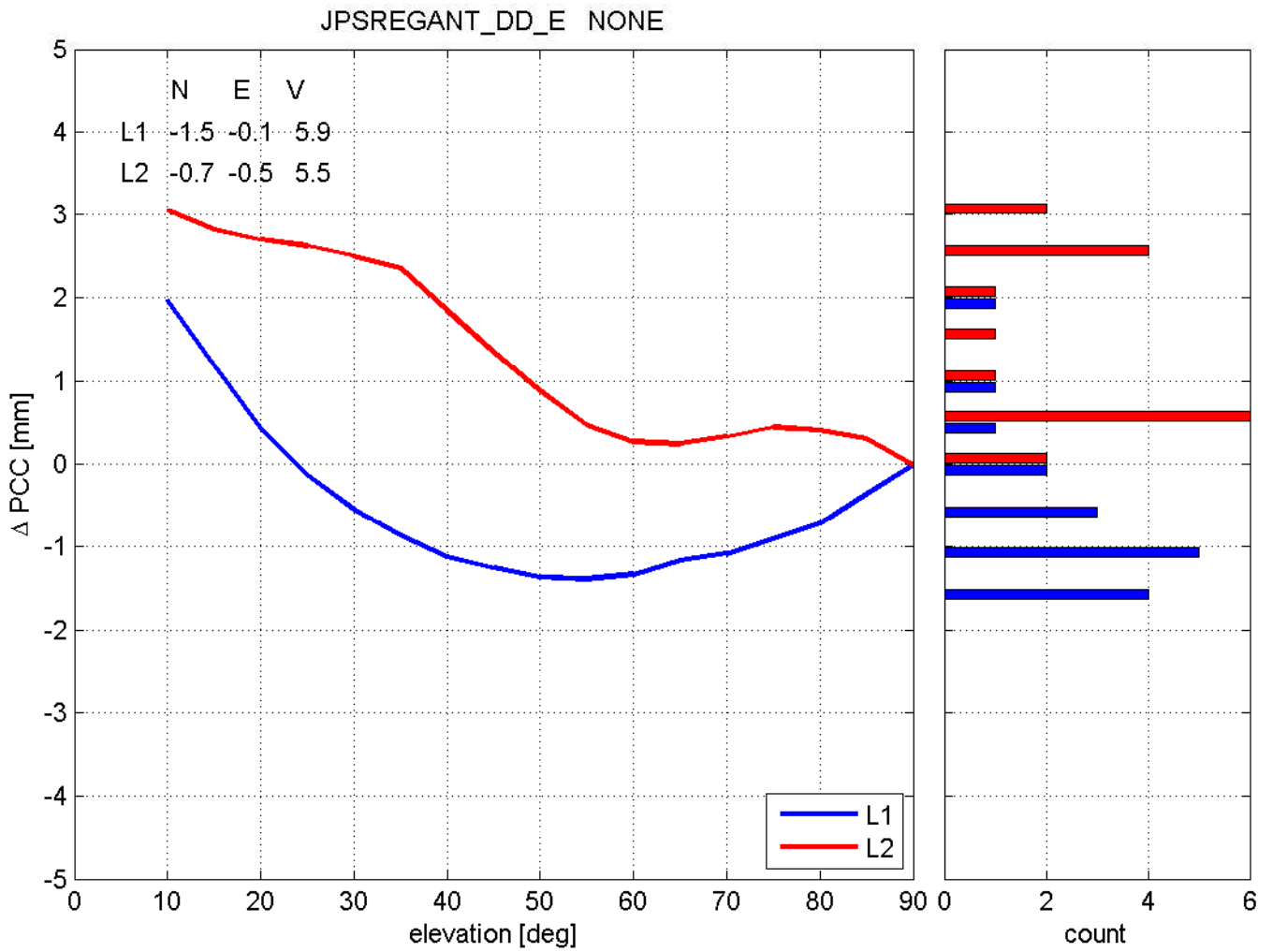
calib date:
09-Jan-2009

chokering (CR)



calib date:
07-Apr-1999

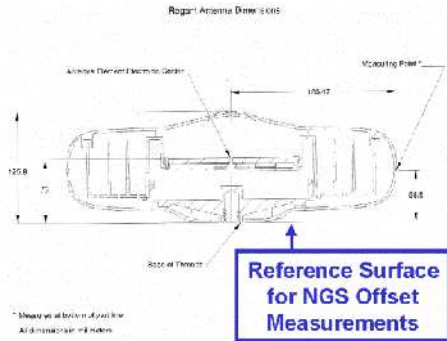
non-standard
choking



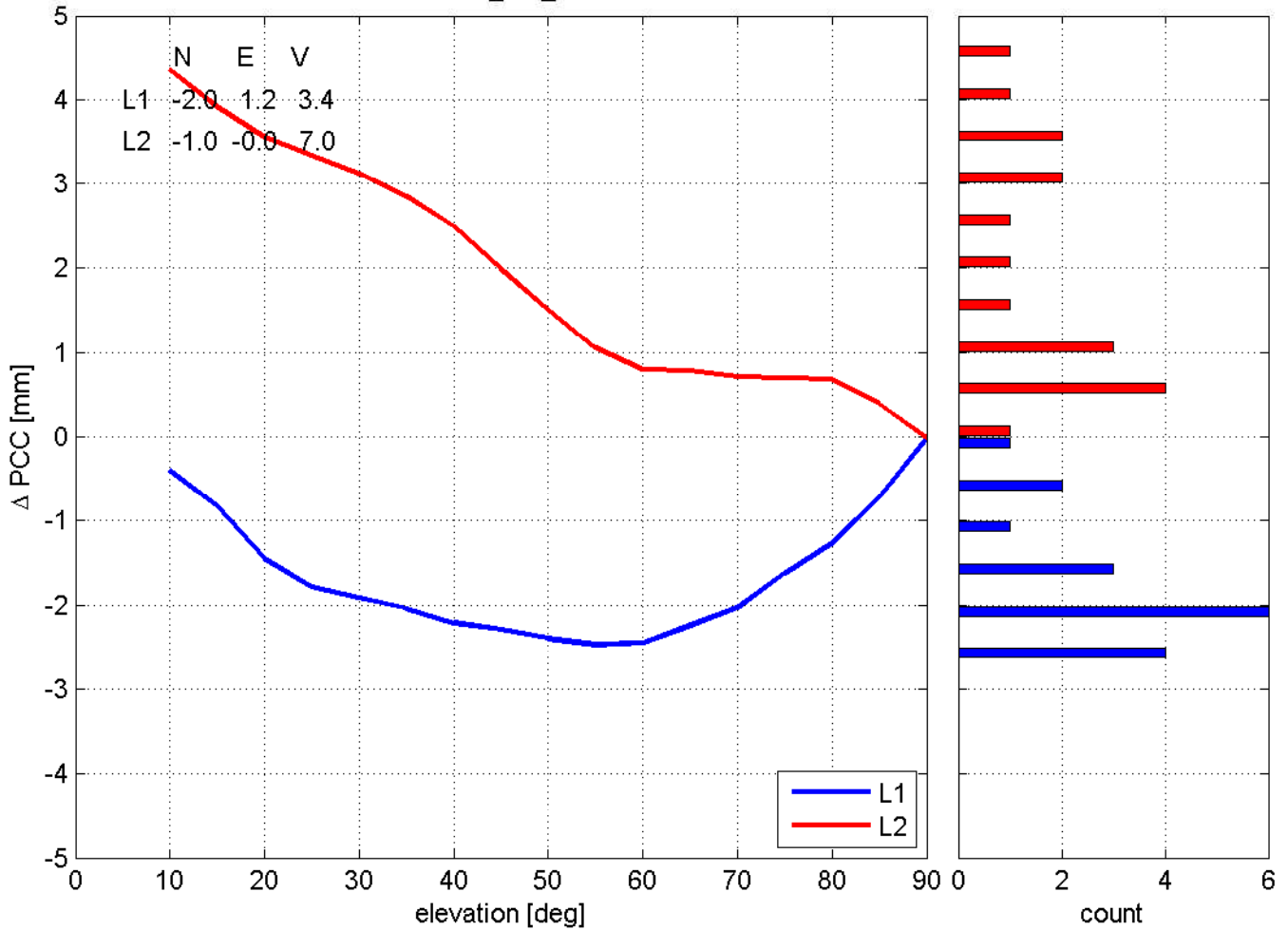
calib date:
05-Feb-1999

non-standard
choking

JPSREGANT_SD_E

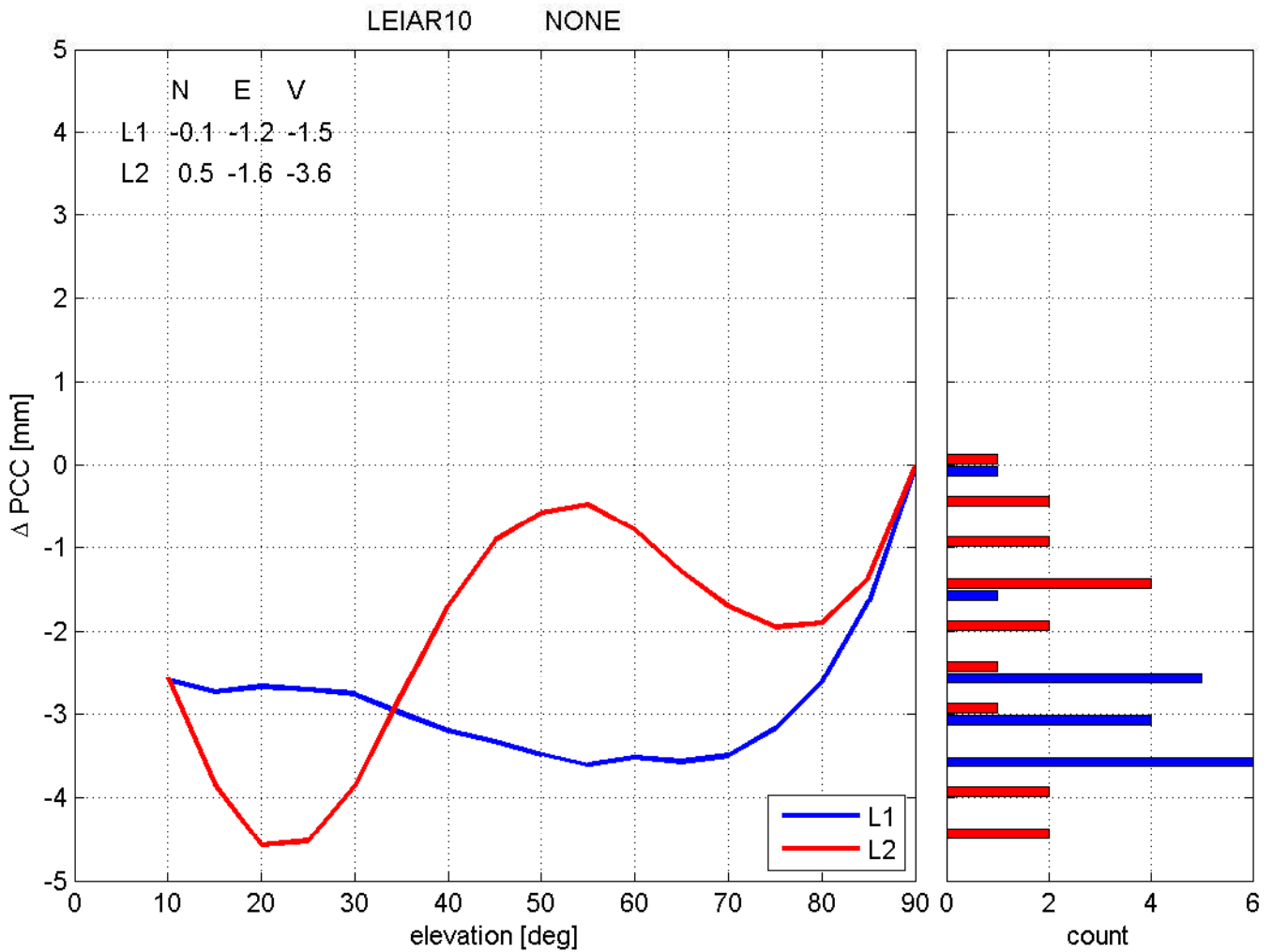
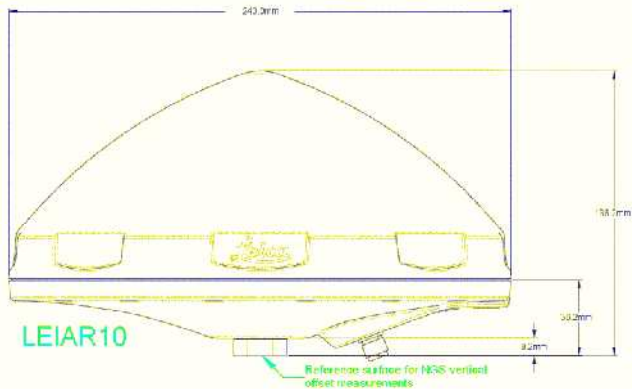


JPSREGANT_SD_E NONE



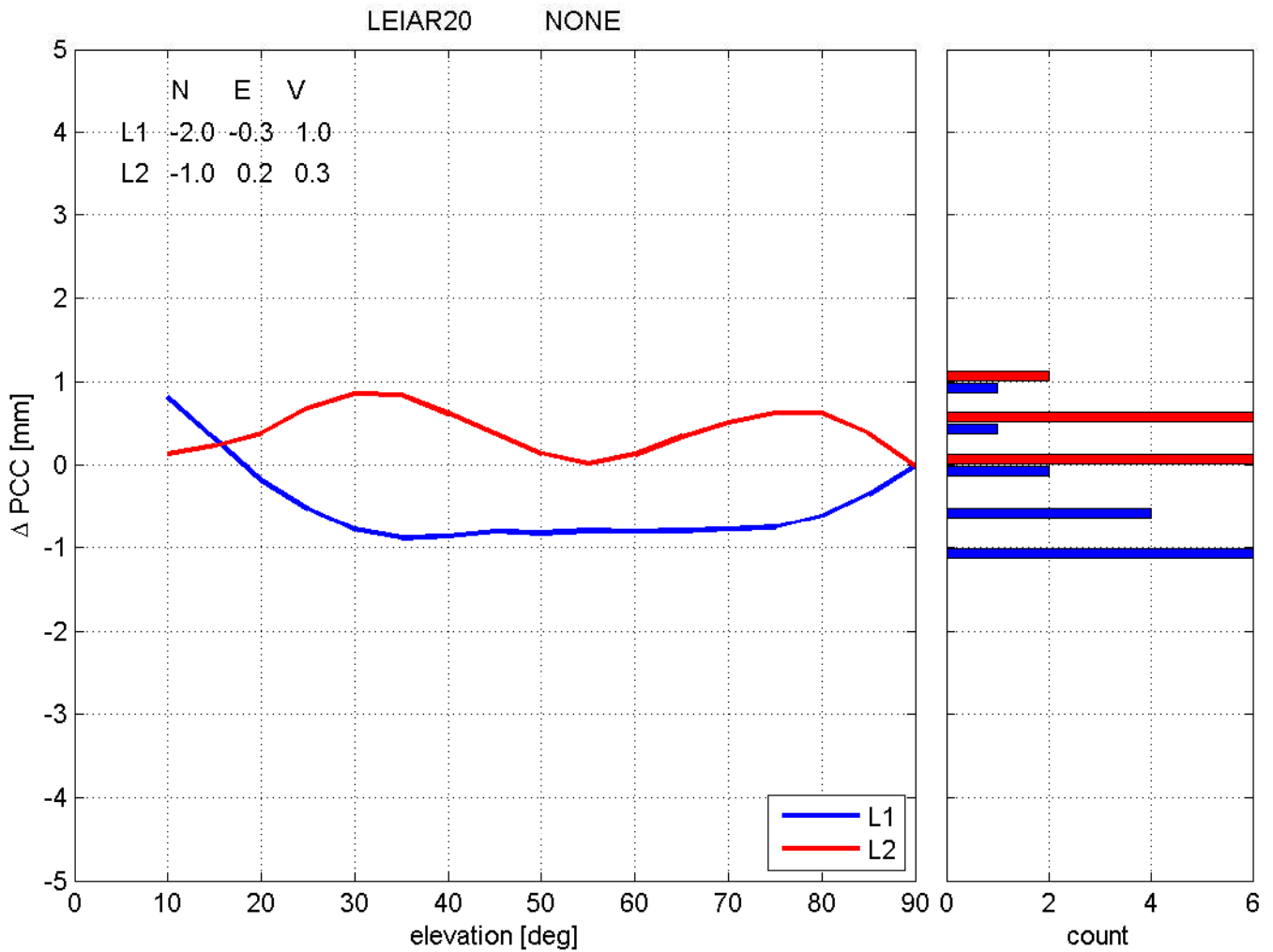
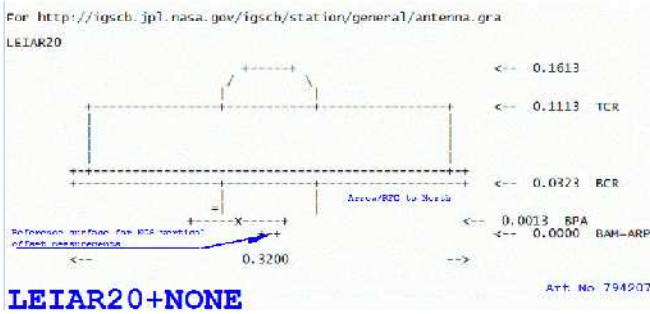
calib date:
26-Mar-2010

geodetic with
large groundplane



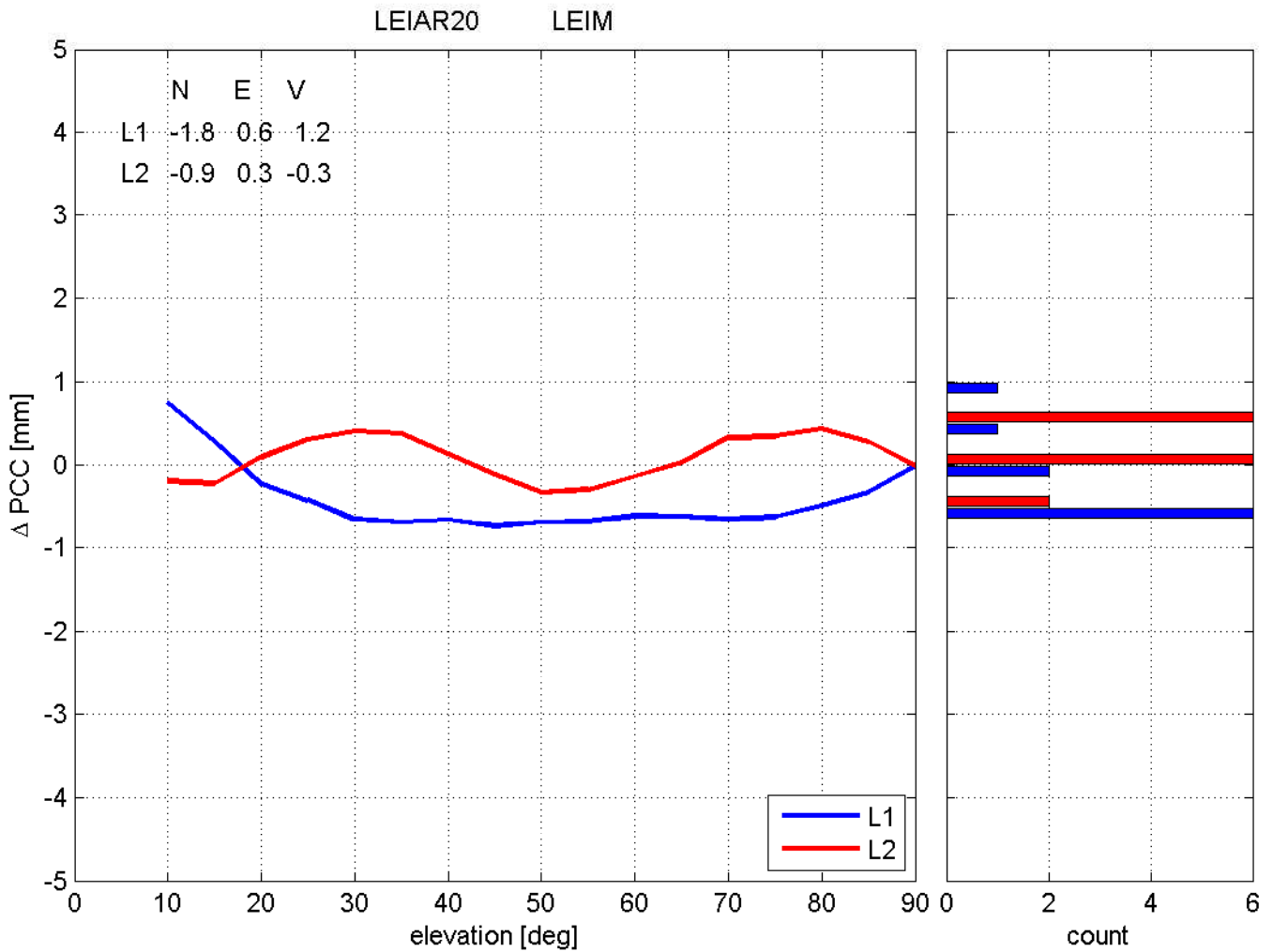
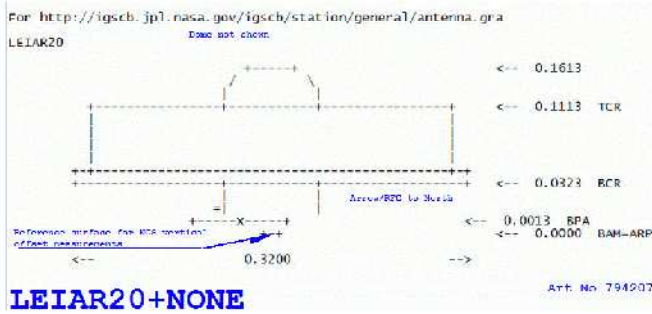
calib date:
07-Dec-2012

chokering (CR)



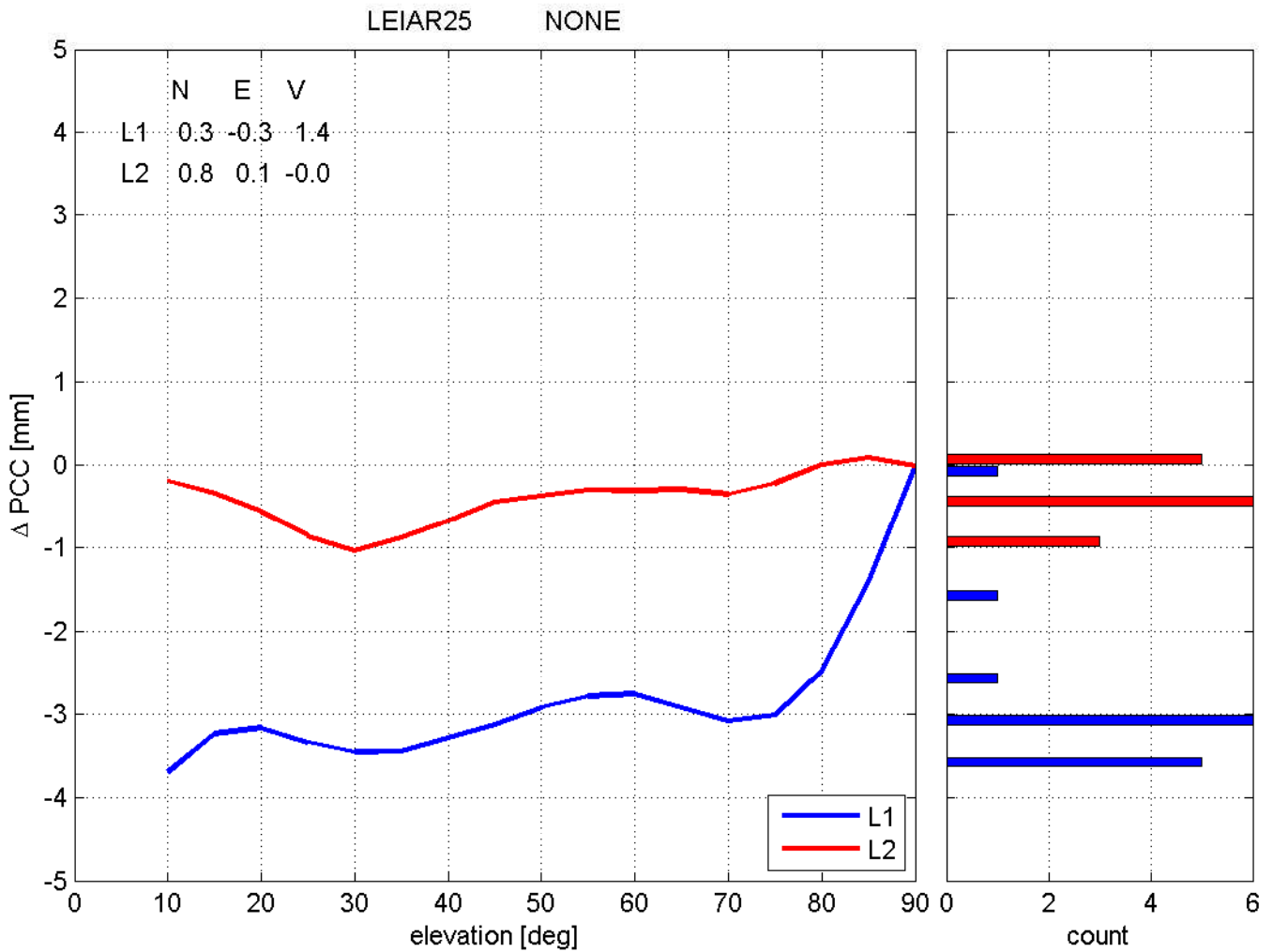
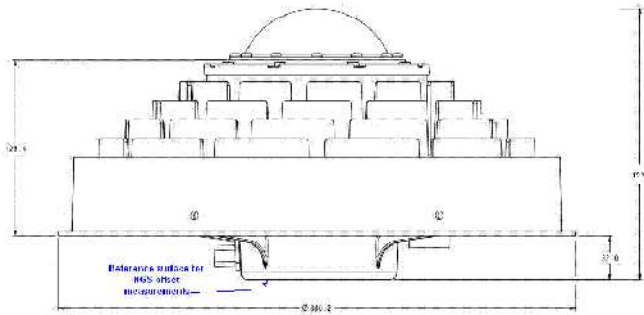
calib date:
14-Dec-2012

chokering (CR)



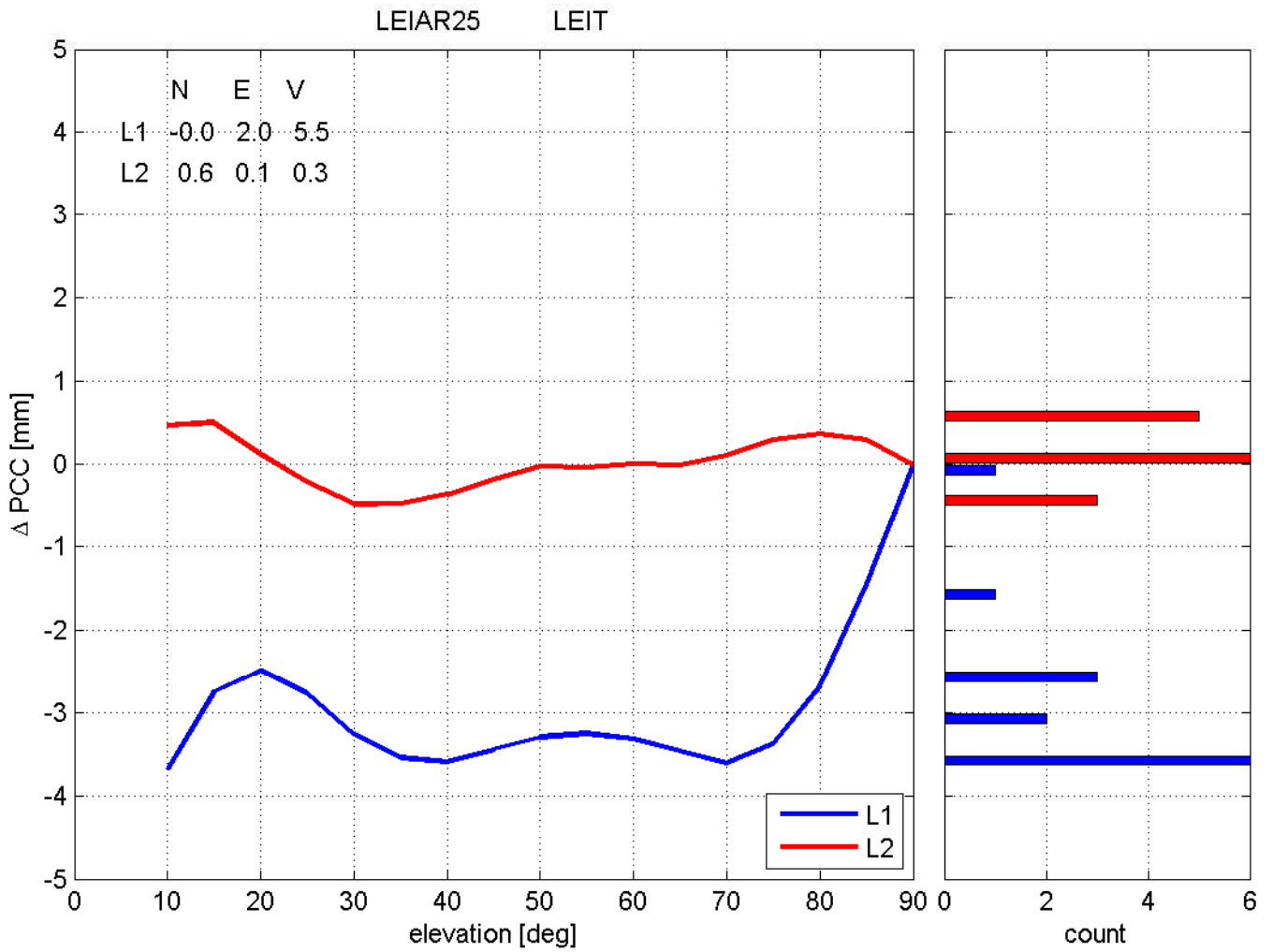
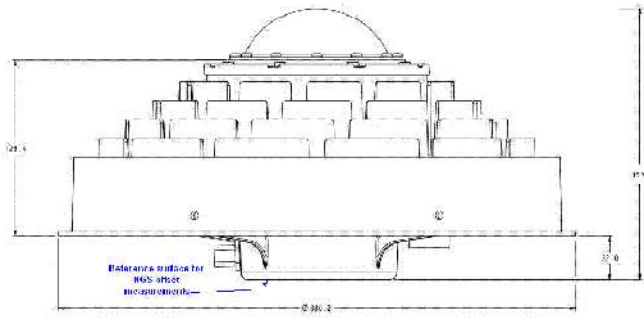
calib date:
05-Mar-2009

non-standard
chokering



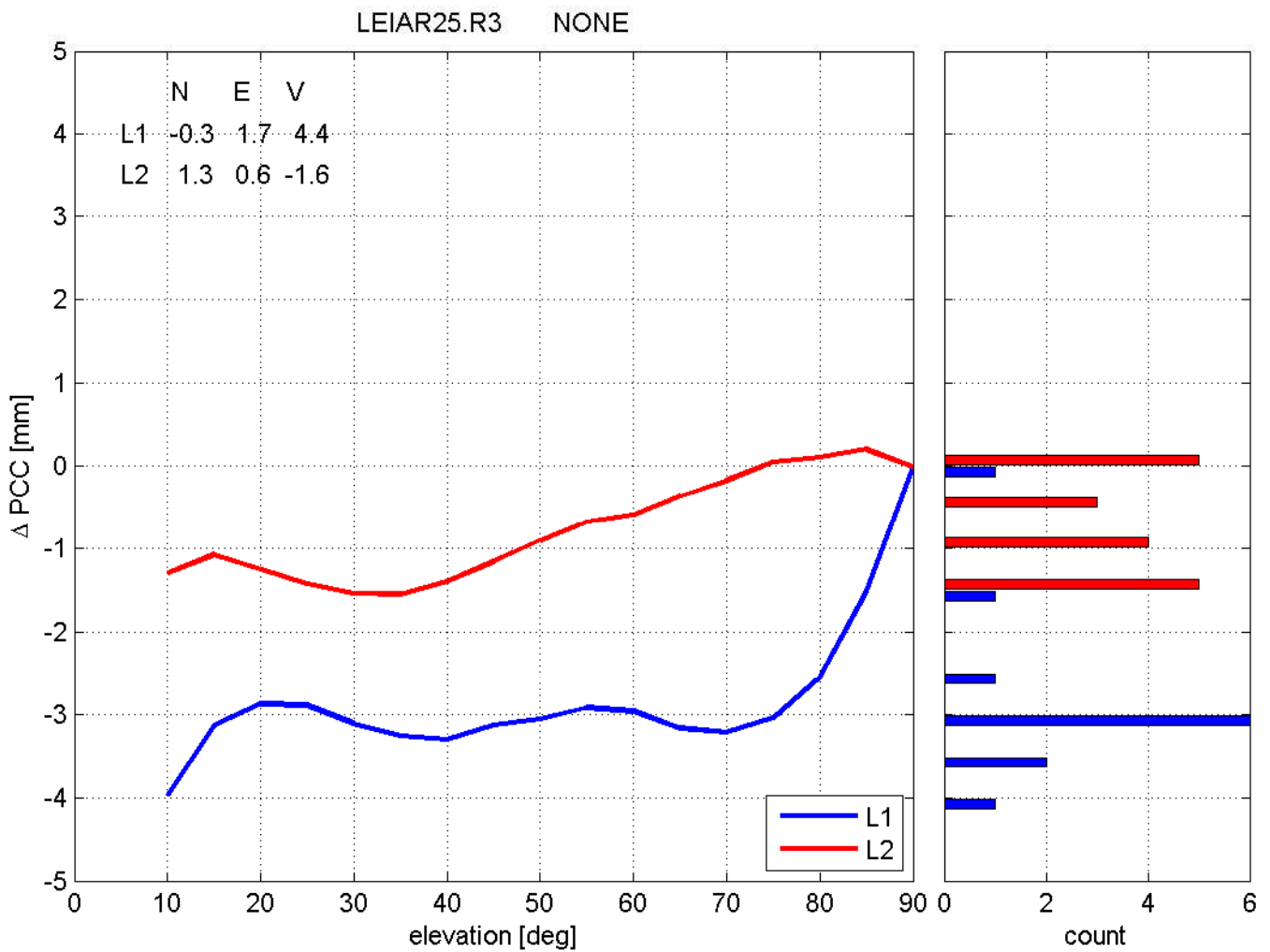
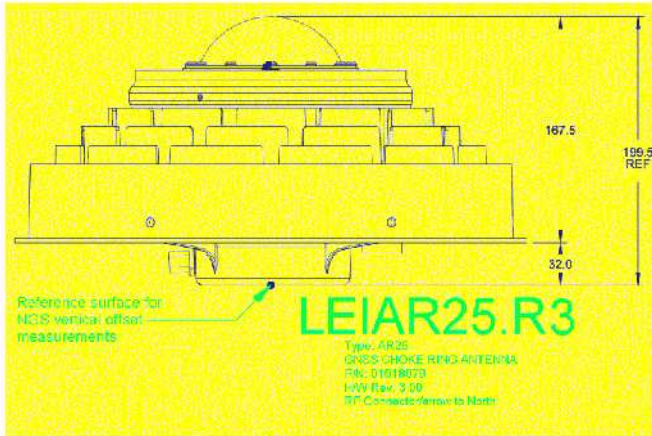
calib date:
19-Mar-2009

non-standard
chokering



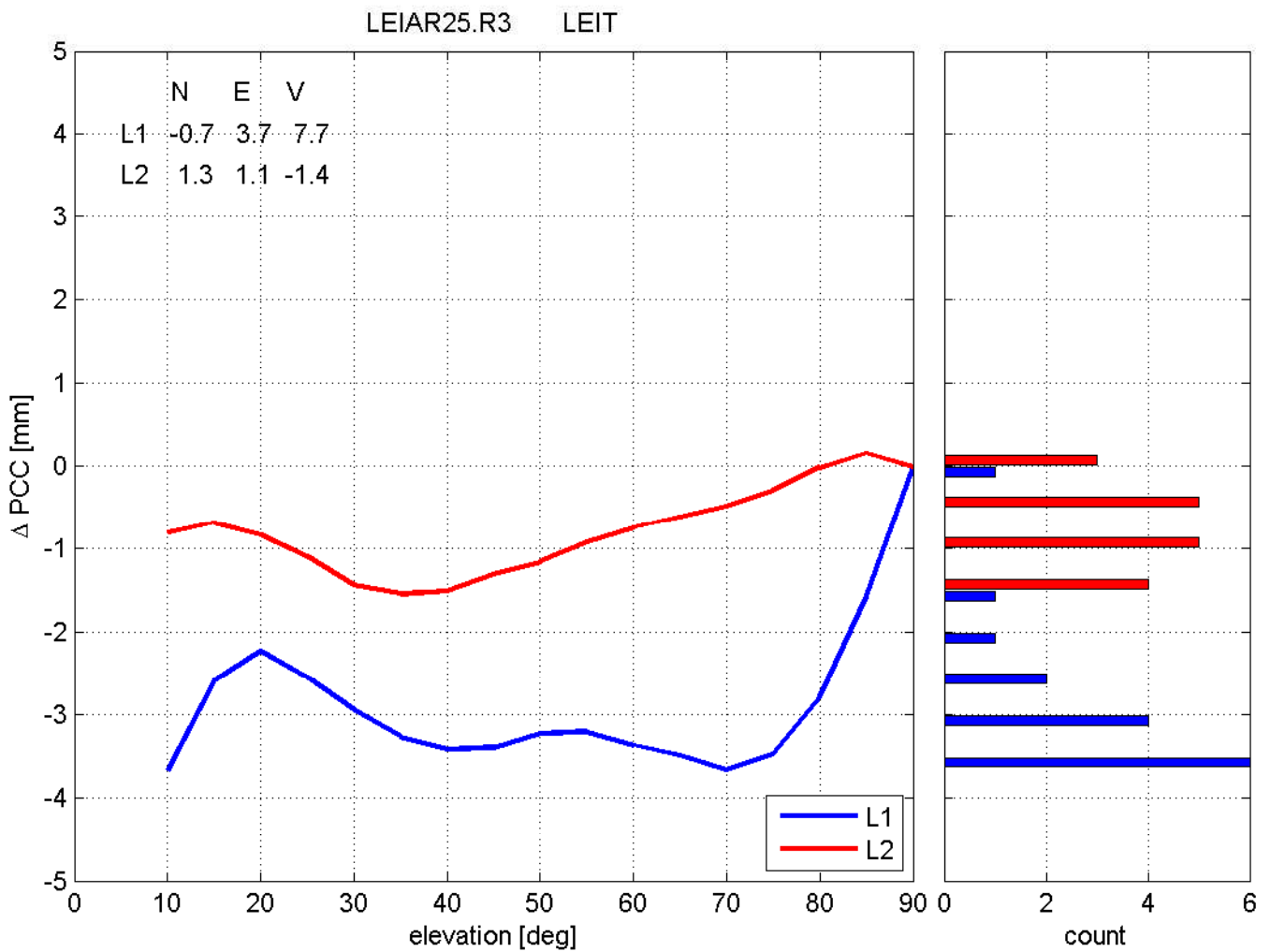
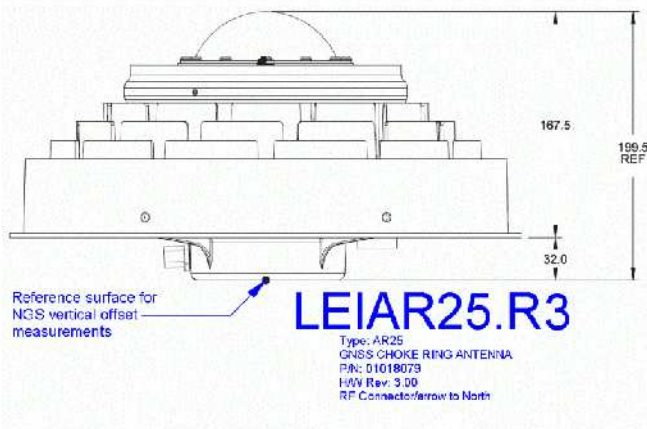
calib date:
22-Nov-2010

non-standard
chokering



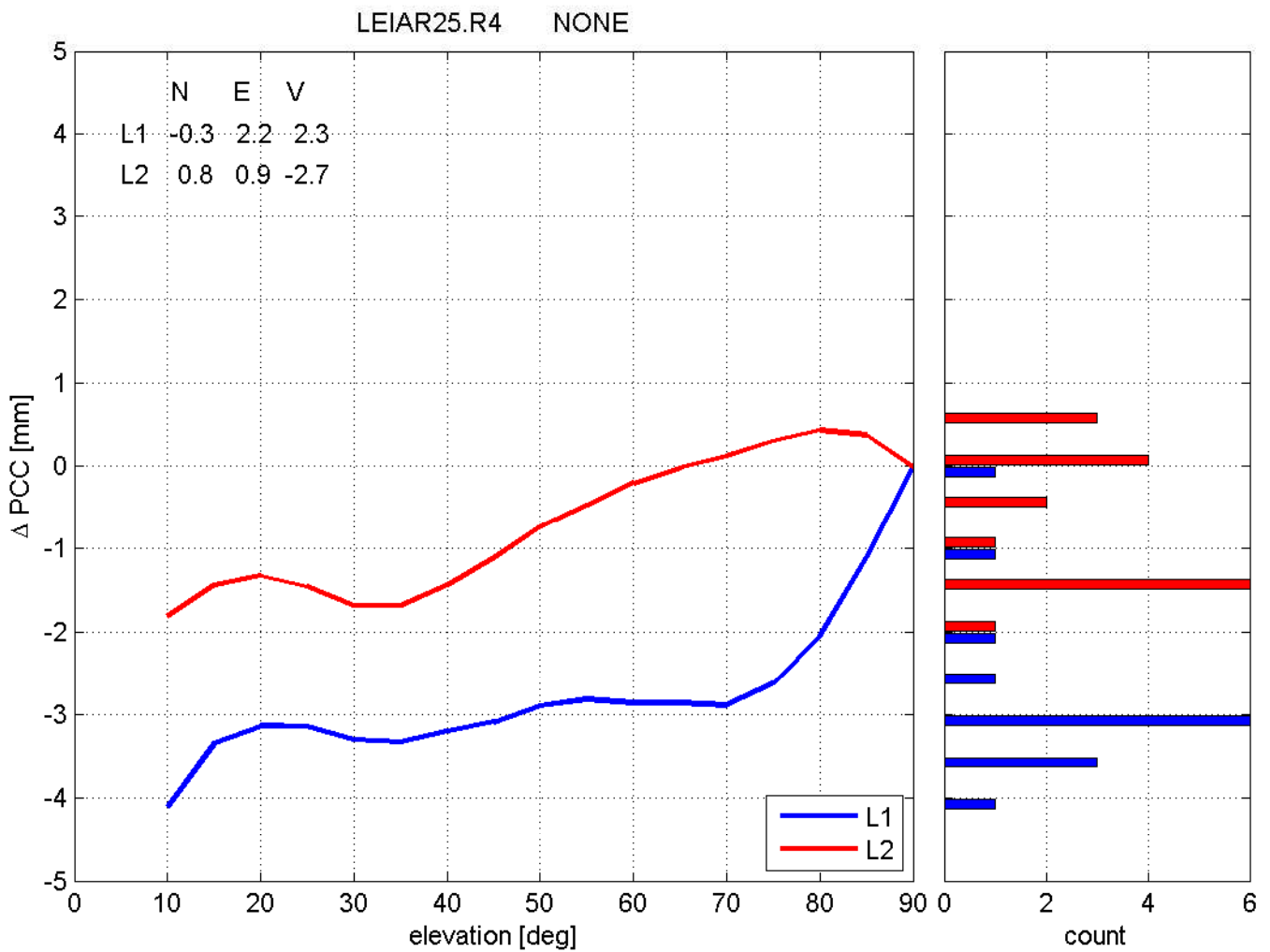
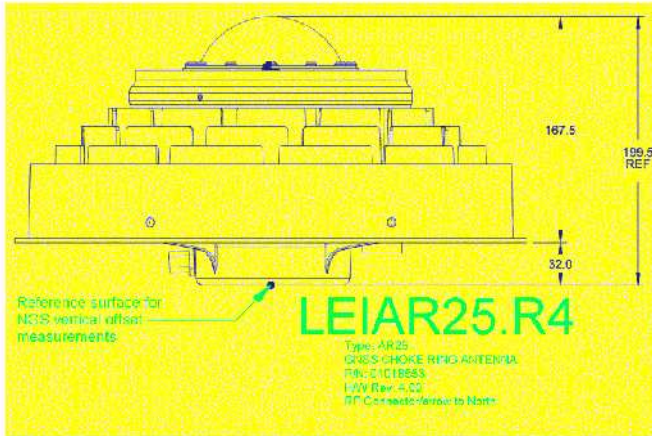
calib date:
22-Nov-2010

non-standard
choking



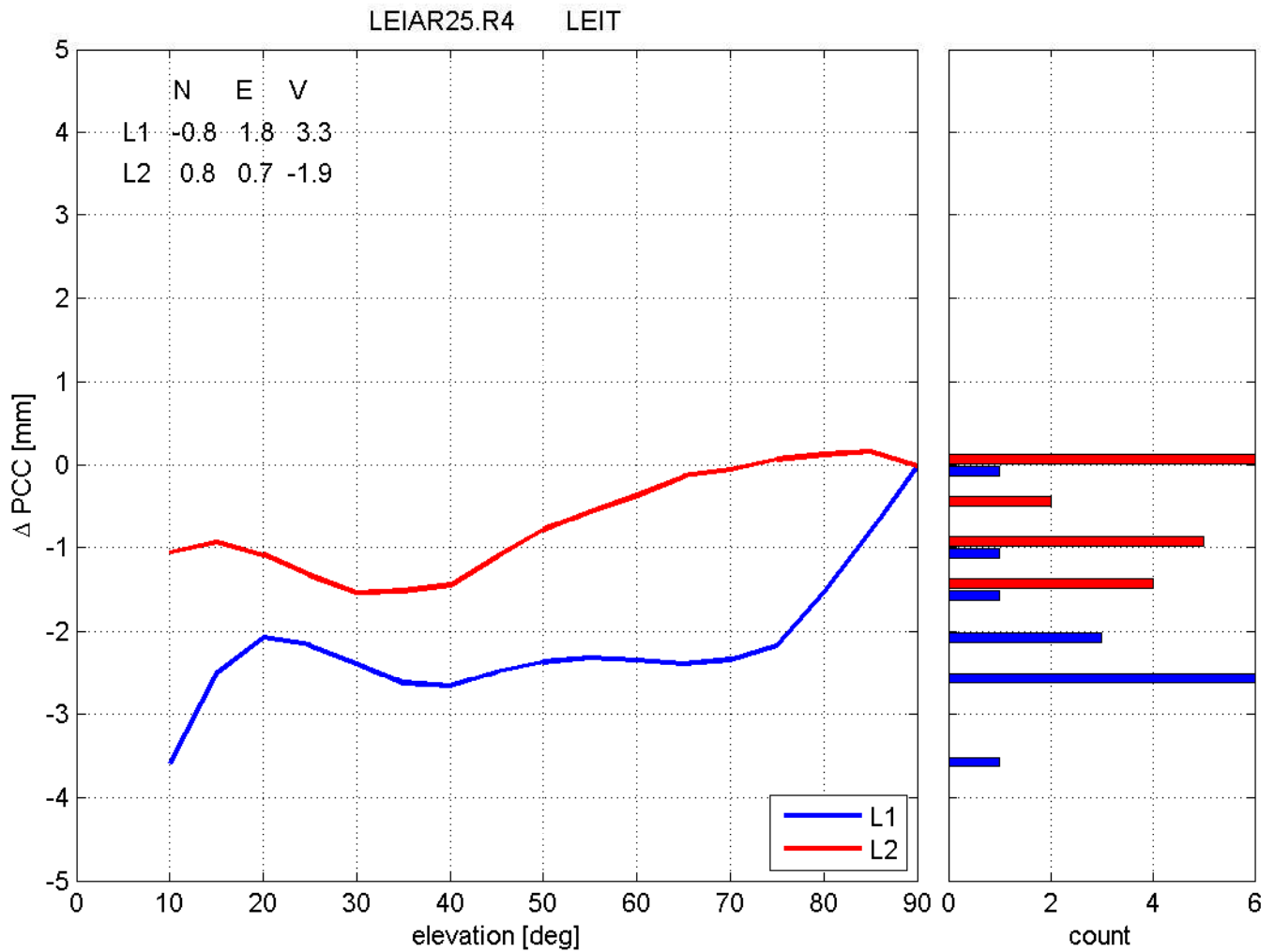
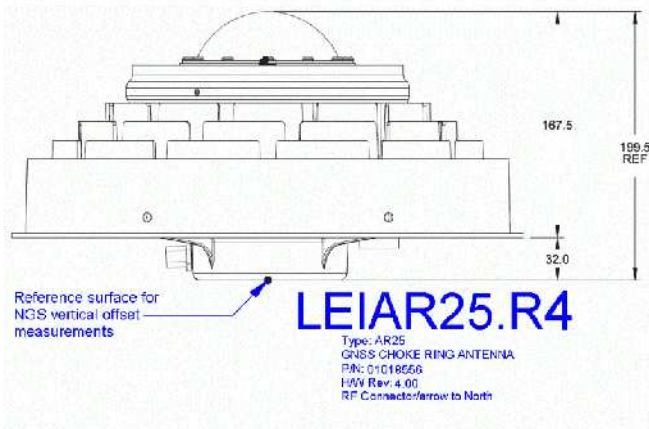
calib date:
16-Nov-2010

non-standard
choking



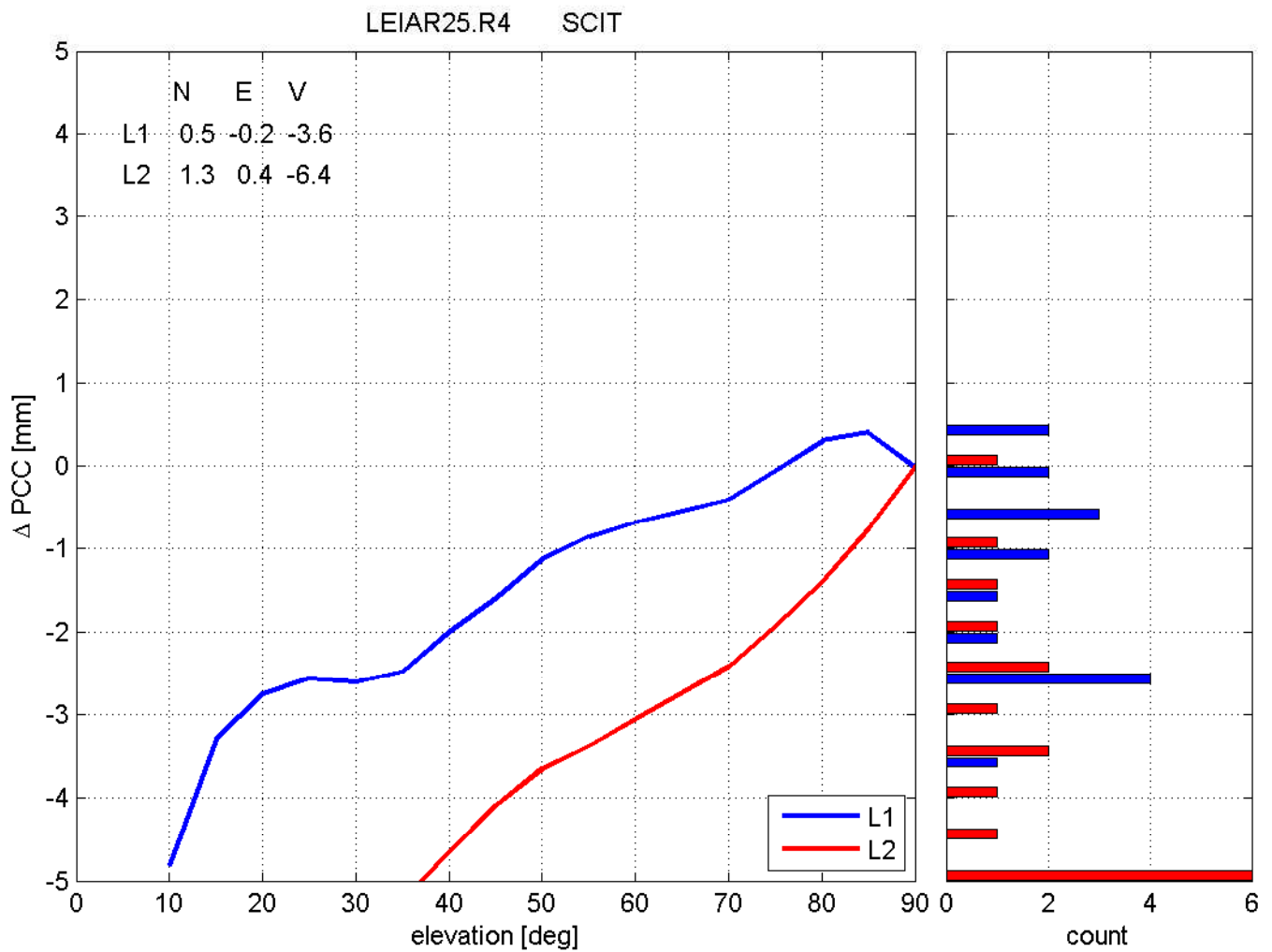
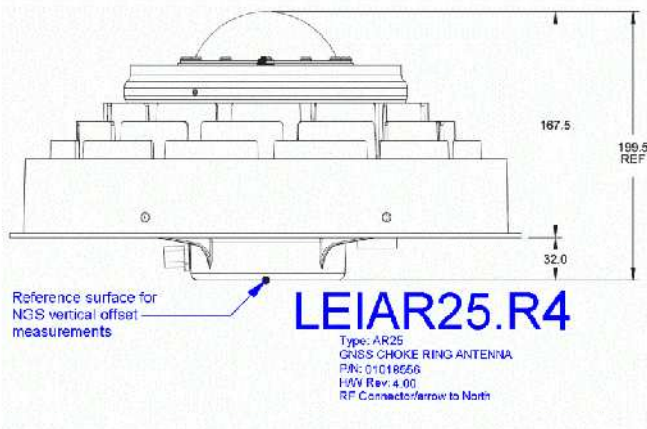
calib date:
16-Nov-2010

non-standard
choking



calib date:
18-Feb-2011

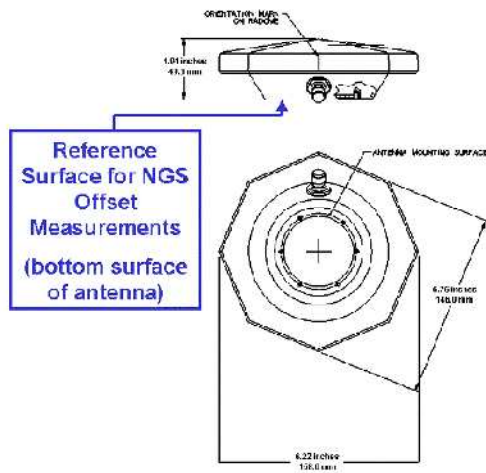
non-standard
choking



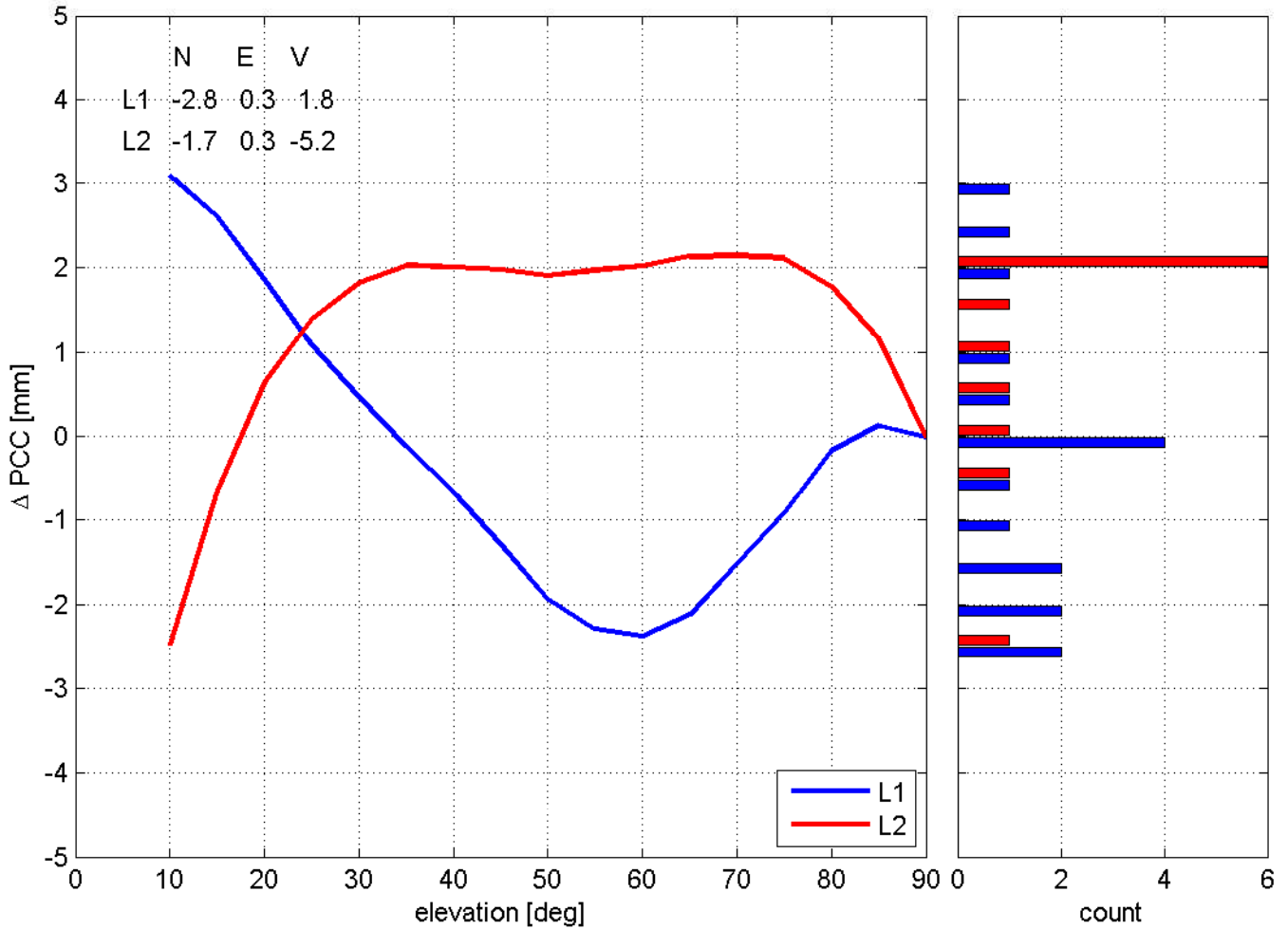
calib date:
01-Jun-1998

patch without
groundplane
(-GP)

LEI AT202 & LEI AT302
(without groundplane)

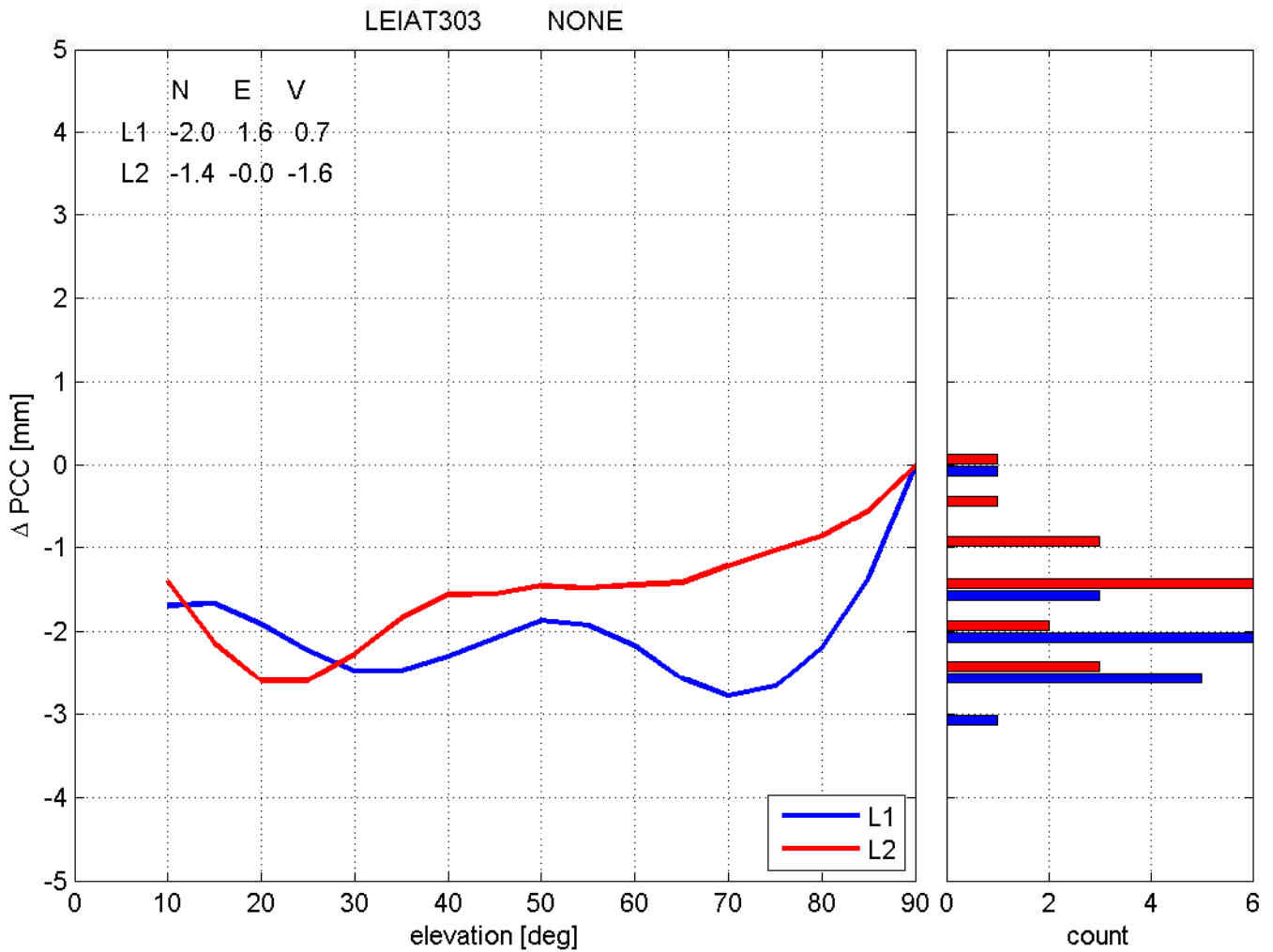
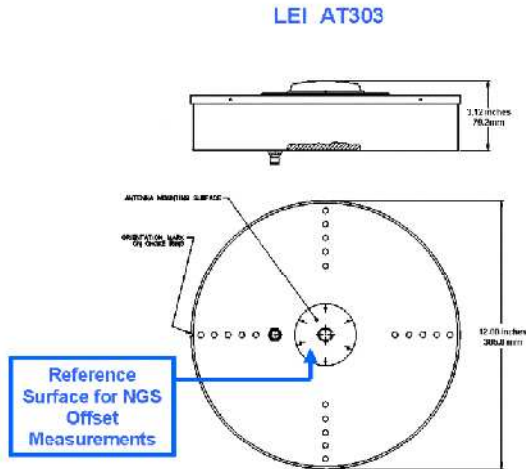


LEI AT302-GP NONE



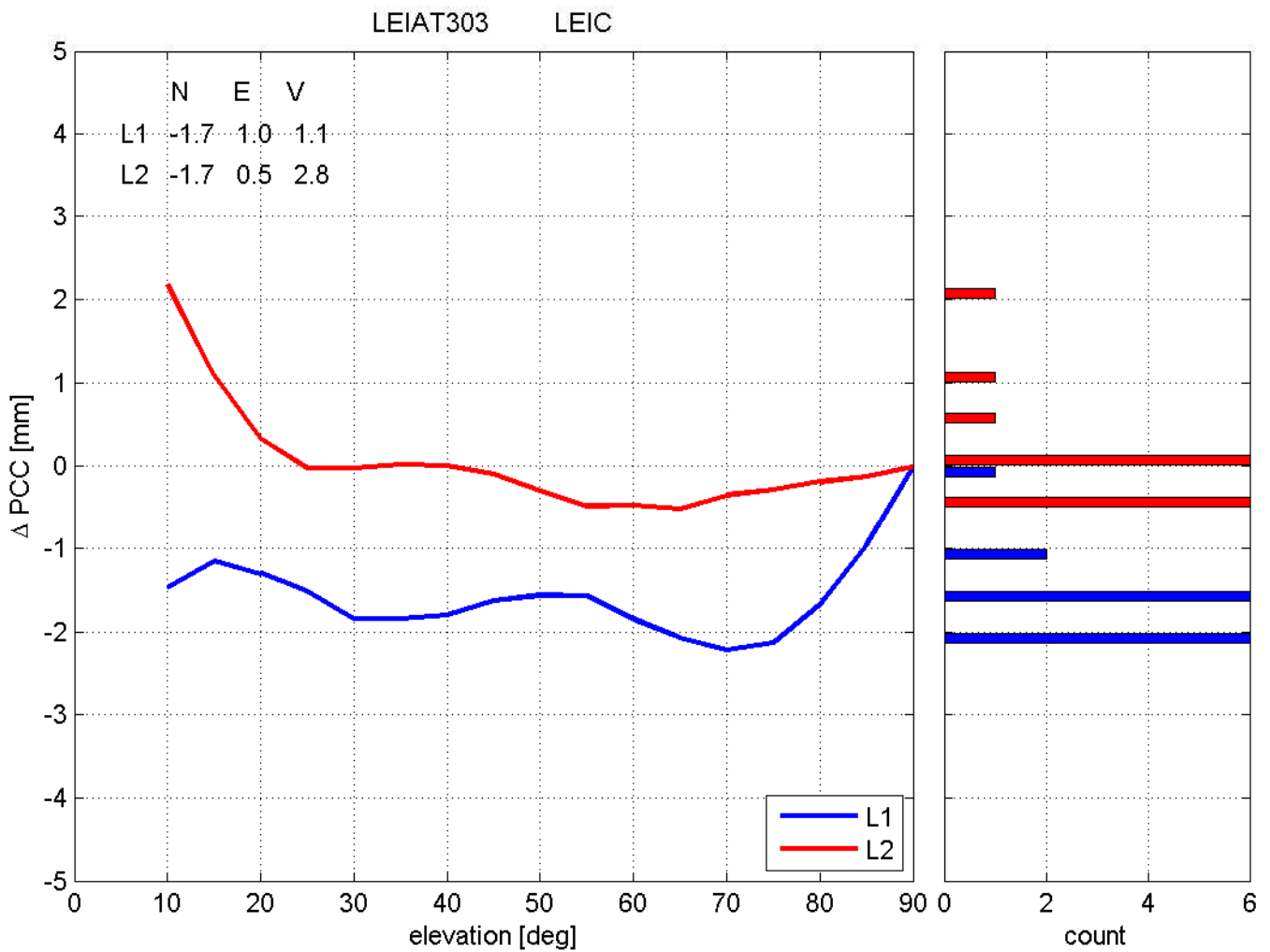
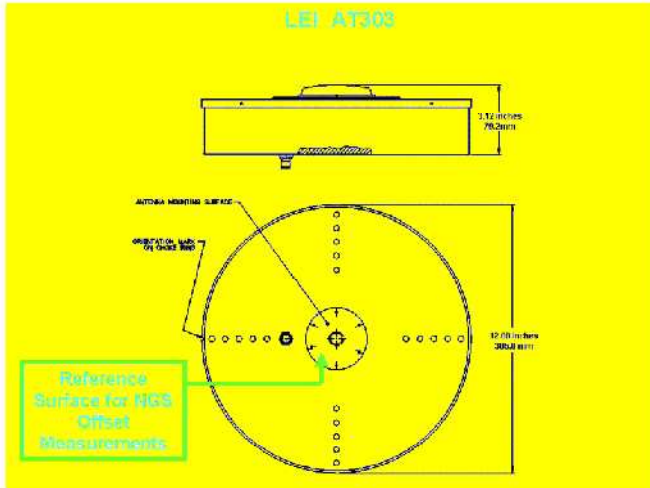
calib date:
22-Jul-1998

chokering (CR)



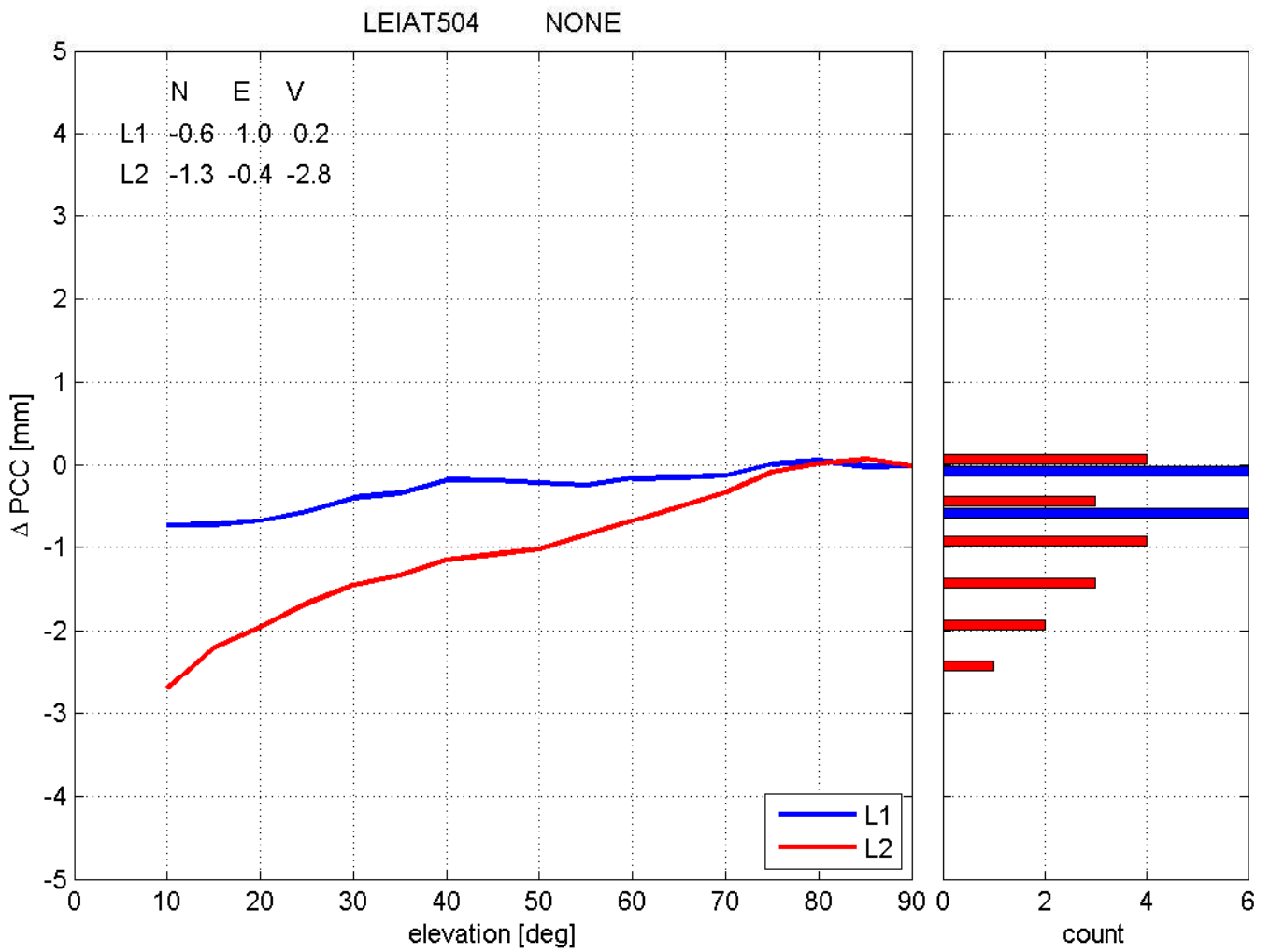
calib date:
22-Jul-1998

chokering (CR)



calib date:
05-Feb-1999

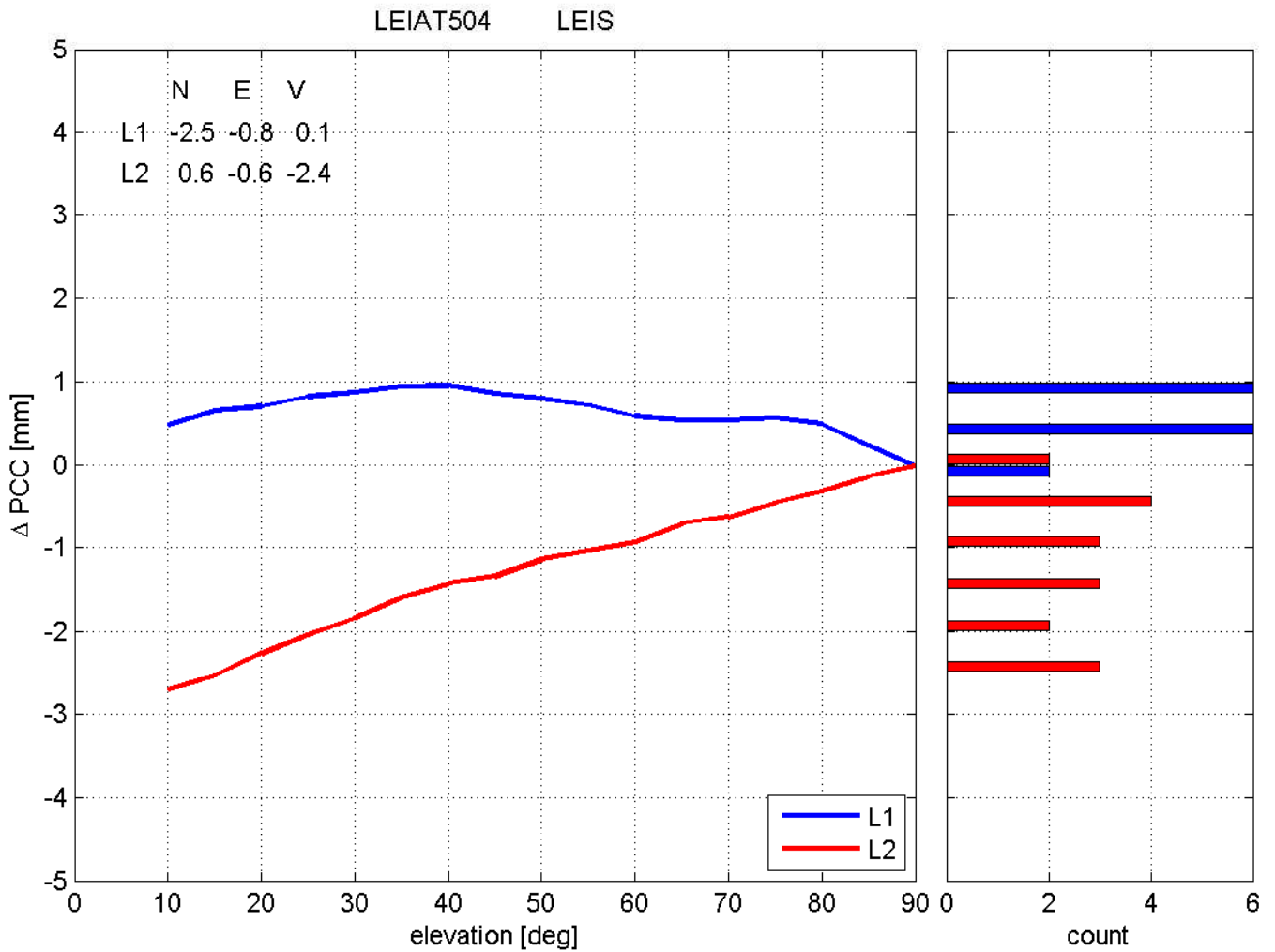
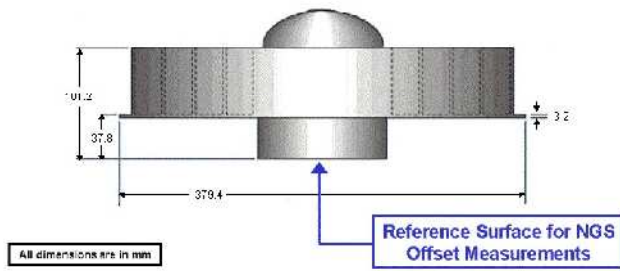
chokering (CR)



calib date:
07-Jan-2004

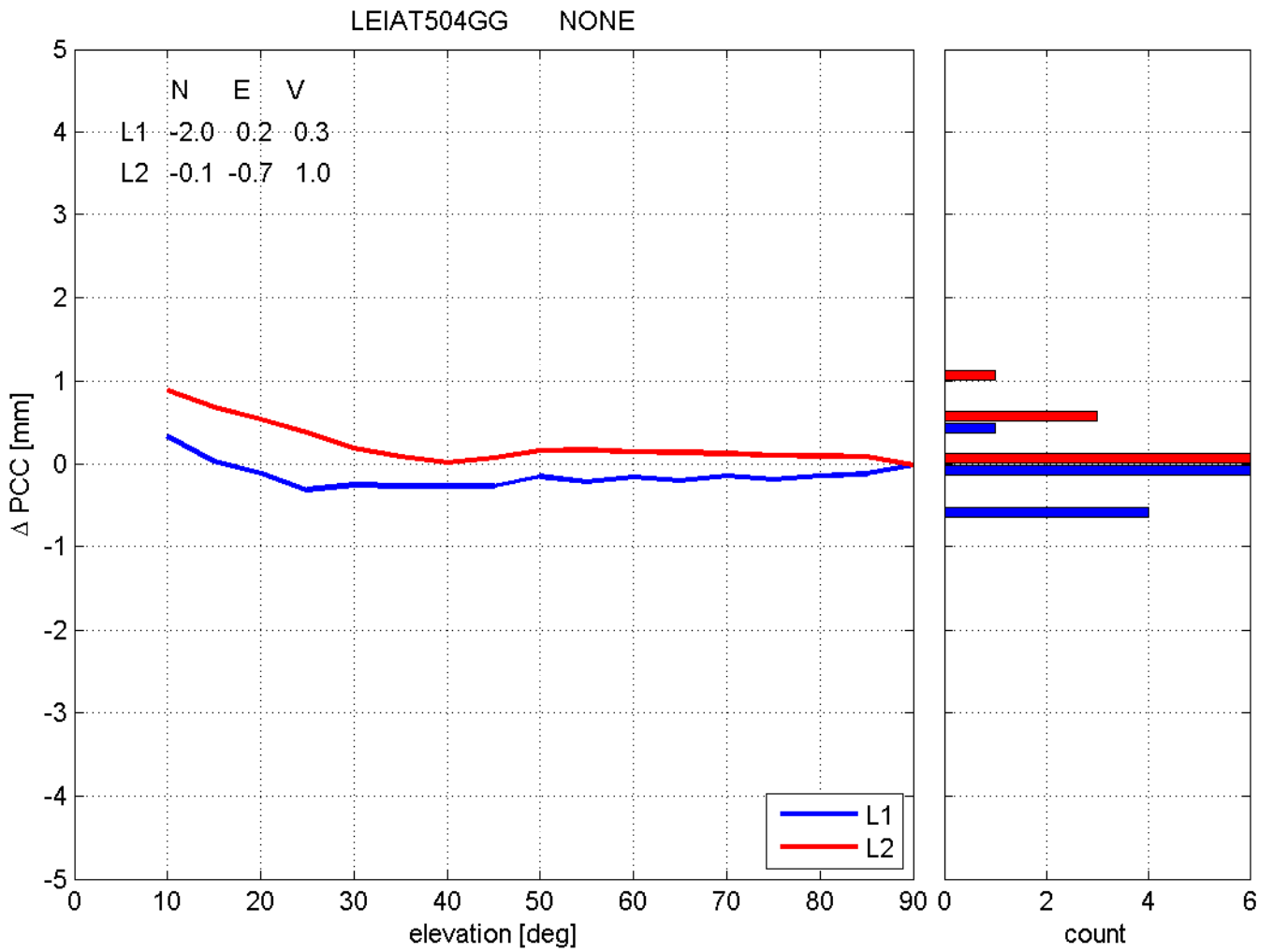
chokering (CR)

LEI AT504



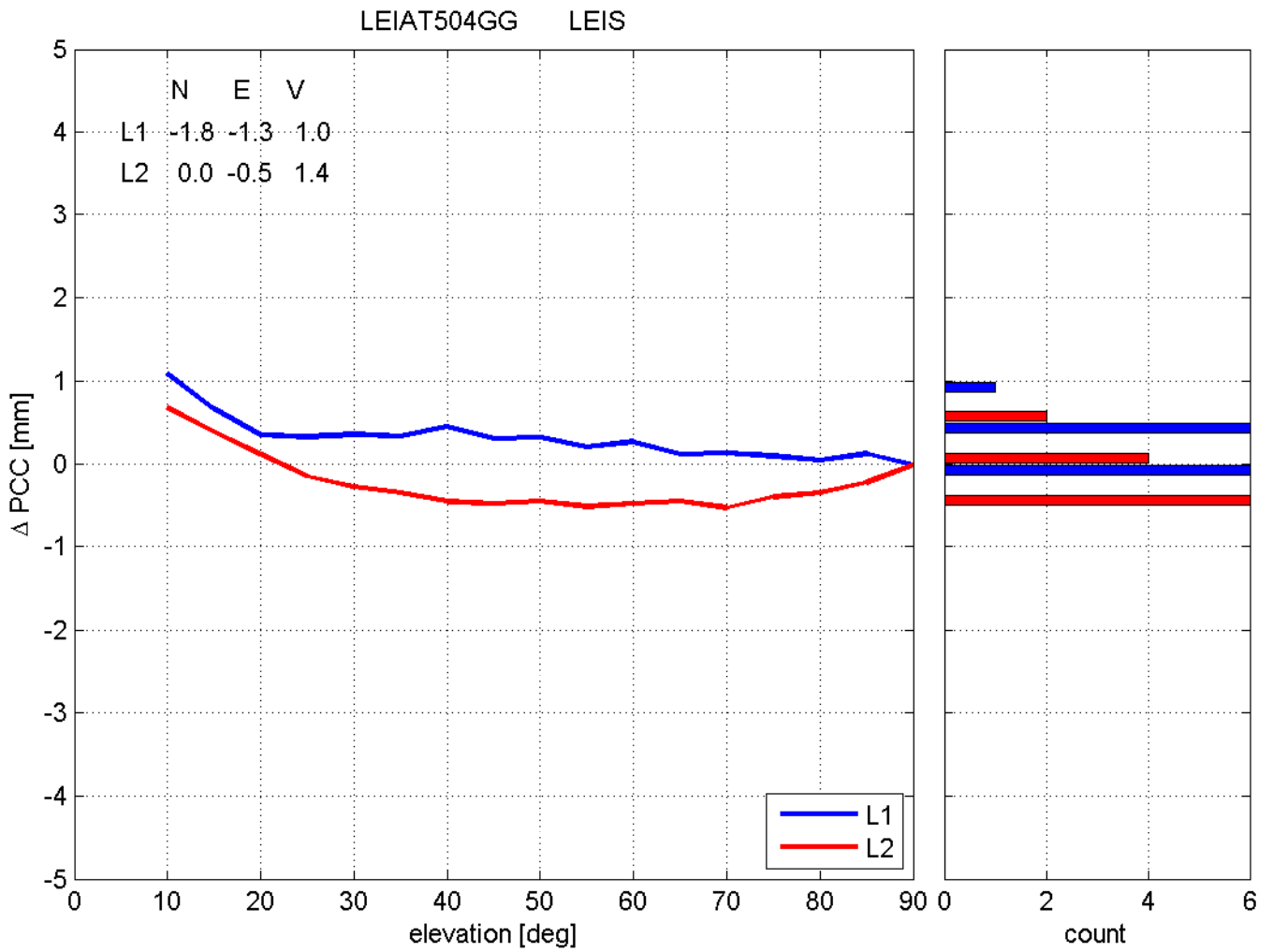
calib date:
20-Nov-2006

chokering (CR)



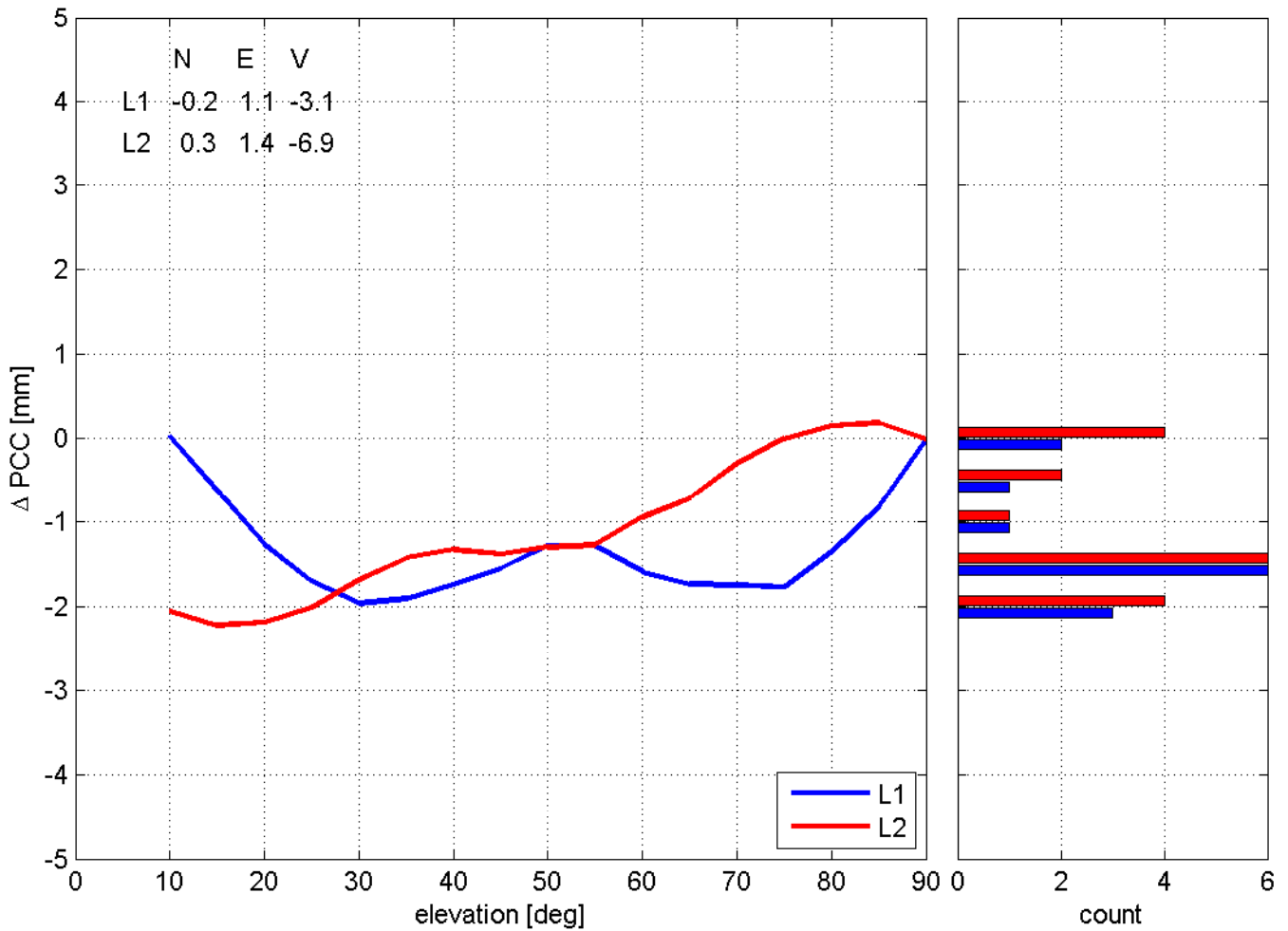
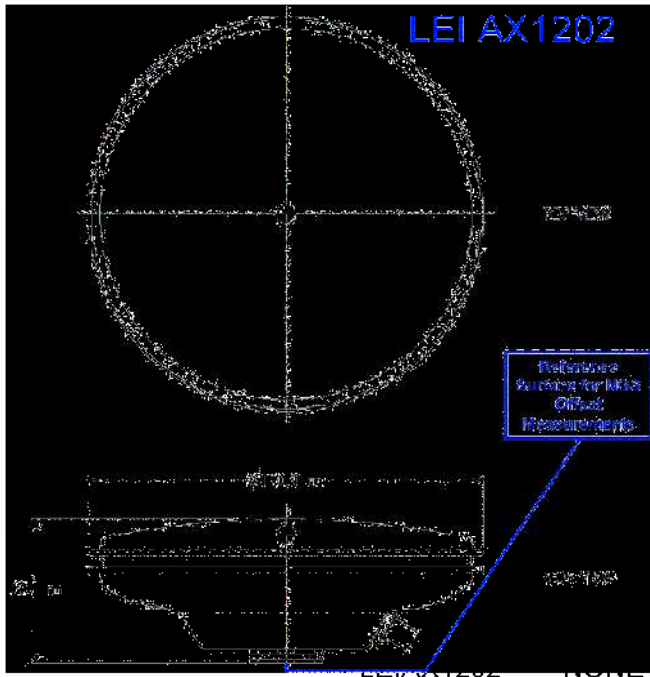
calib date:
29-Nov-2006

chokering (CR)



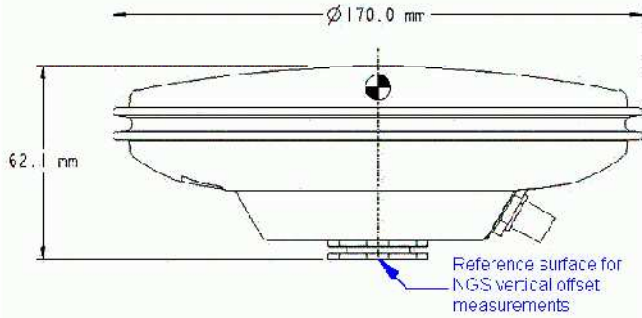
calib date:
07-Nov-2005

rover antenna (no
rx)

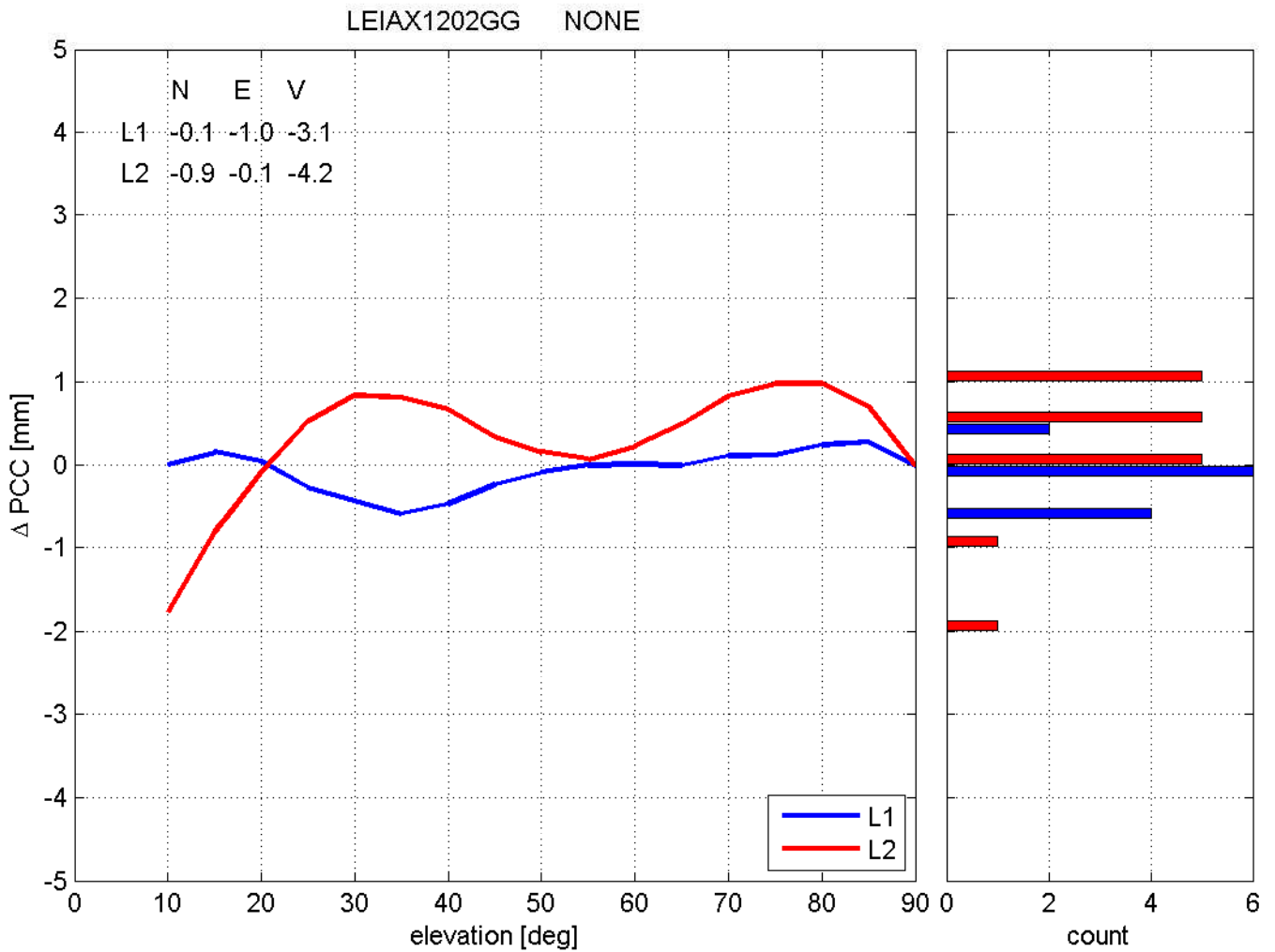


calib date:
29-Sep-2006

rover antenna (no
rx)

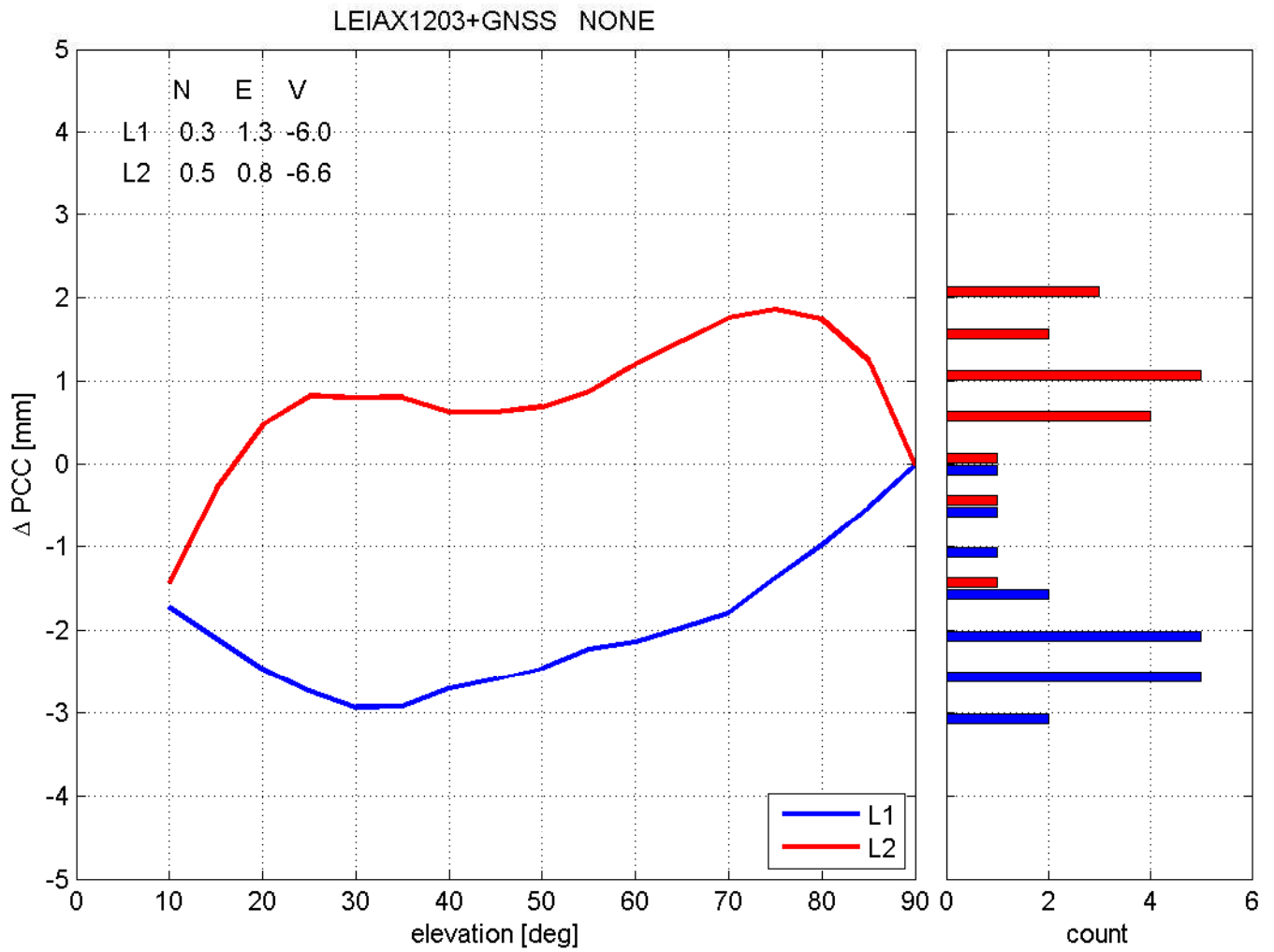
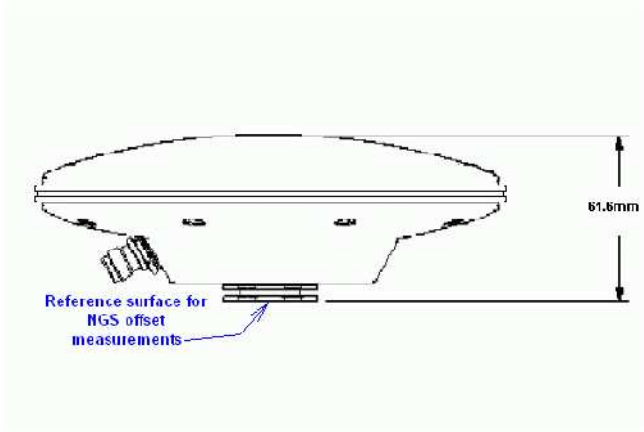


LEIAX1202GG



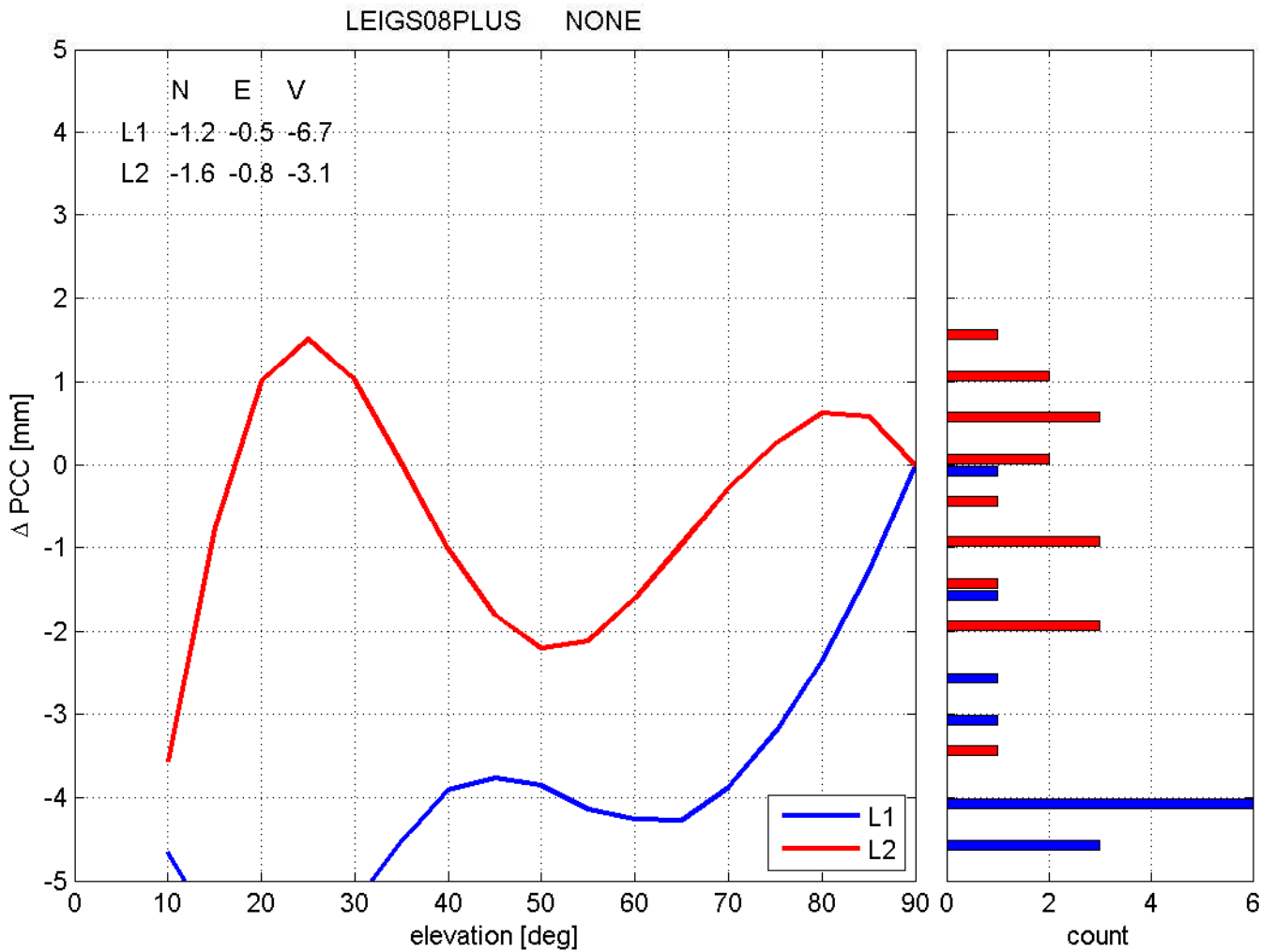
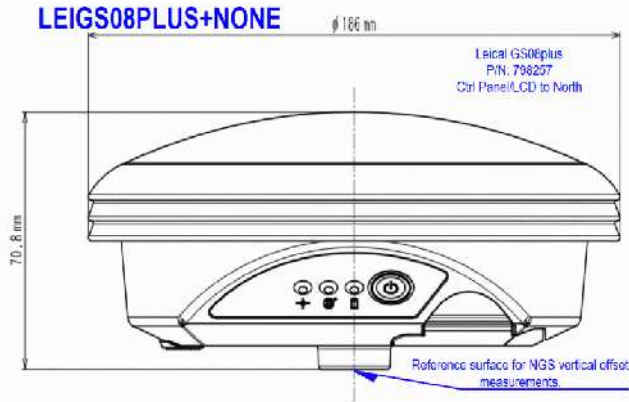
calib date:
14-Dec-2008

rover antenna (no
rx)



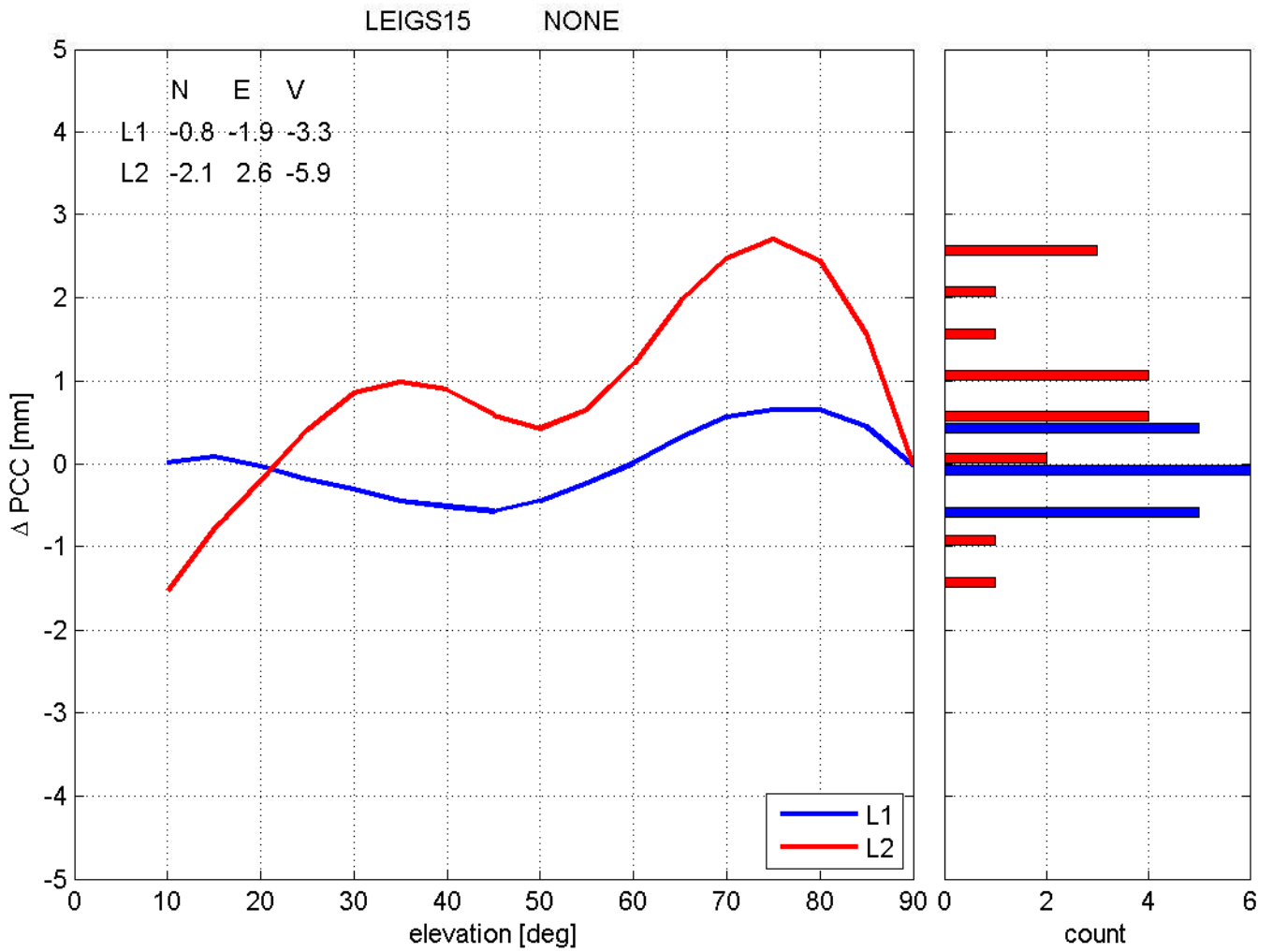
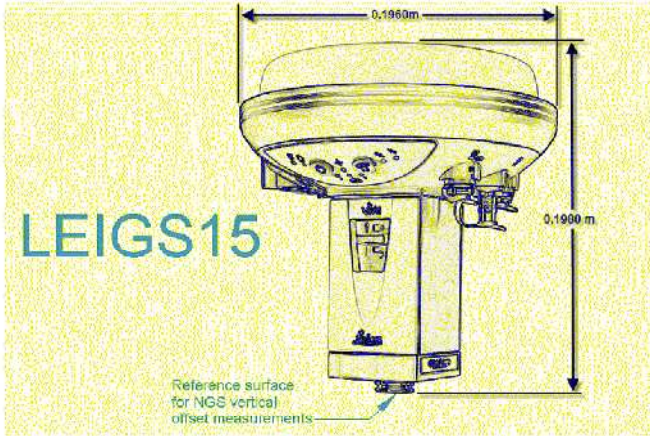
calib date:
14-Aug-2012

integrated
antenna/receiver



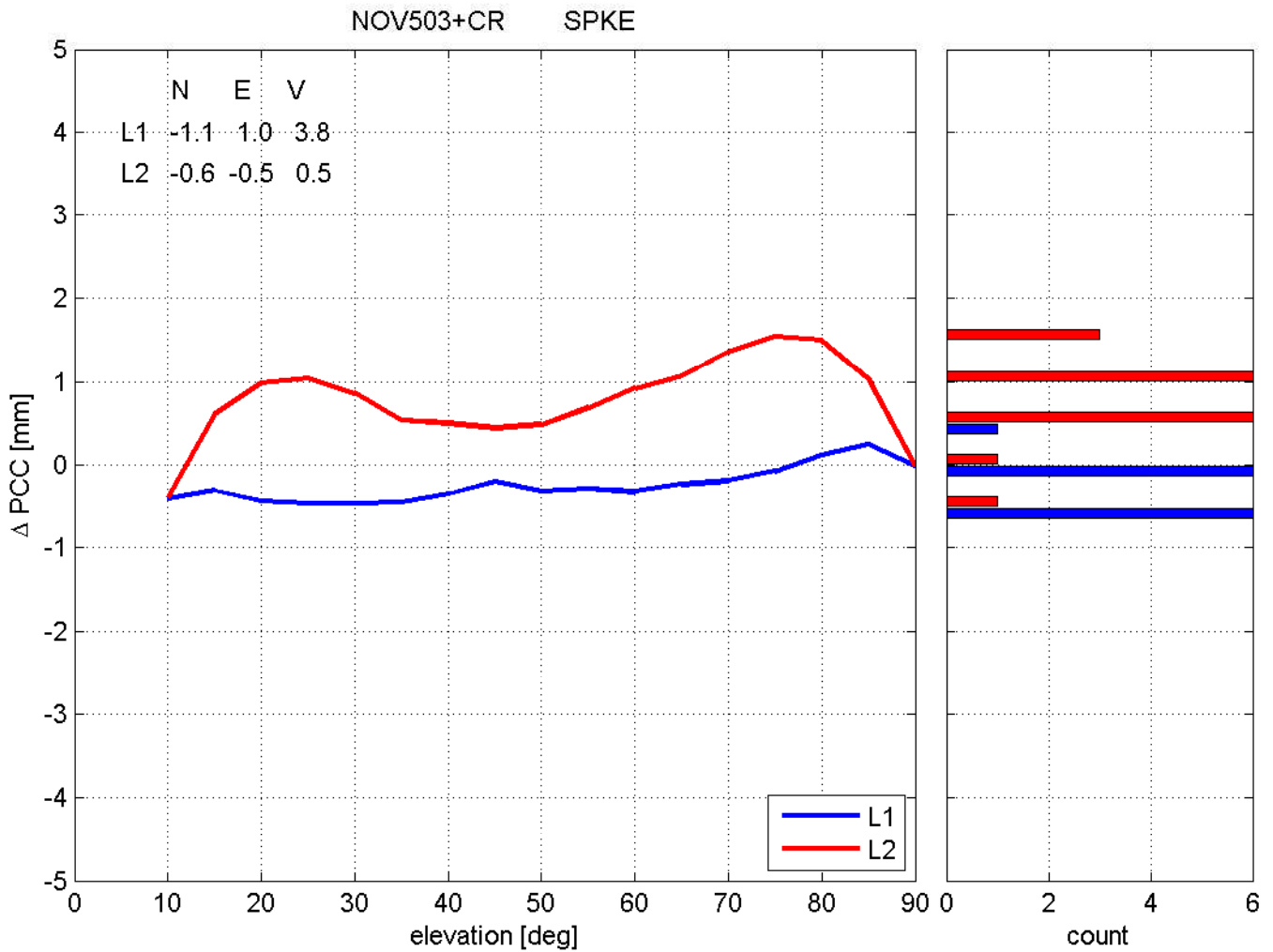
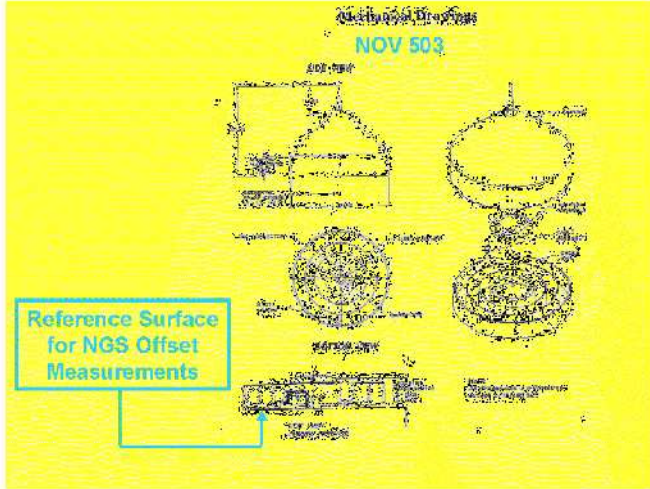
calib date:
08-Mar-2010

integrated
antenna/receiver



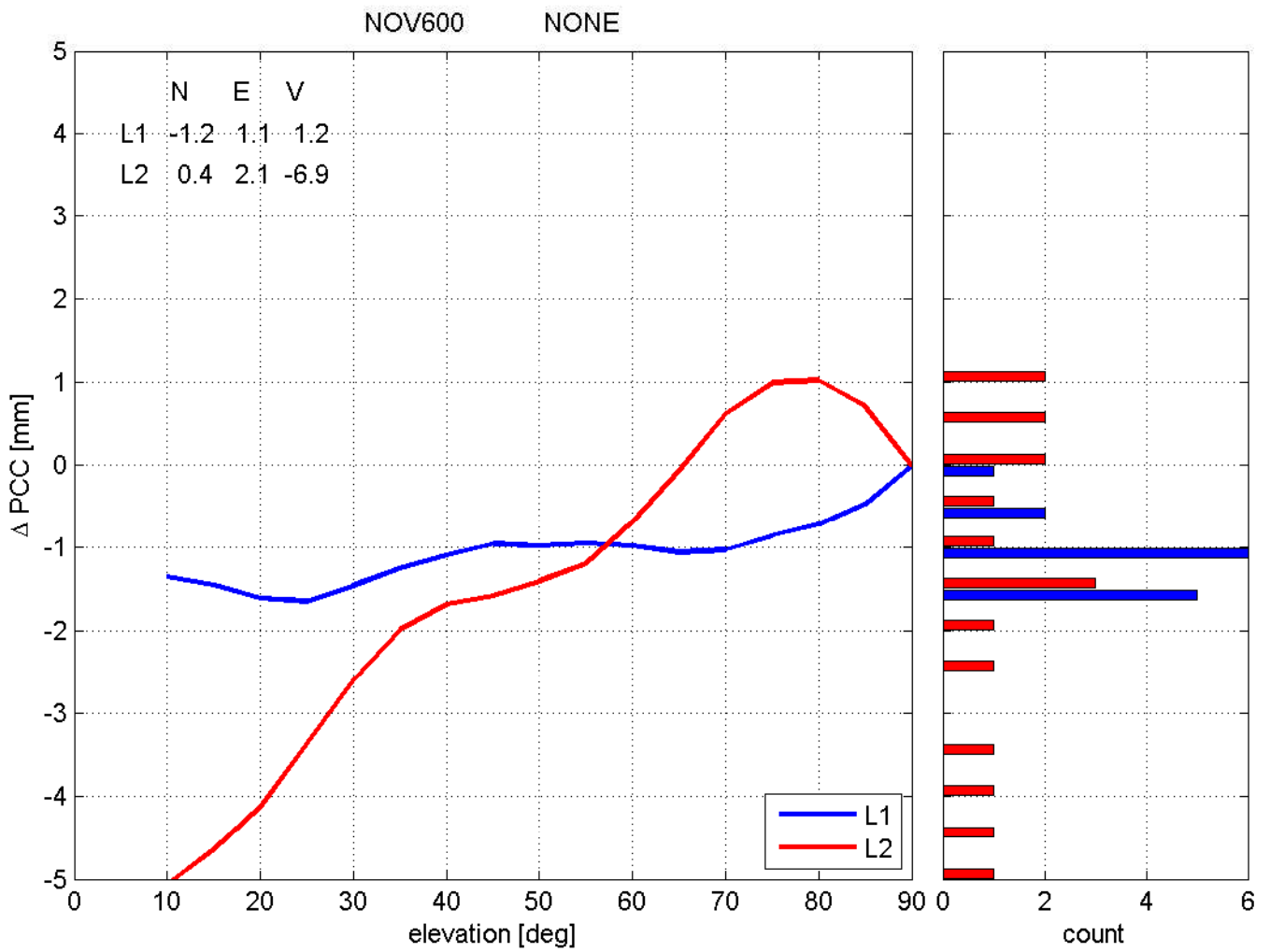
calib date:
22-Aug-2000

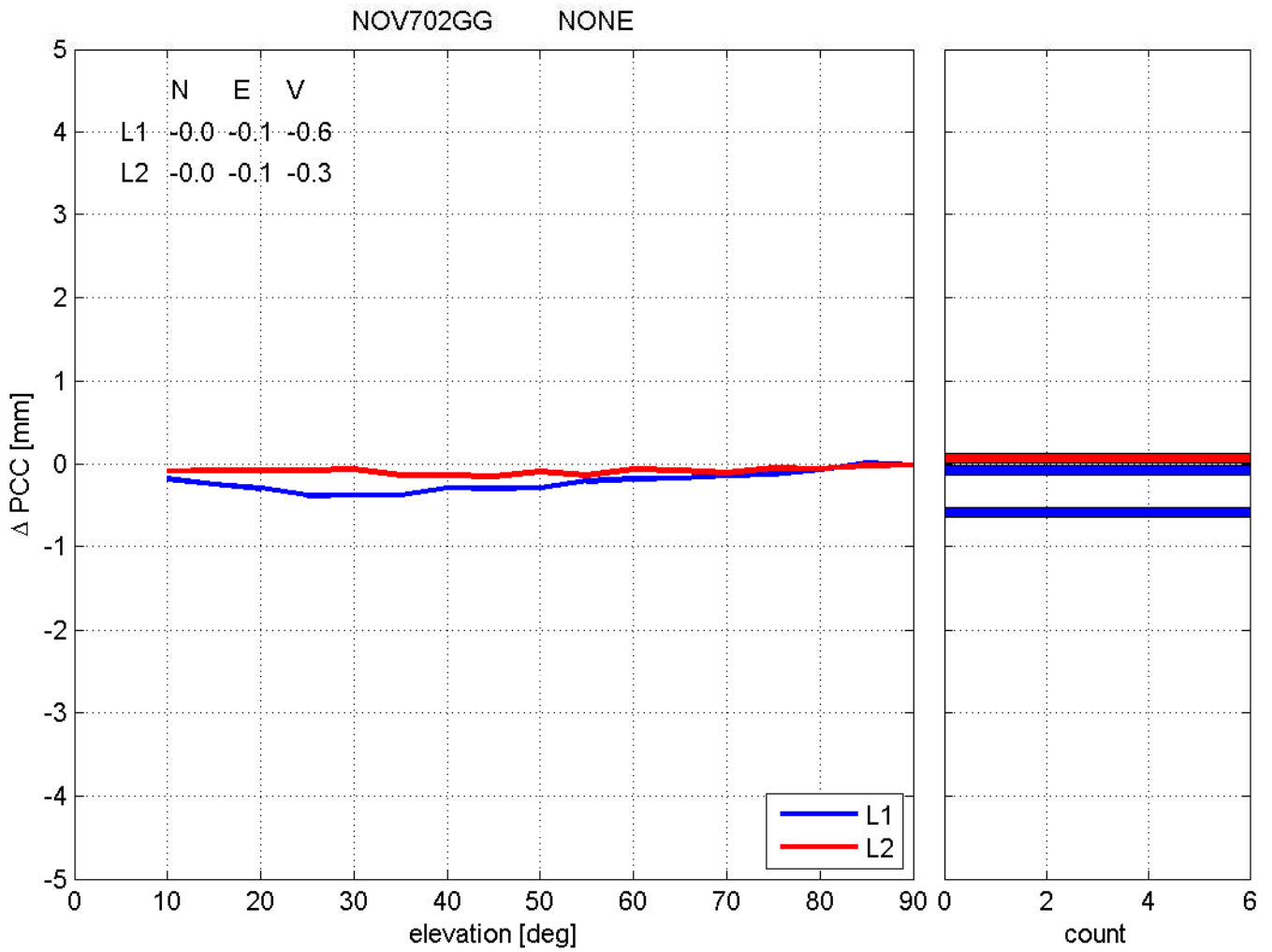
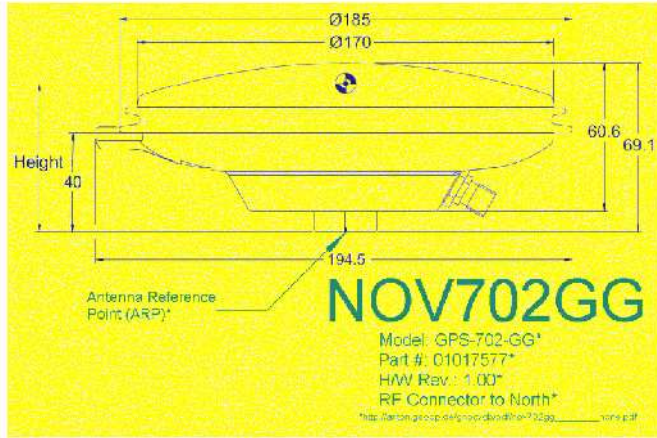
chokering (CR)



calib date:
13-Mar-2001

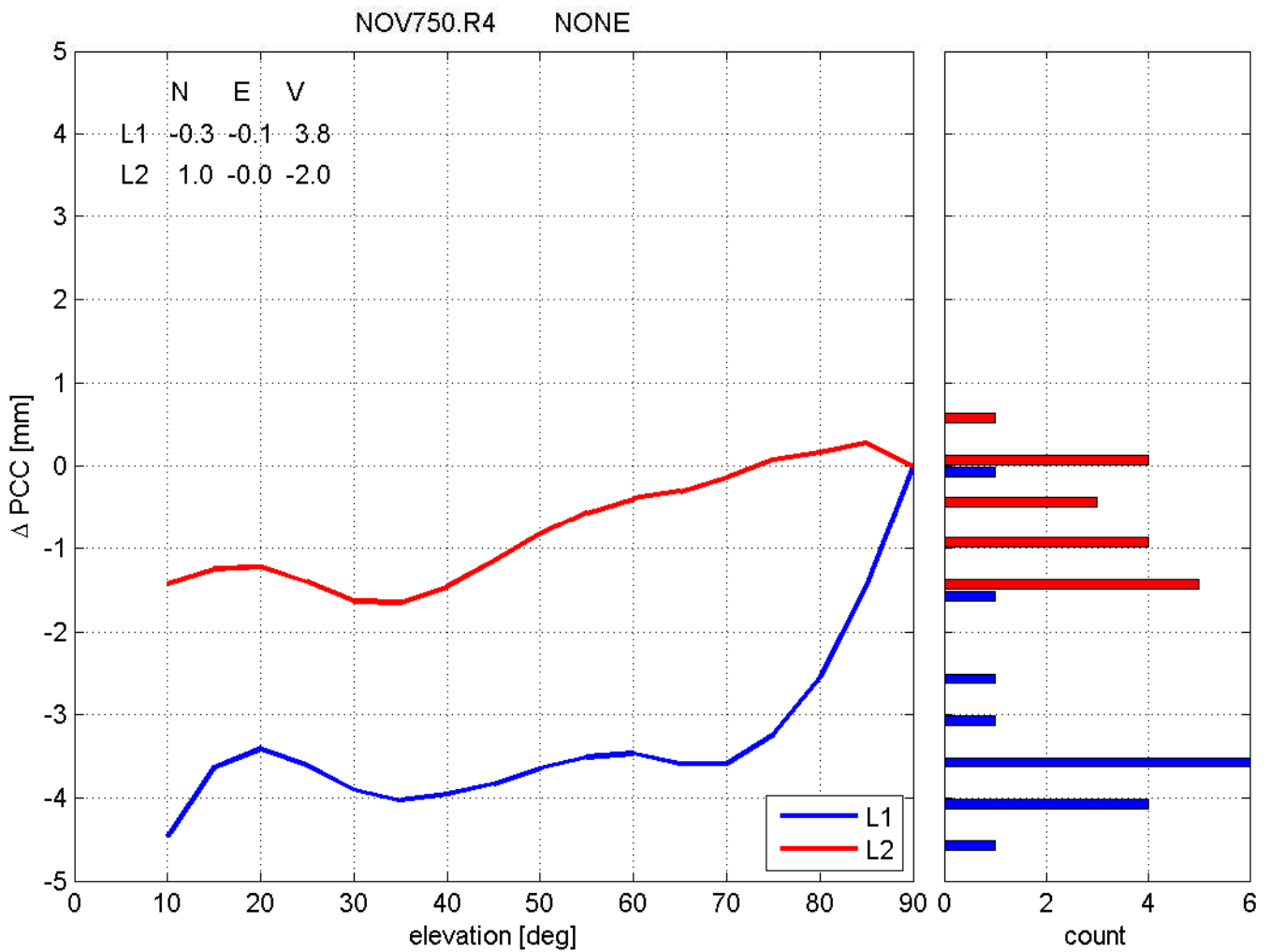
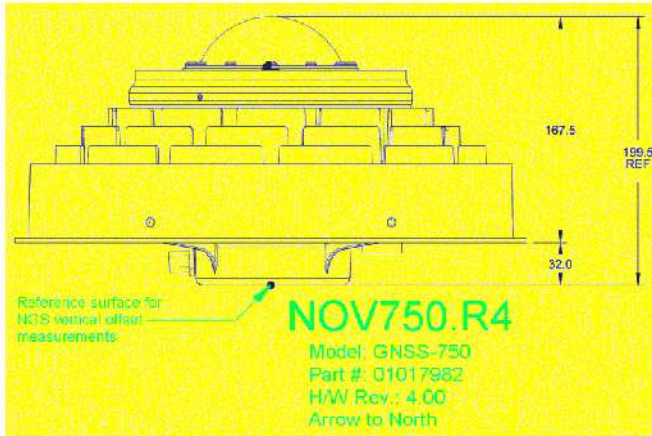
rover antenna (no
rx)





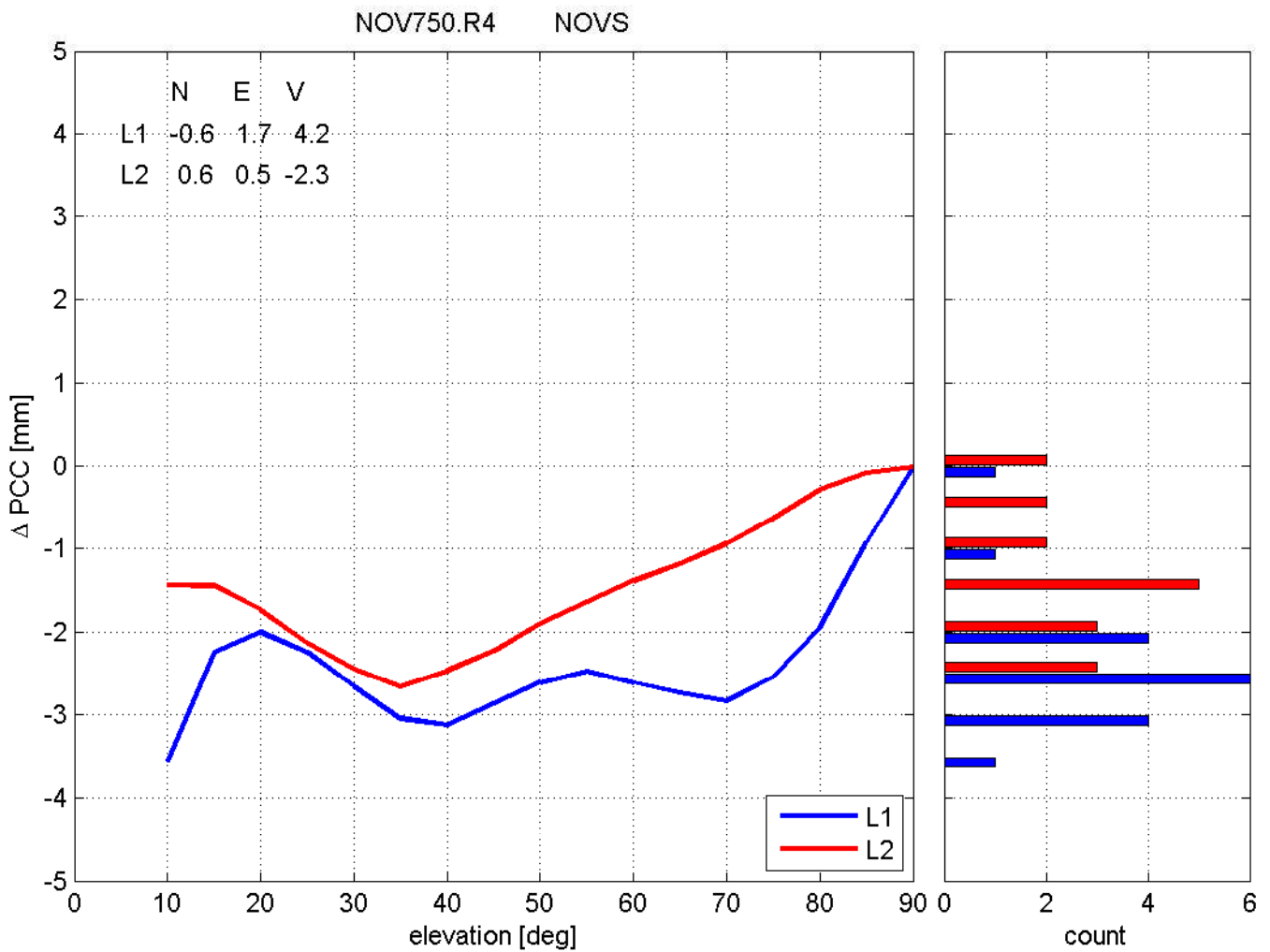
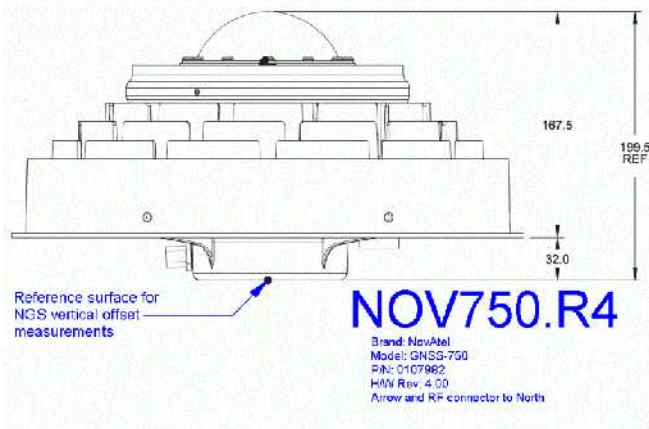
calib date:
10-Nov-2010

non-standard
choking



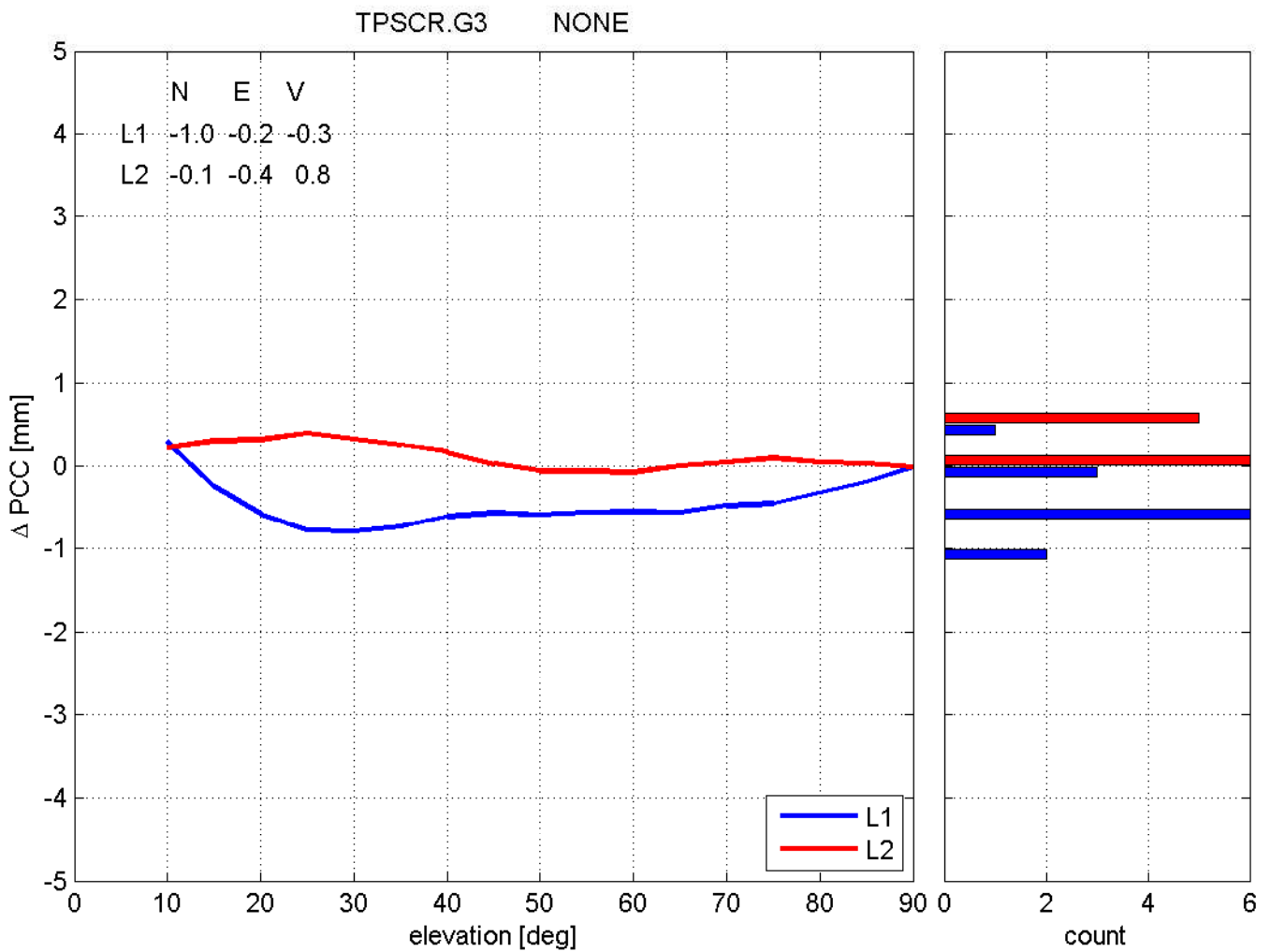
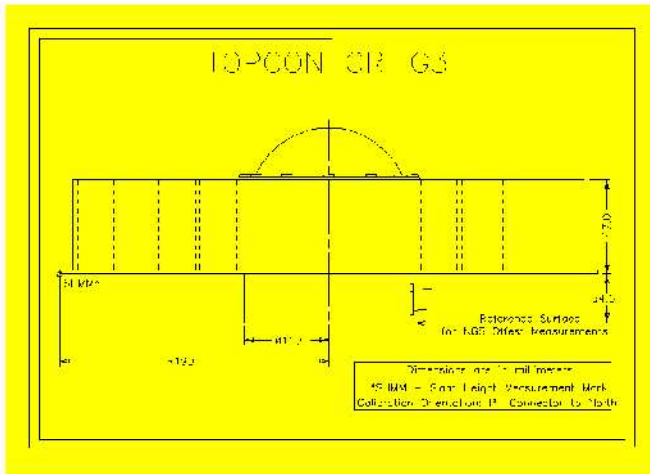
calib date:
06-Mar-2011

non-standard
choking



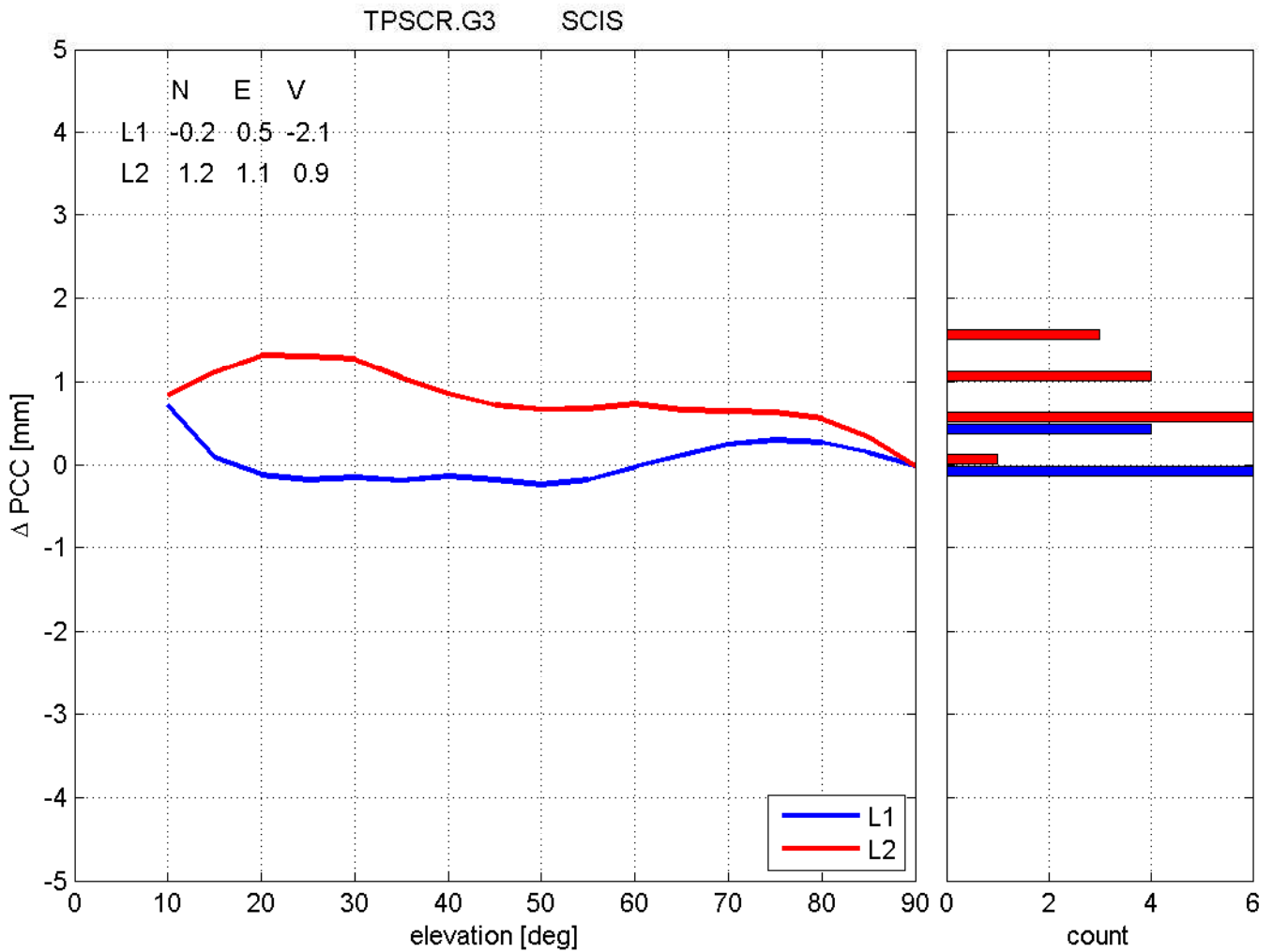
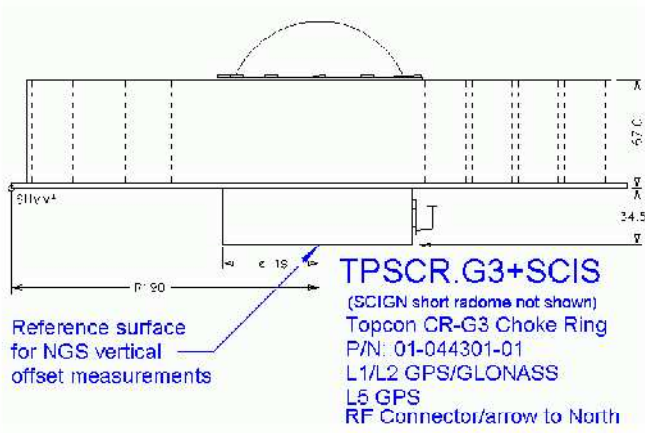
calib date:
07-Jun-2006

chokering (CR)



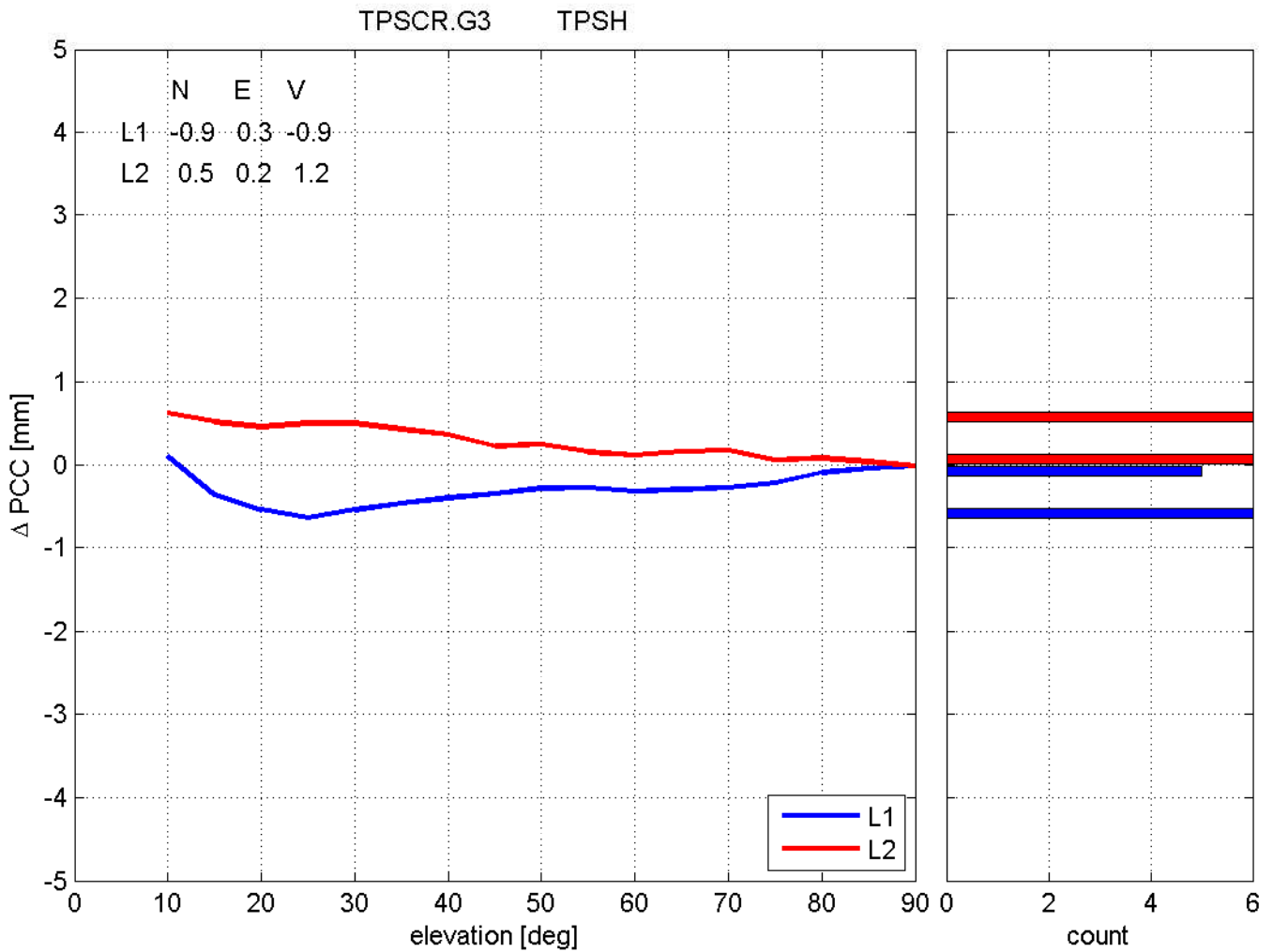
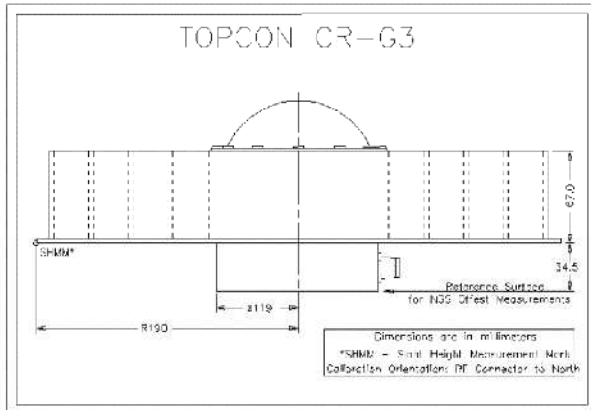
calib date:
30-Nov-2010

chokering (CR)



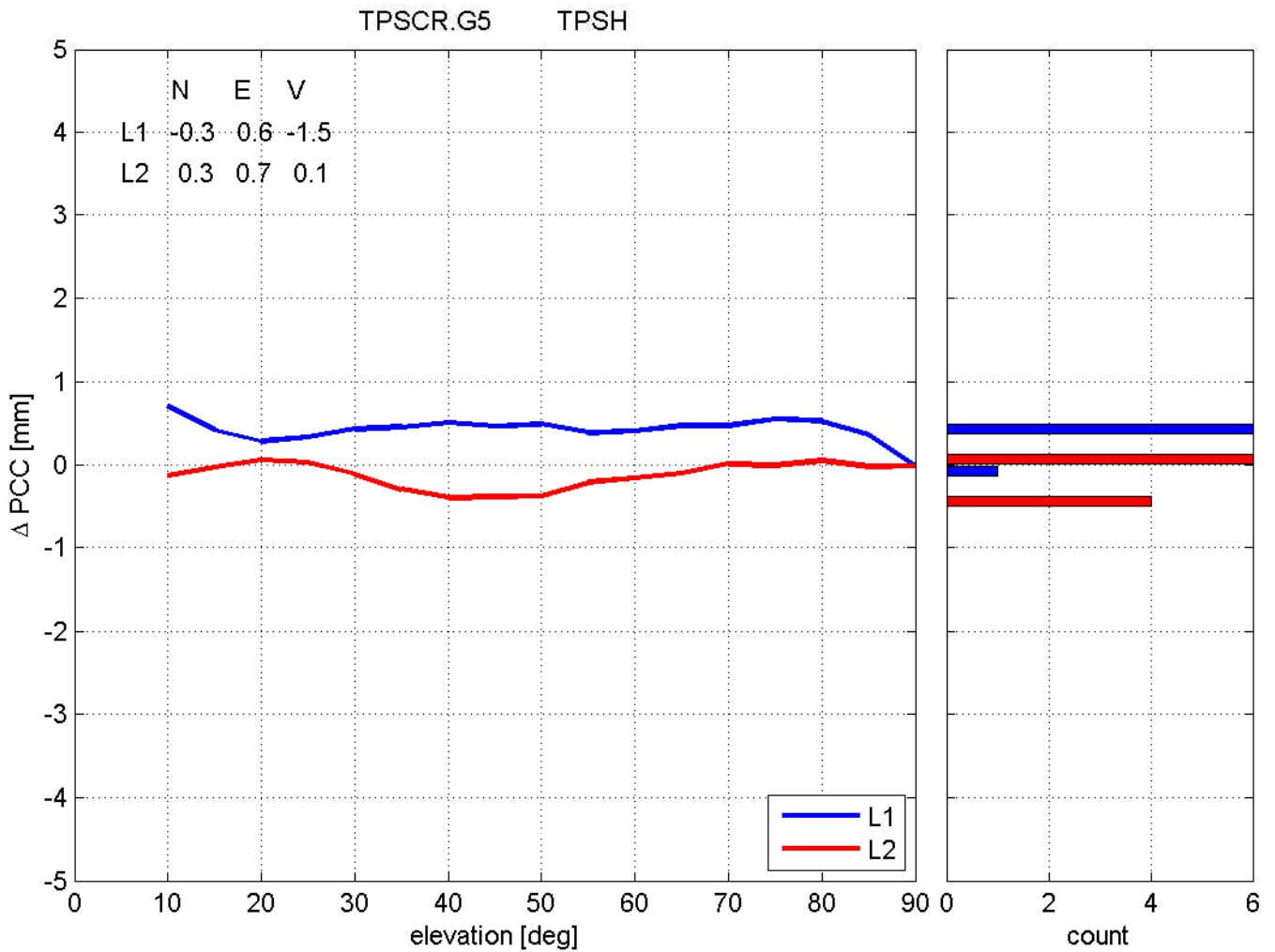
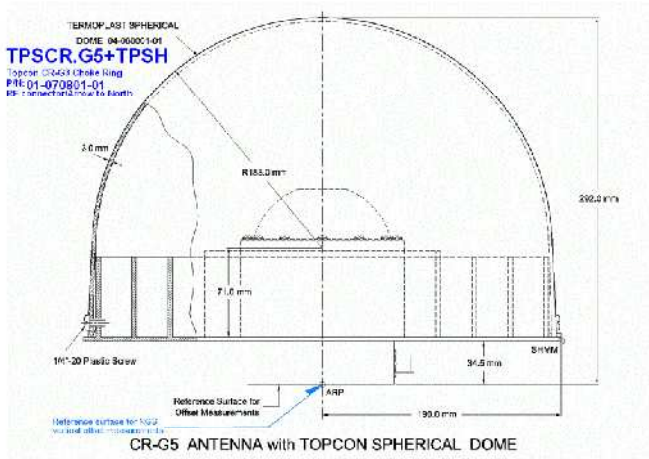
calib date:
24-Feb-2007

chokering (CR)



calib date:
09-Jun-2011

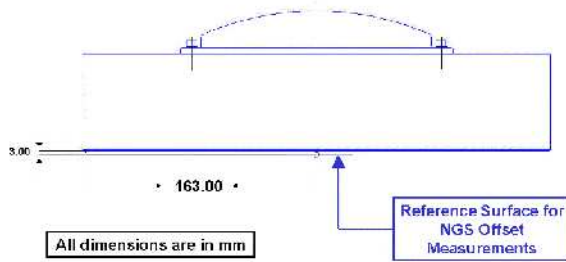
chokering (CR)



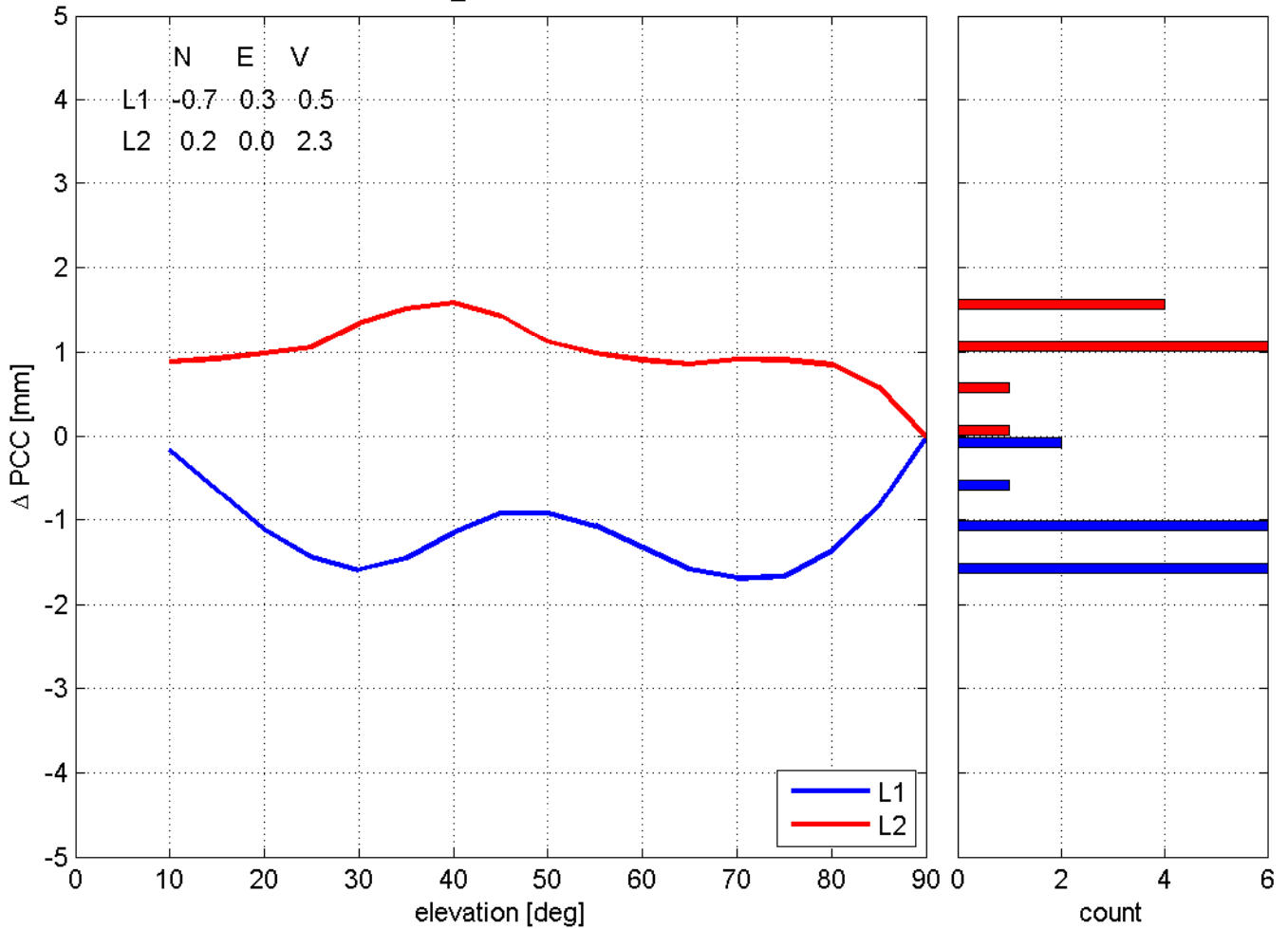
calib date:
11-Mar-2002

chokering (CR)

TOPCON CR3 GGD

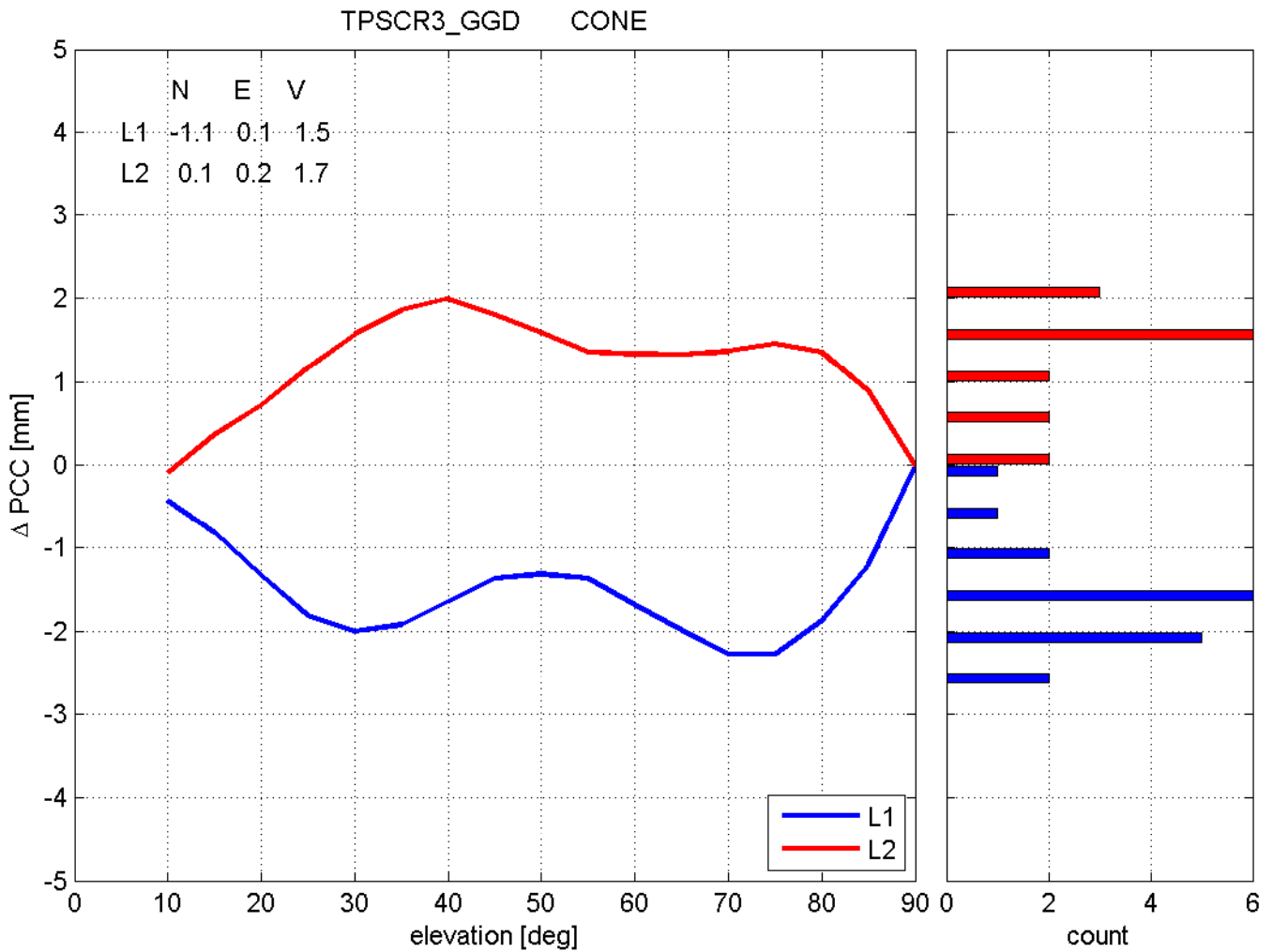
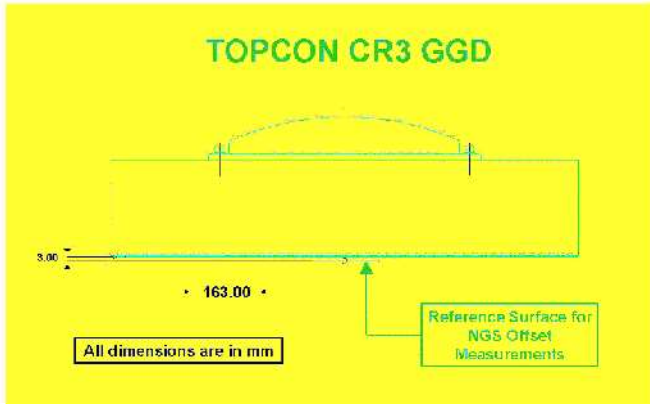


TPSCR3_GGD NONE



calib date:
11-Mar-2002

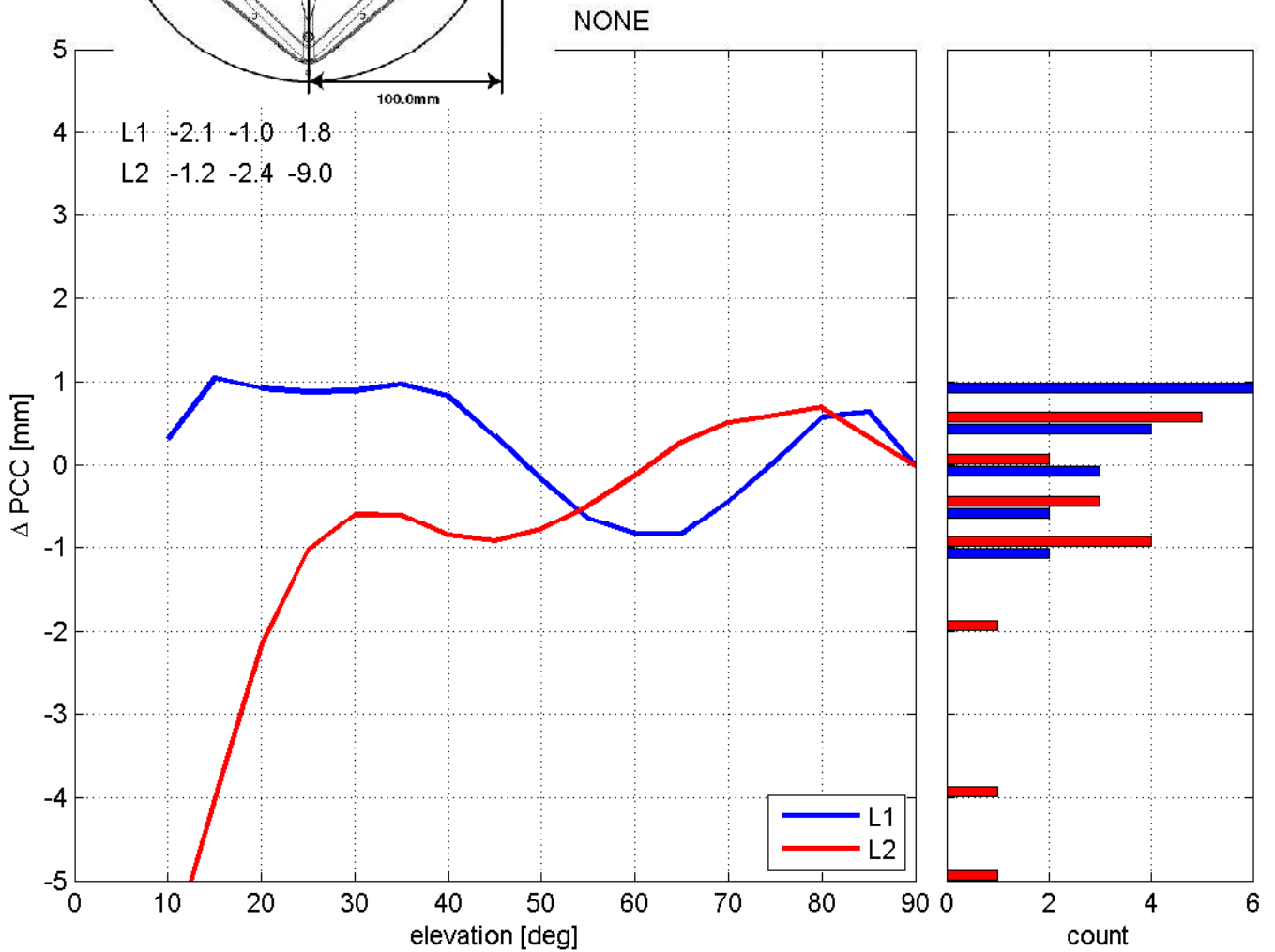
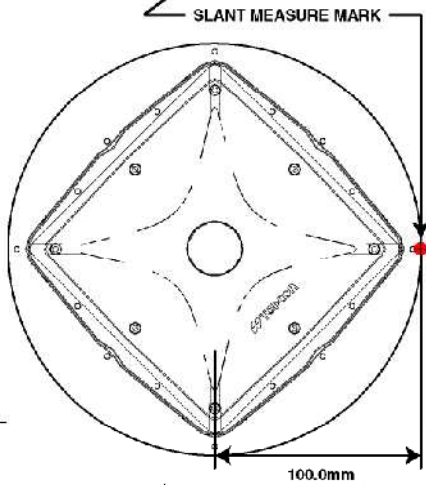
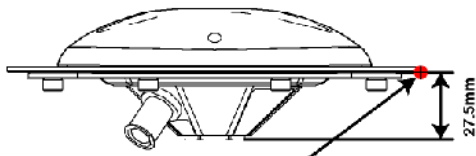
chokering (CR)



calib date:
14-Jul-2004

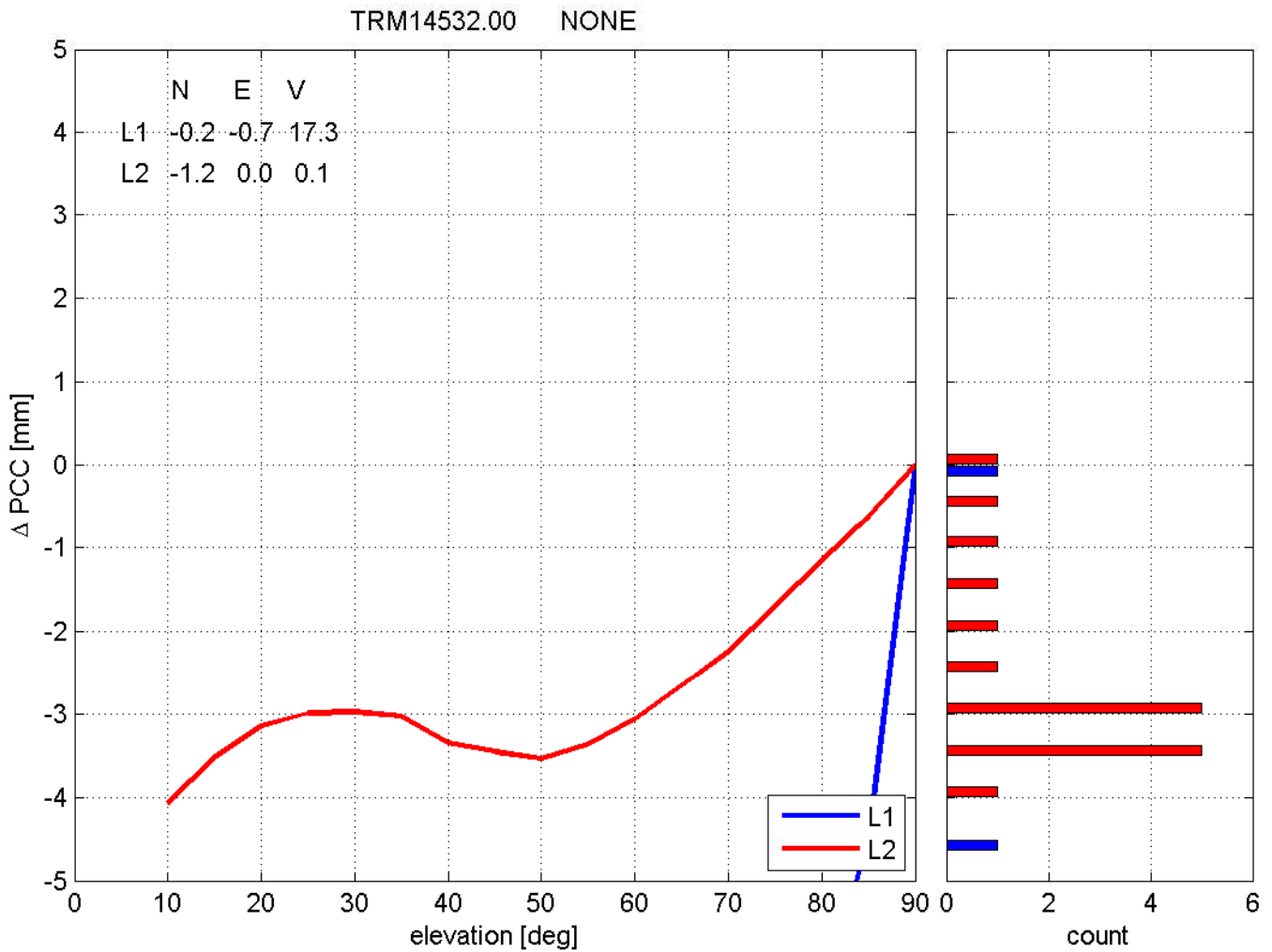
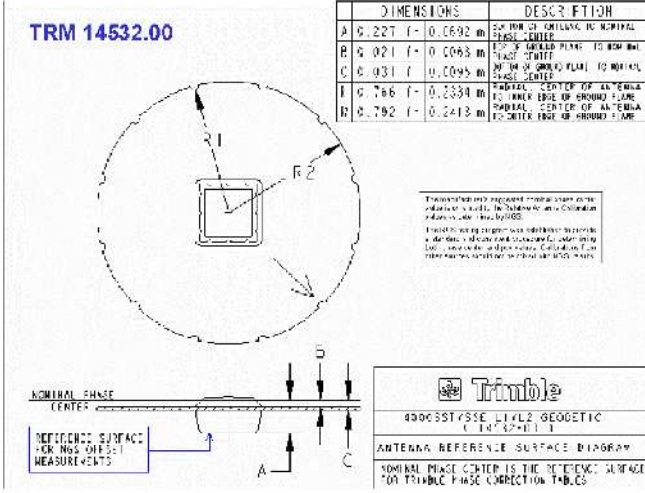
patch with
groundplane
(±GP)

**Topcon PG-A1
with Ground Plane**



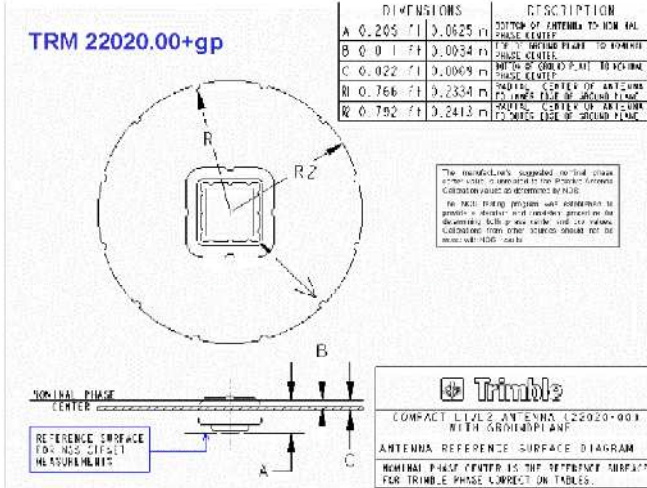
calib date:
27-Oct-1997

patch with
groundplane
(±GP)

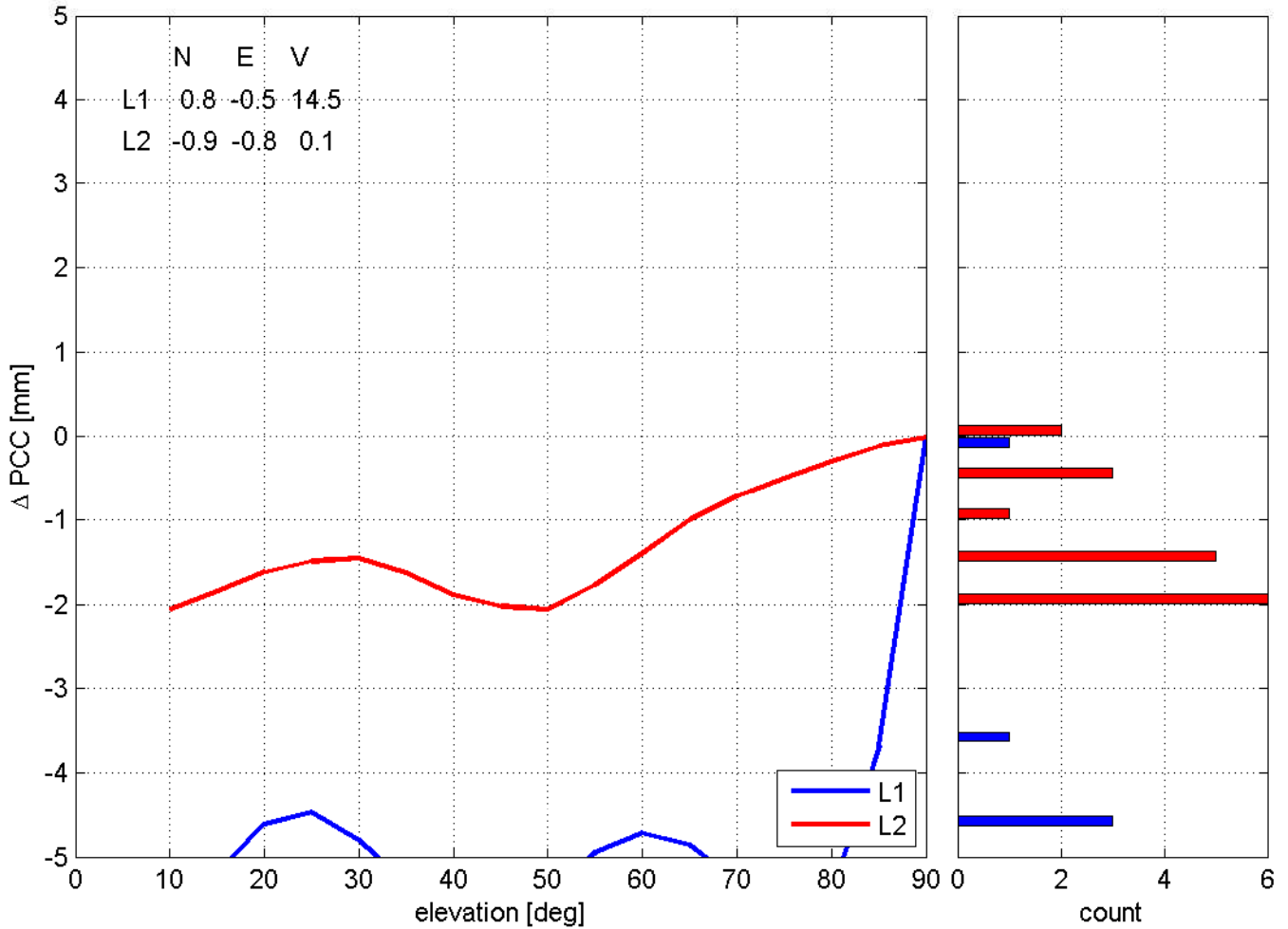


calib date:
27-Oct-1997

patch with
groundplane
(±GP)

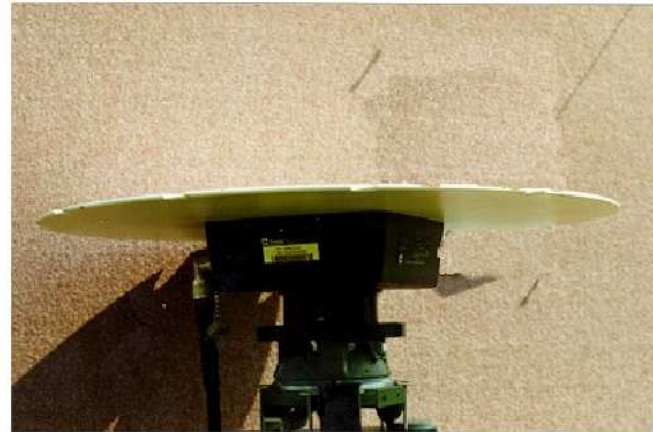
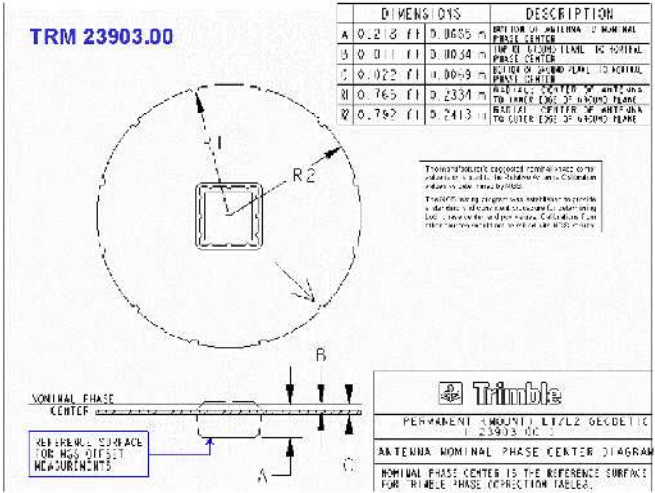


TRM22020.00+GP NONE

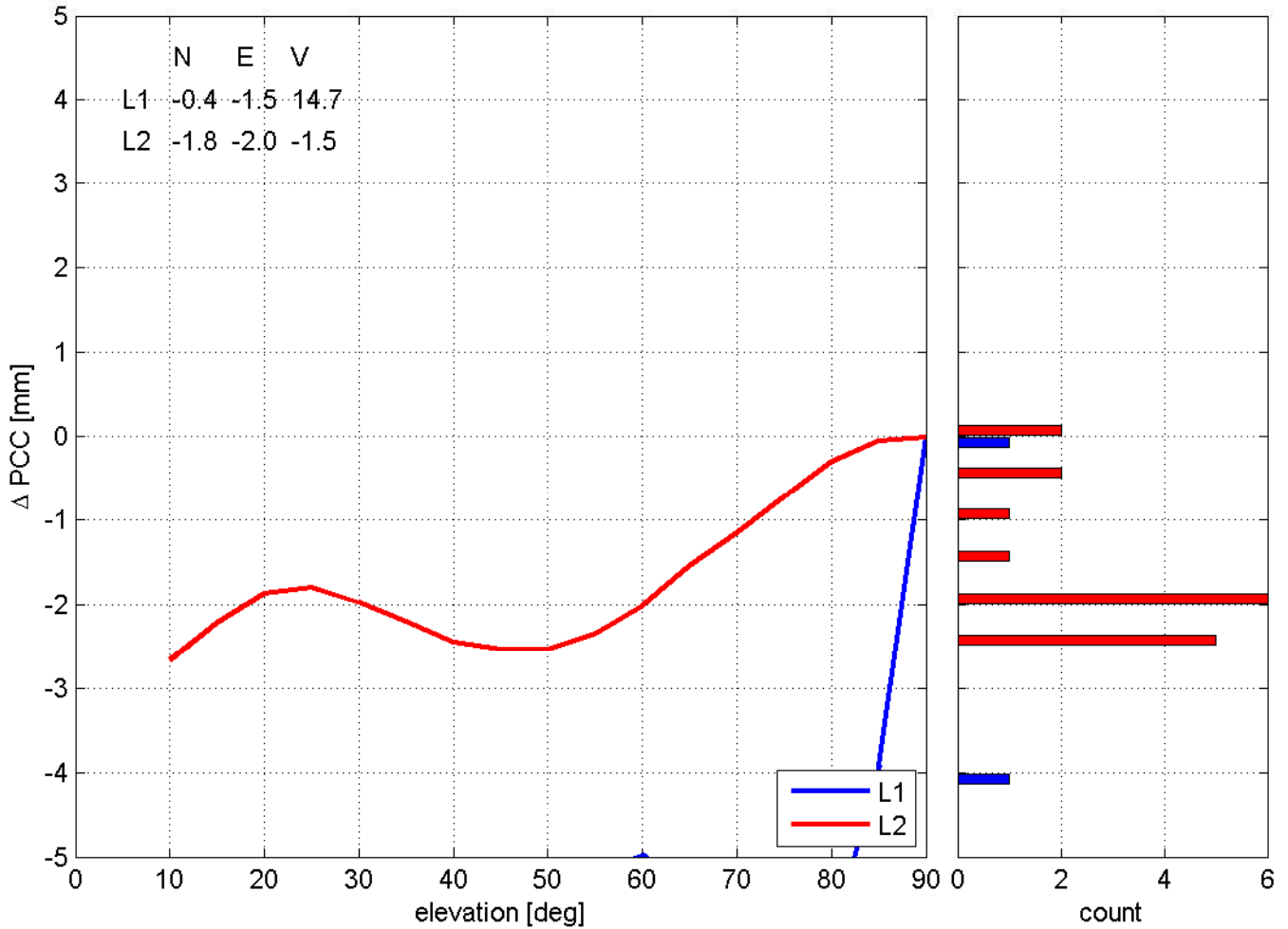


calib date:
27-Oct-1997

patch with
groundplane
(±GP)

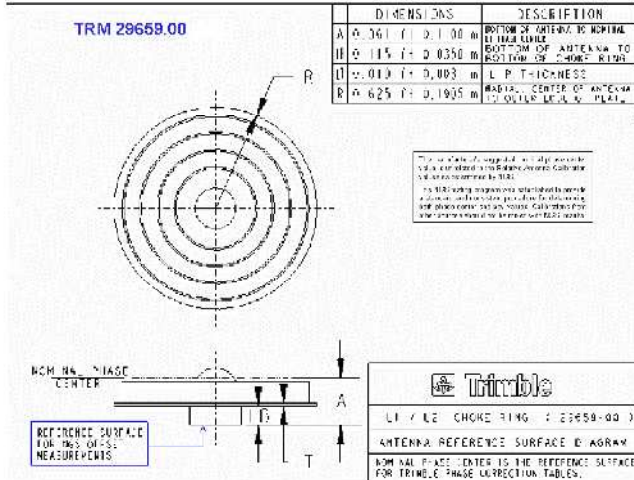


TRM23903.00 NONE

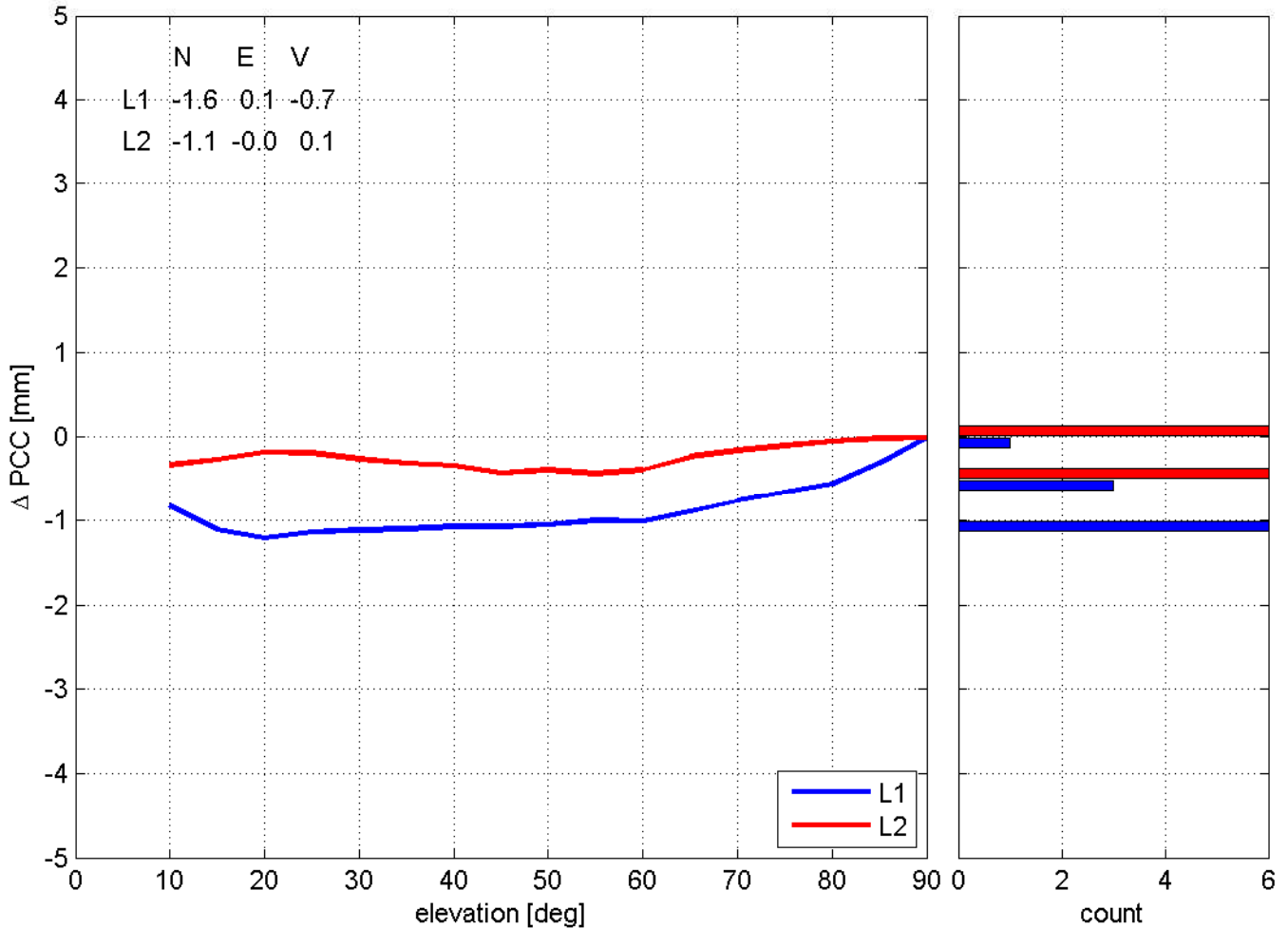


calib date:
27-Oct-1997

chokering (CR)

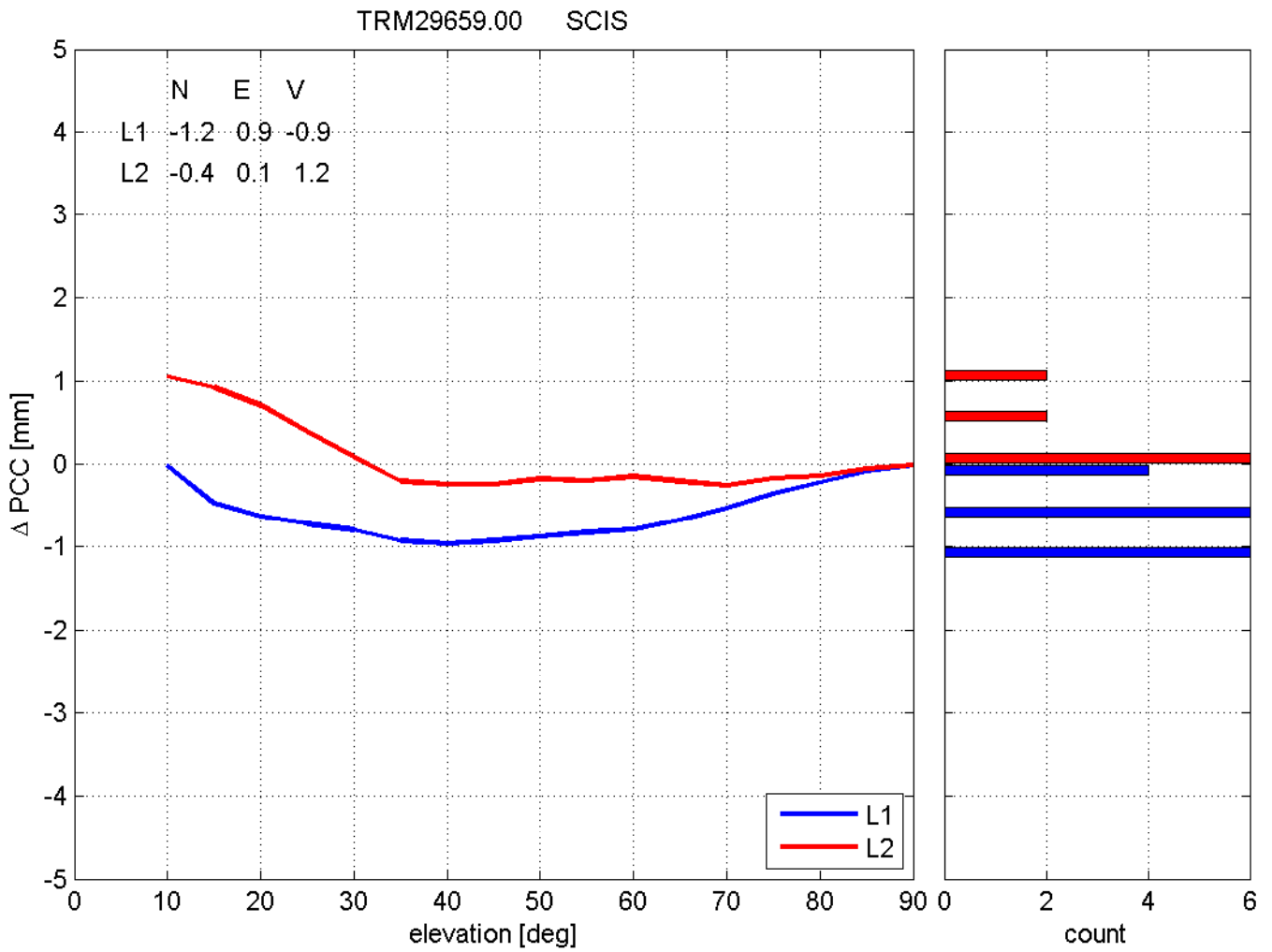


TRM29659.00 NONE



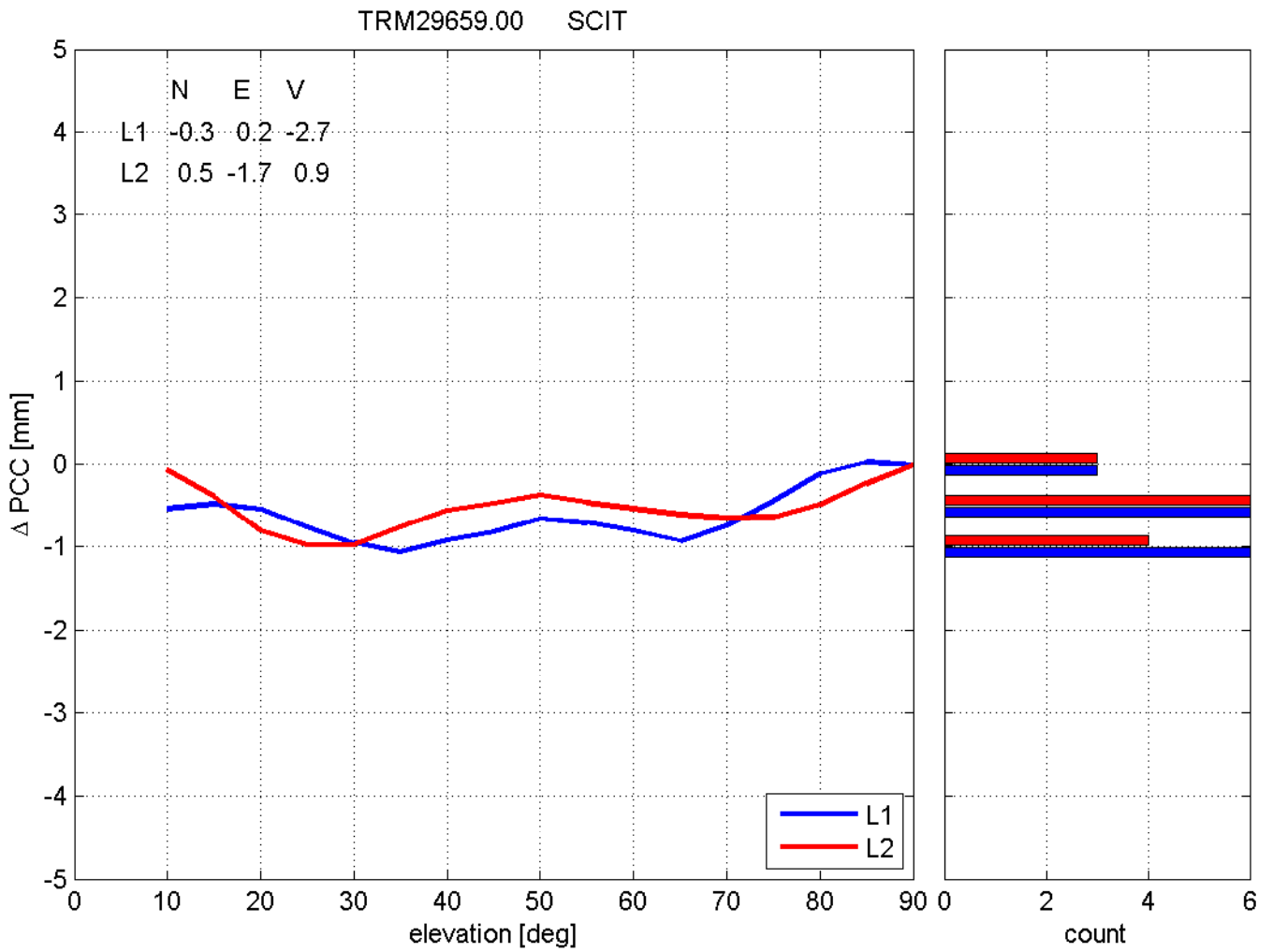
calib date:
17-Jun-2005

chokering (CR)



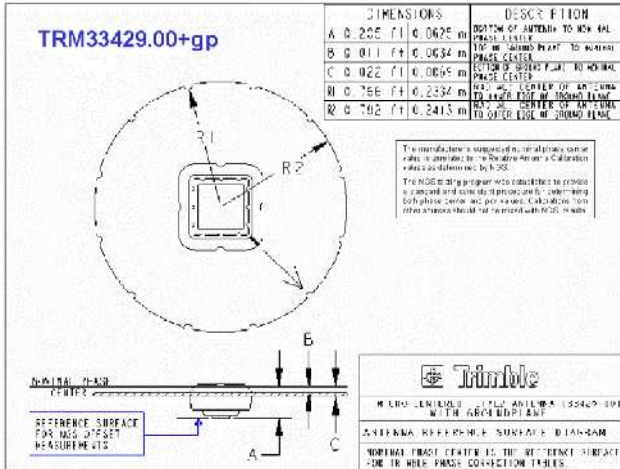
calib date:
10-Jun-2005

chokering (CR)

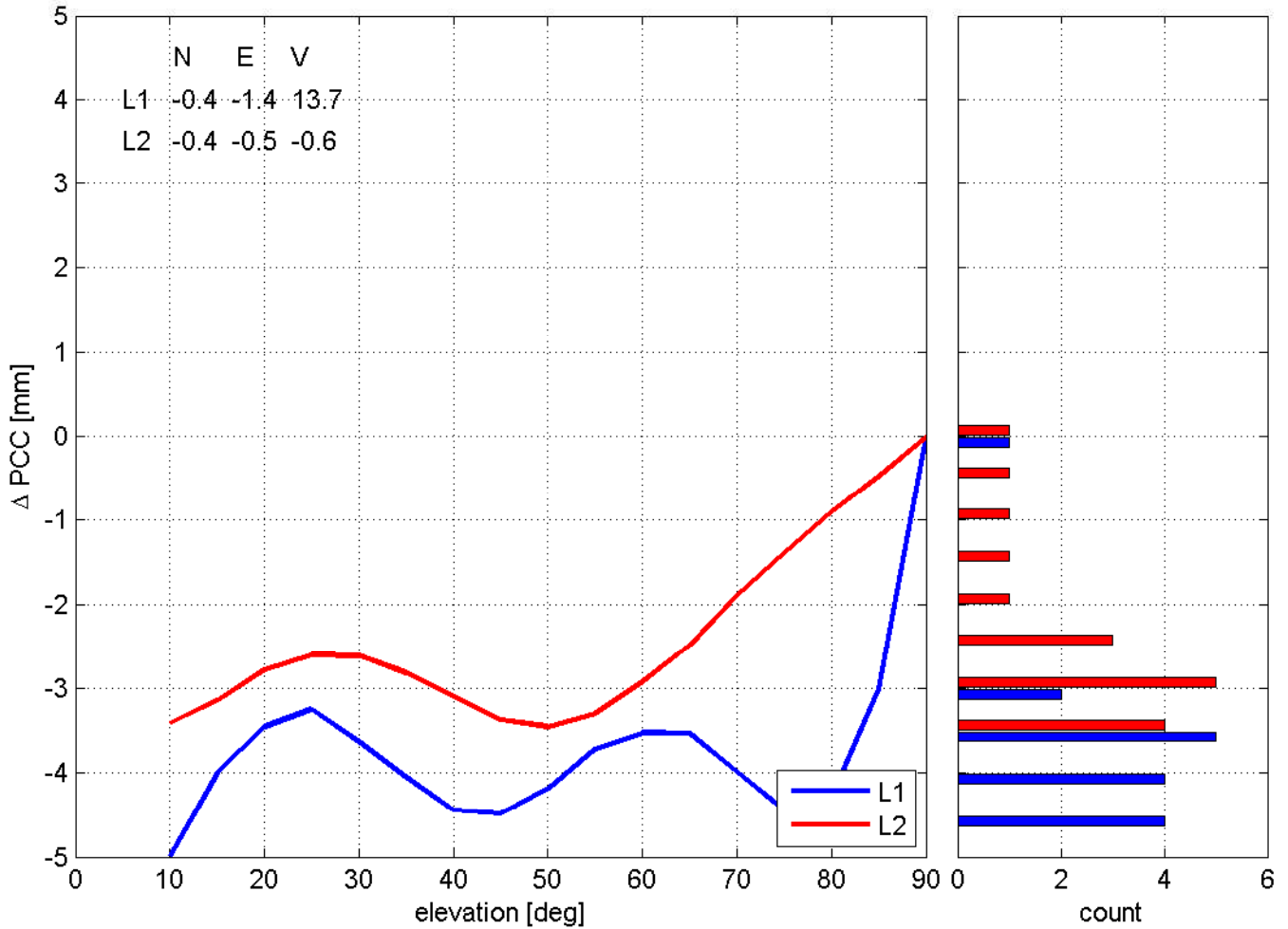


calib date:
27-Oct-1997

patch with
groundplane
(+GP)



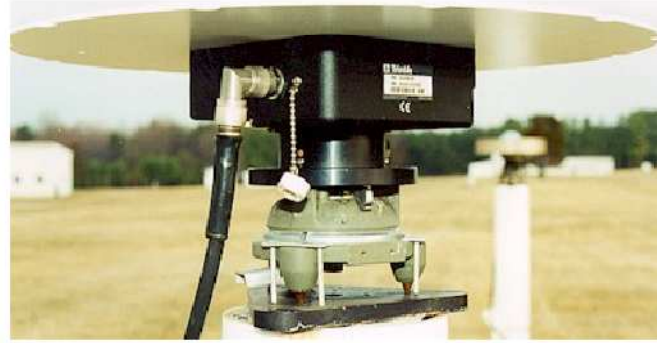
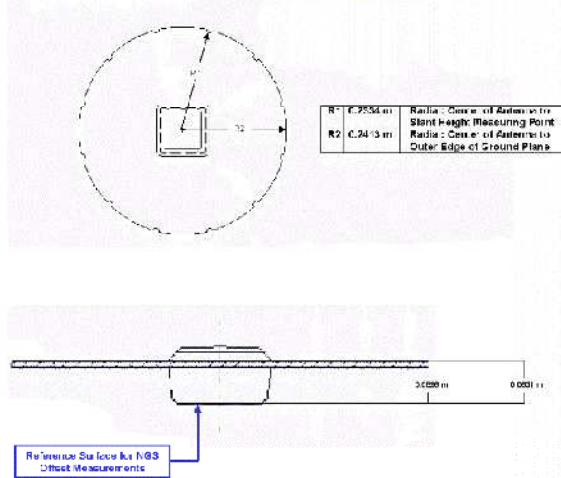
TRM33429.00+GP NONE



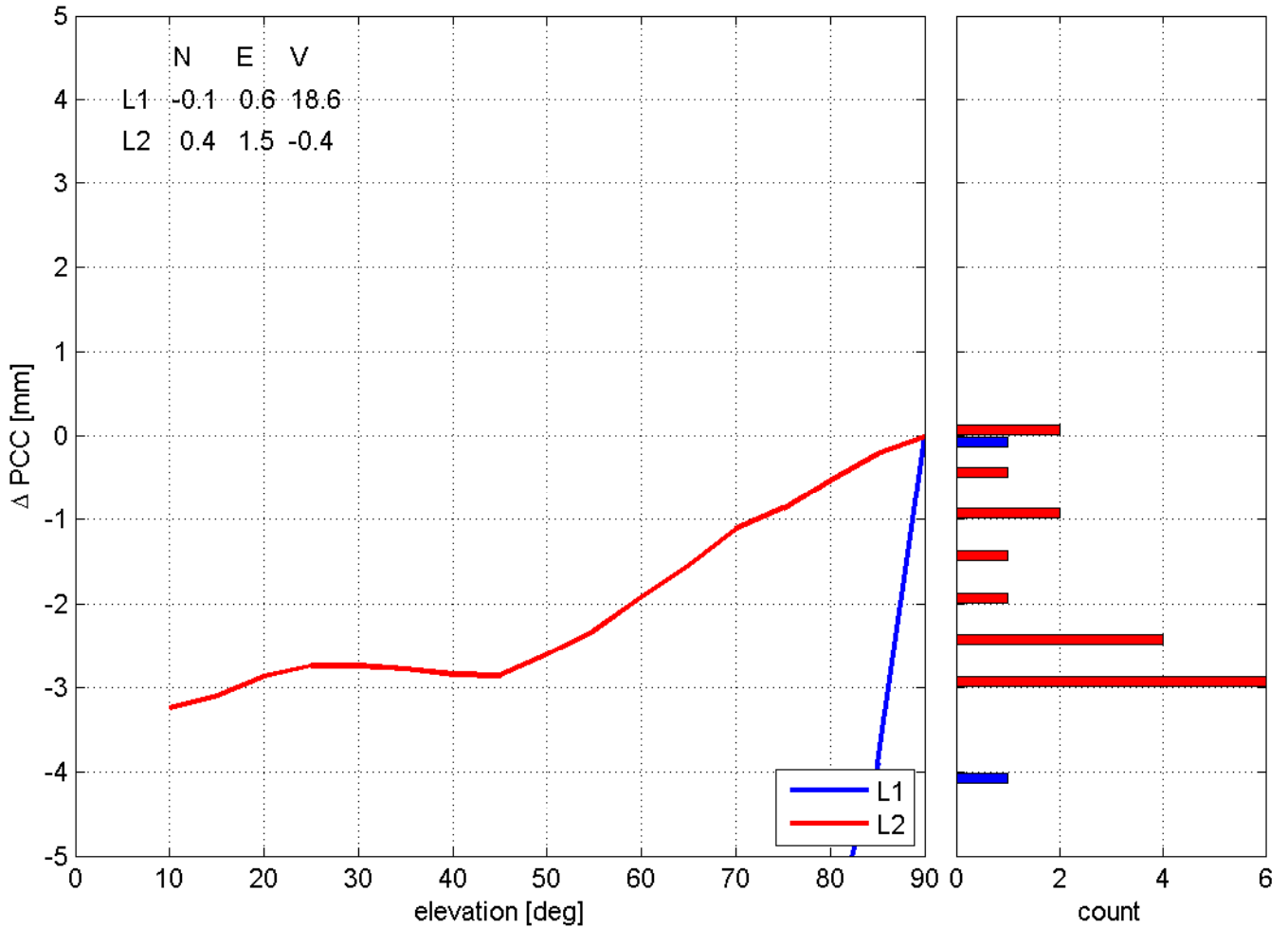
calib date:
29-Aug-2001

patch with
groundplane
(+GP)

TRM 33429.20+GP

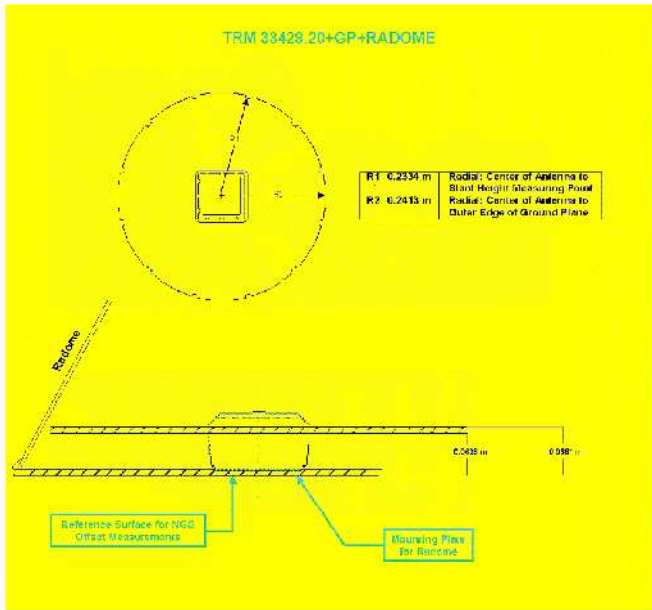


TRM33429.20+GP NONE

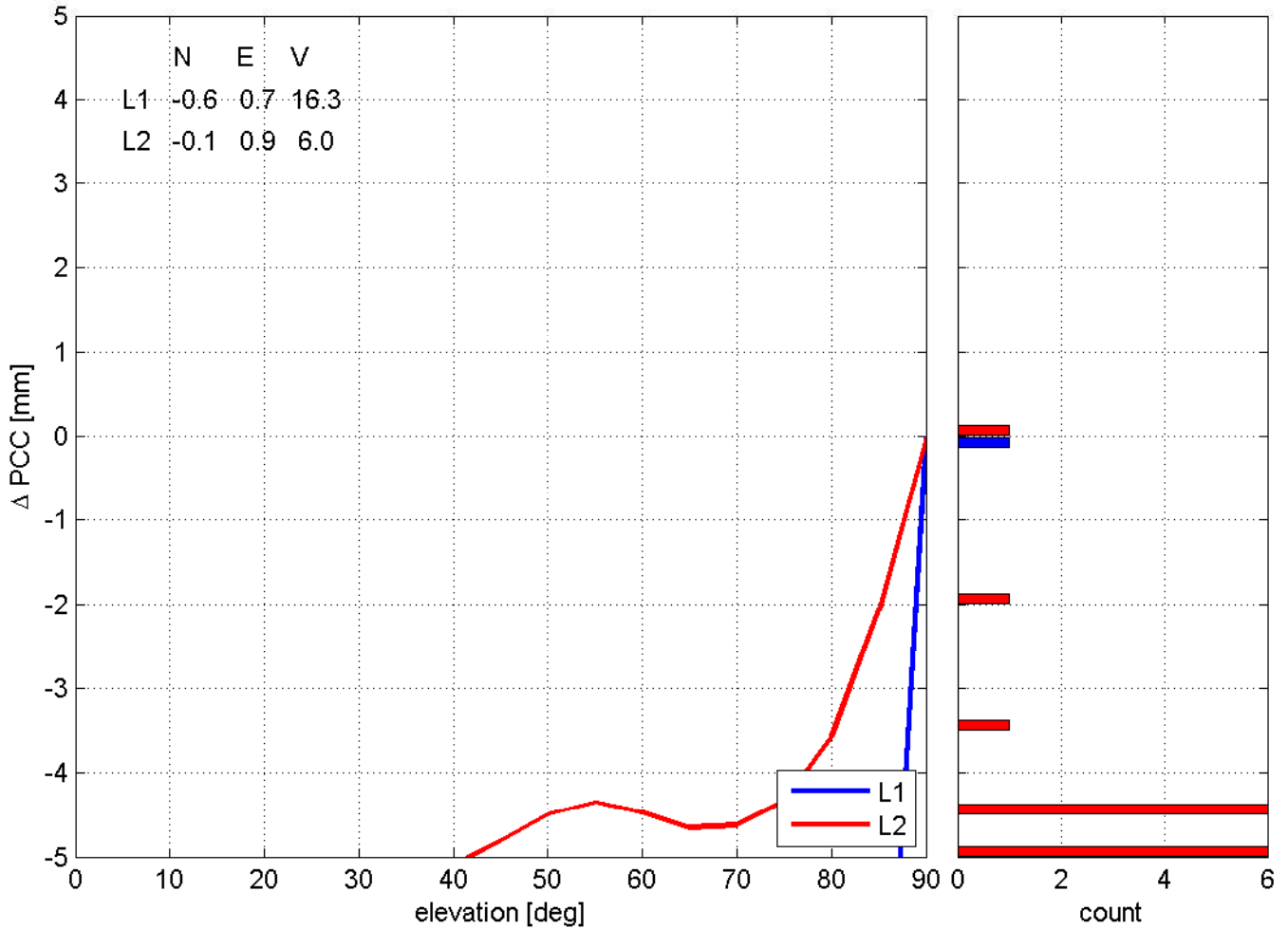


calib date:
05-Dec-2002

patch with
groundplane
(+GP)

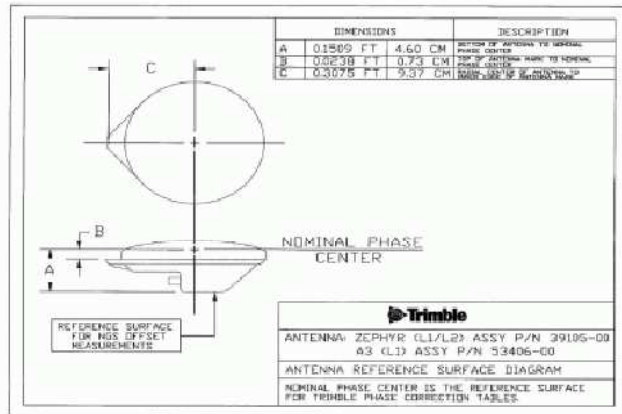


TRM33429.20+GP TCWD

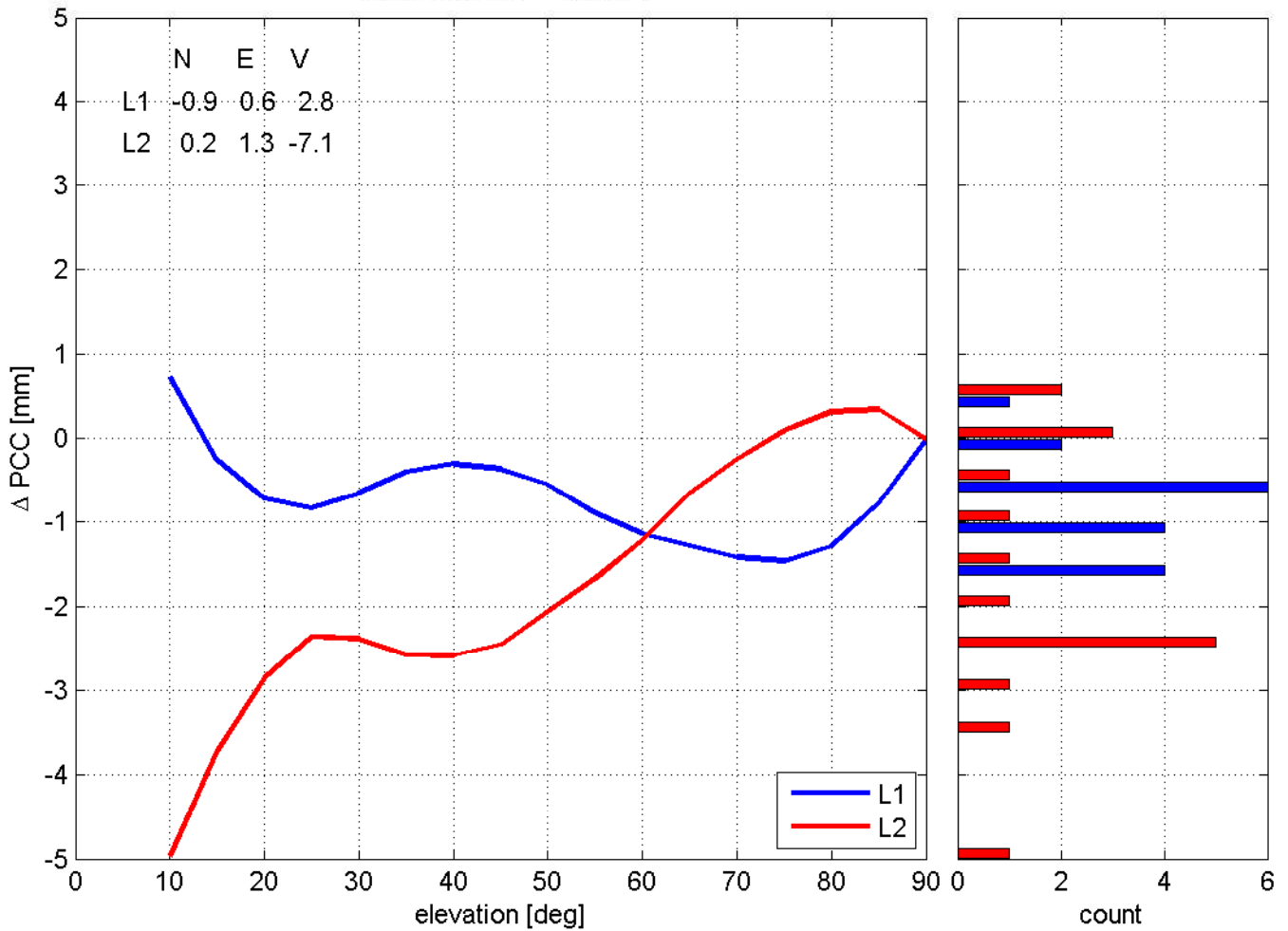


calib date:
11-Apr-2001

rover antenna (no
rx)



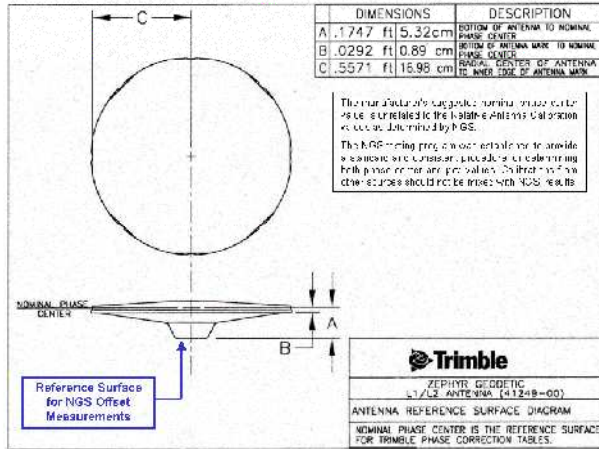
TRM39105.00 NONE



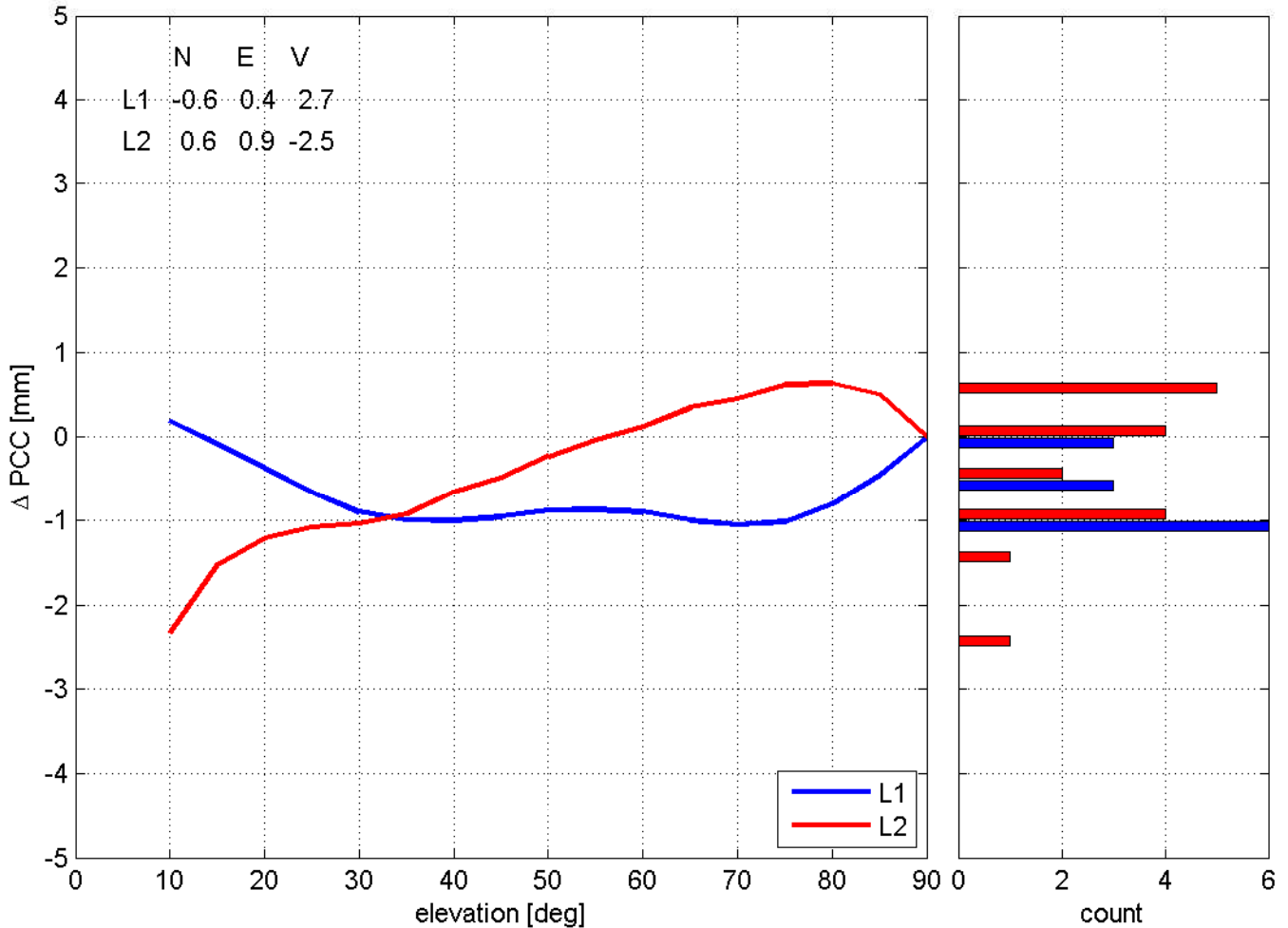
calib date:
11-Apr-2001

geodetic with
large groundplane

TRM 41249.00



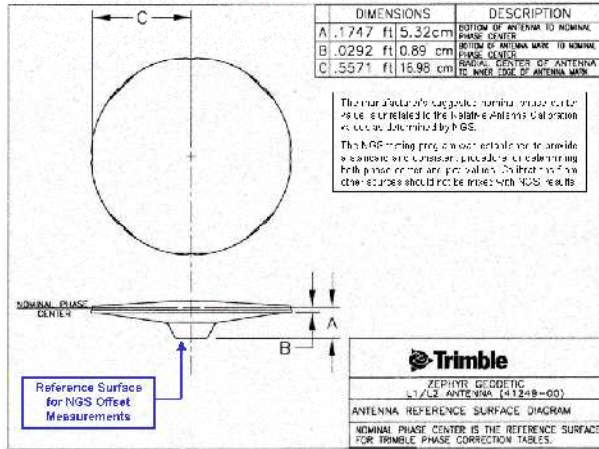
TRM41249.00 NONE



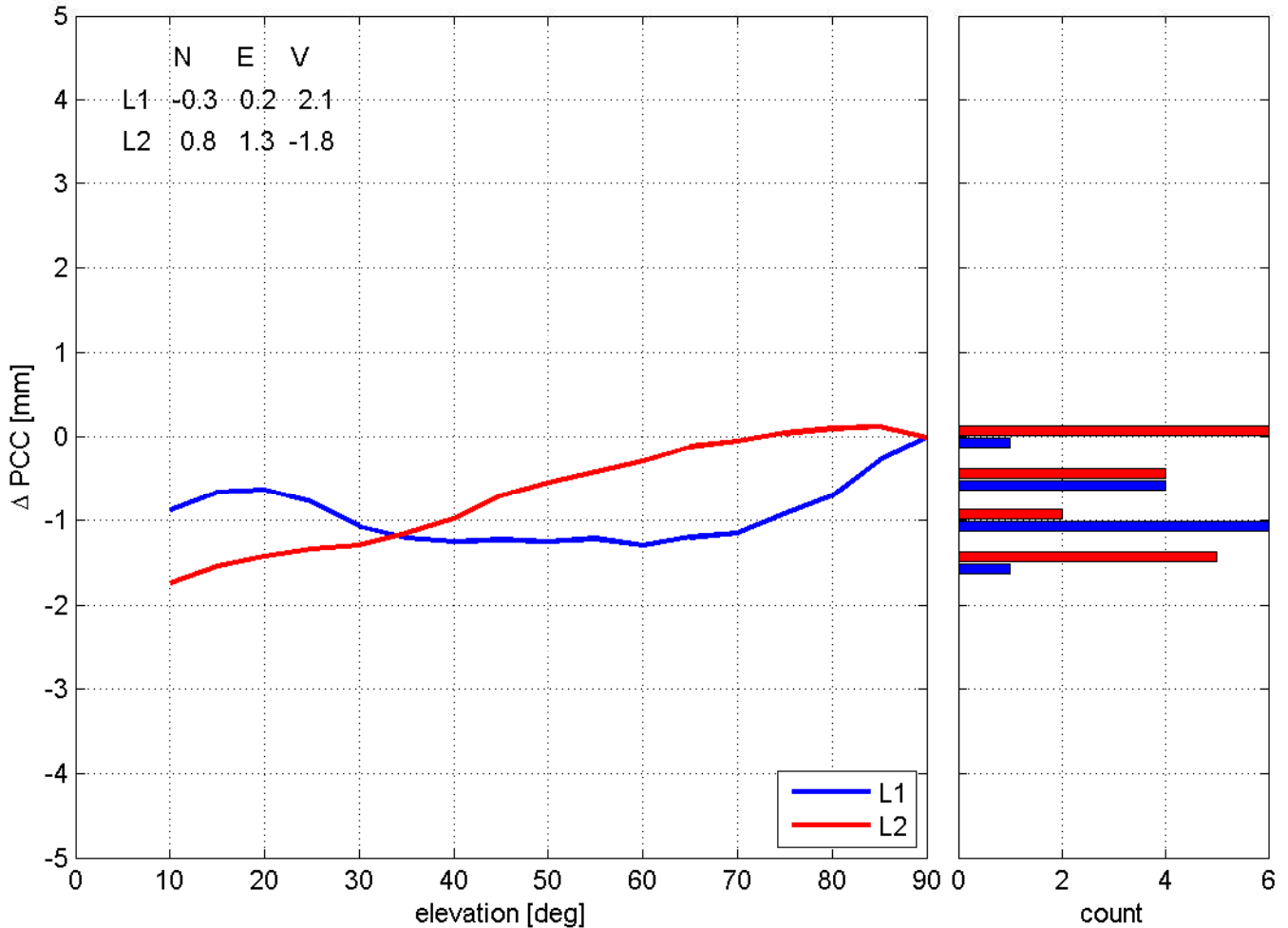
calib date:
16-Jan-2003

geodetic with
large groundplane

TRM 41249.00

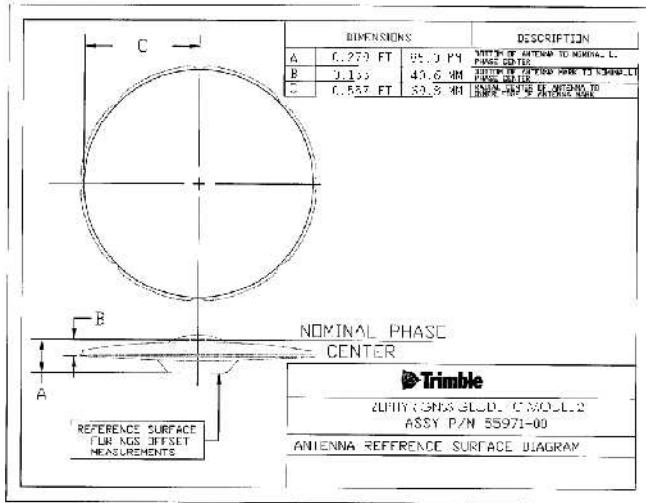


TRM41249.00 TZGD

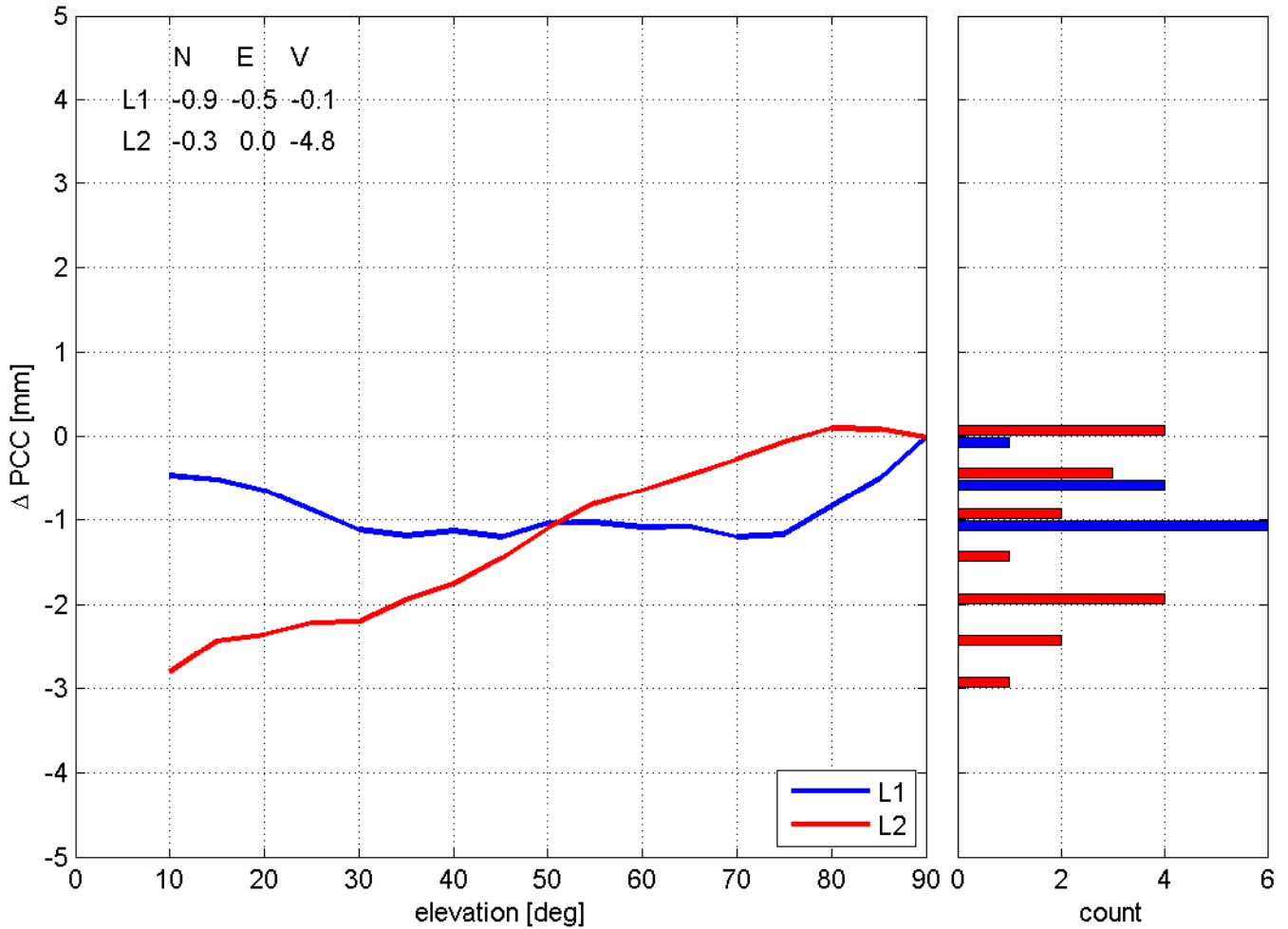


calib date:
12-Jun-2006

geodetic with
large groundplane

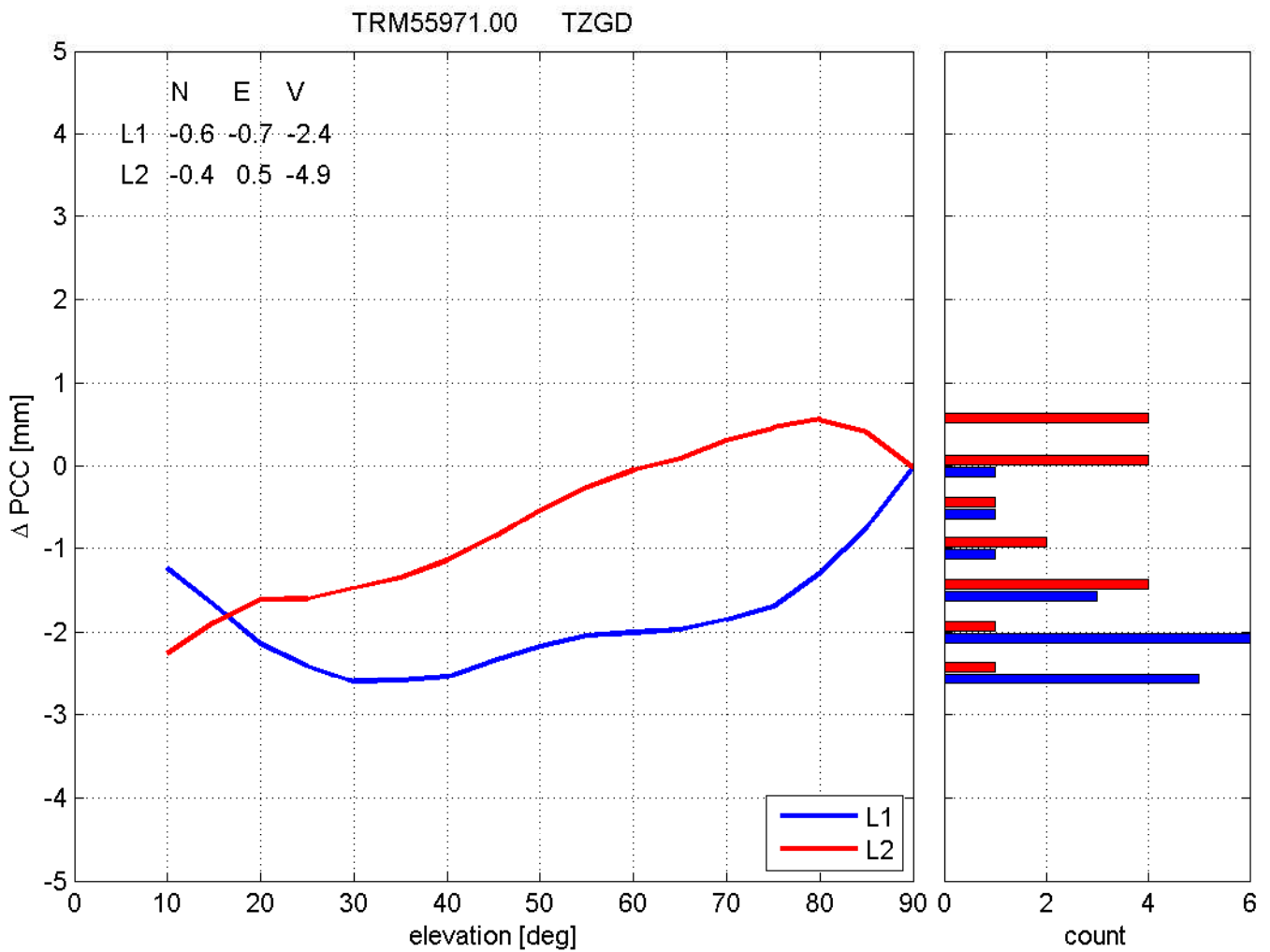


TRM55971.00 NONE



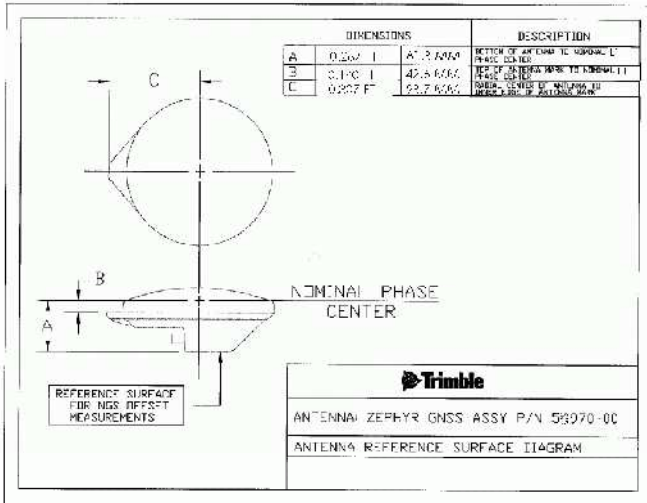
calib date:
14-Jul-2006

geodetic with
large groundplane

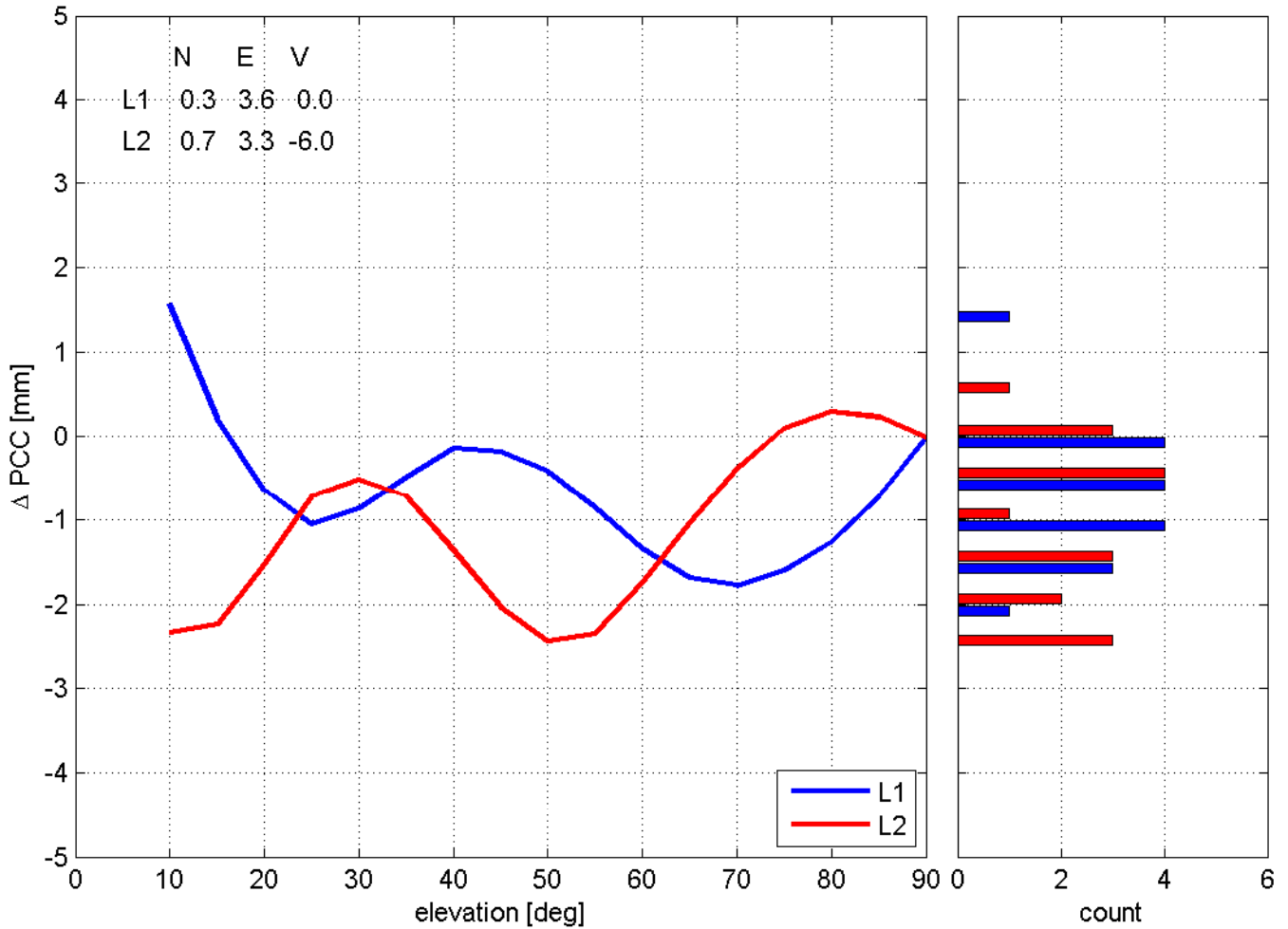


calib date:
31-Mar-2006

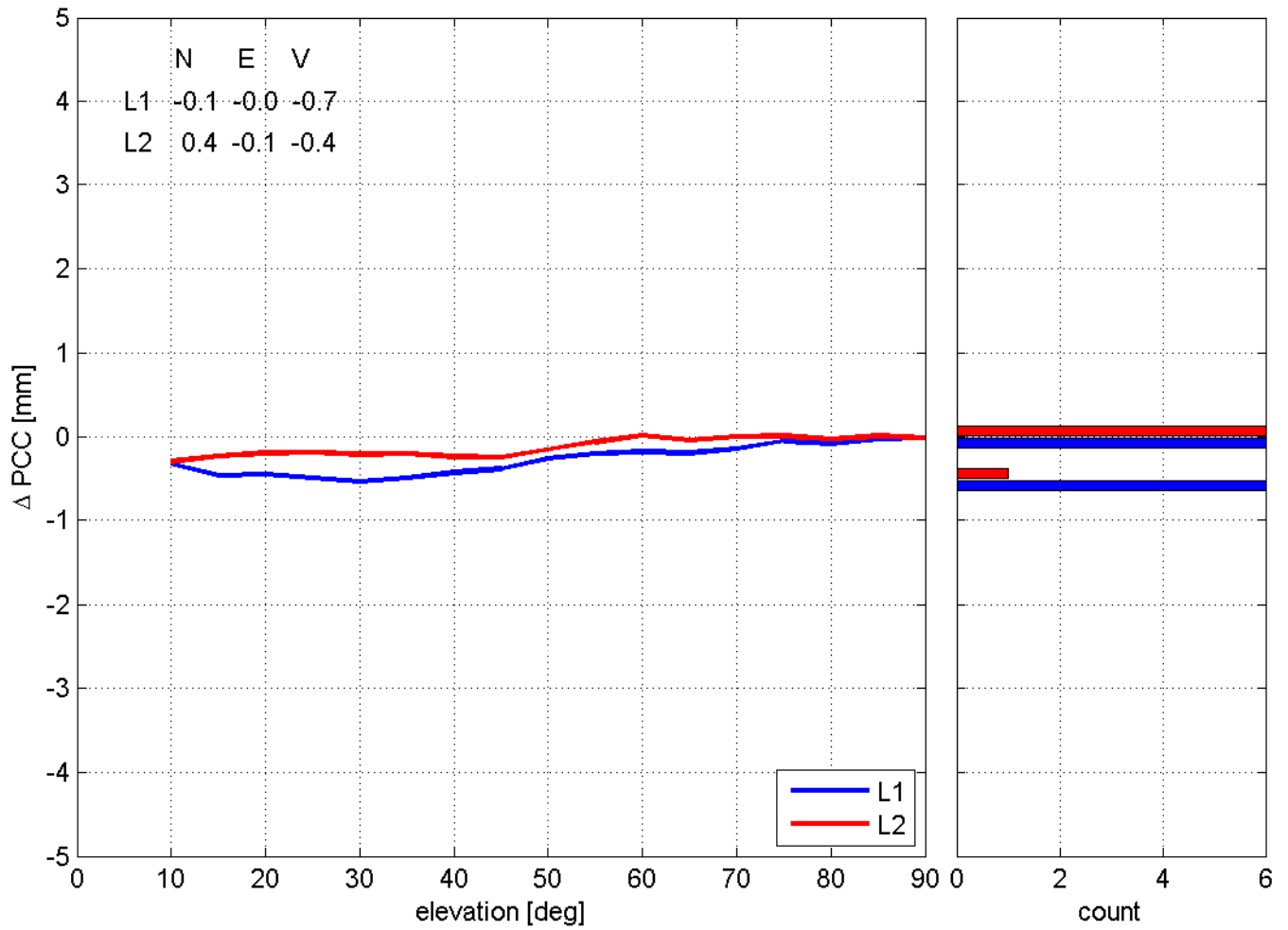
rover antenna (no
rx)



TRM57970.00 NONE

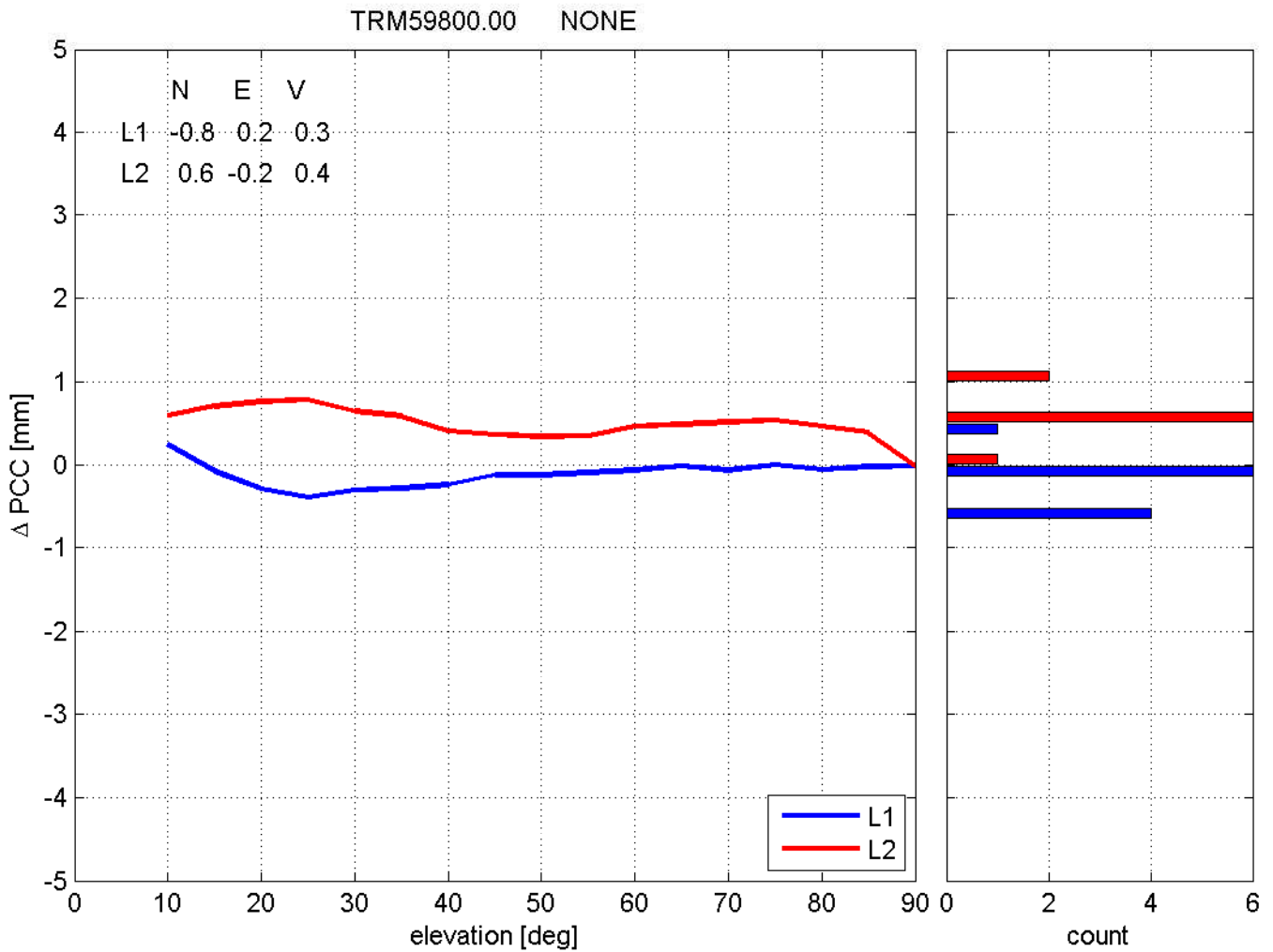
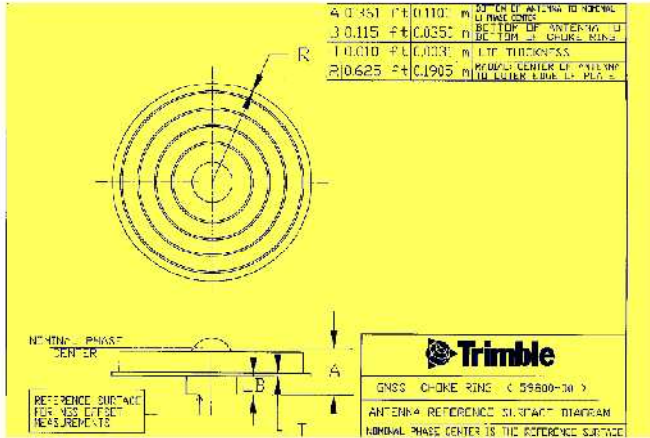


TRM57971.00 NONE



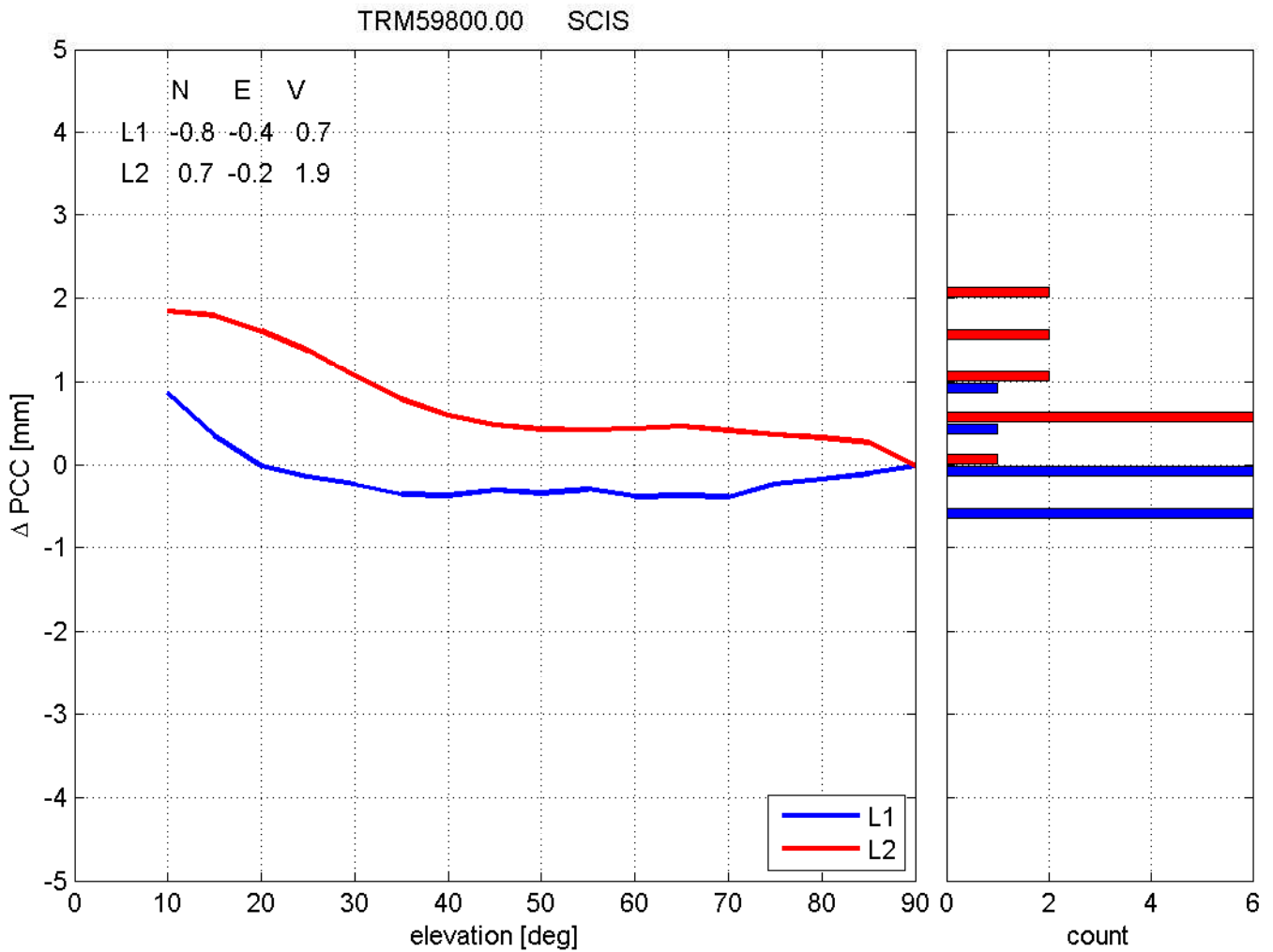
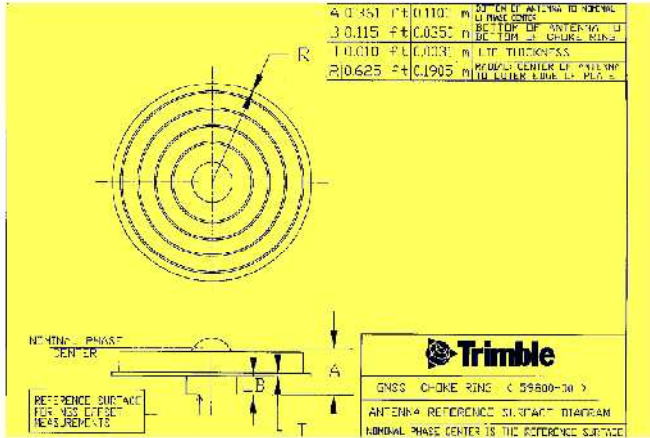
calib date:
07-May-2008

chokering (CR)



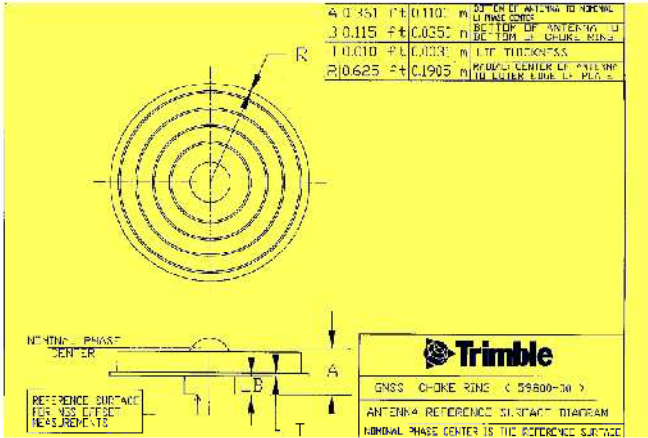
calib date:
08-May-2008

choking (CR)

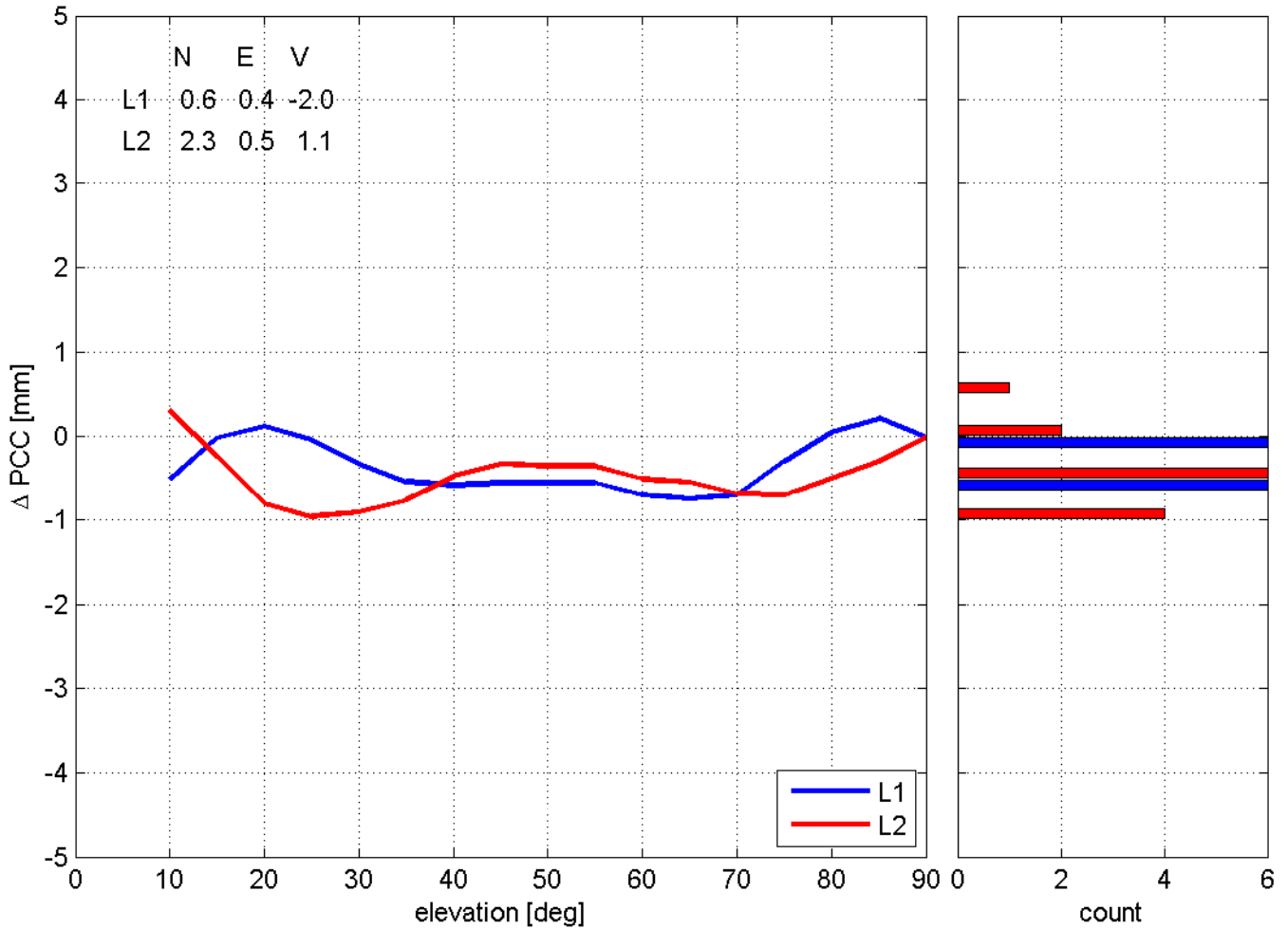


calib date:
23-Apr-2008

chokering (CR)

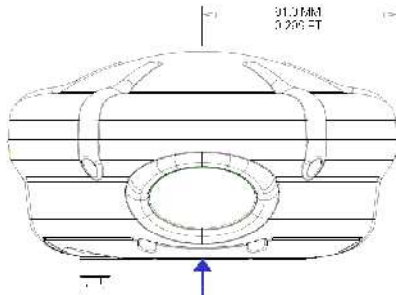


TRM59800.00 SCIT

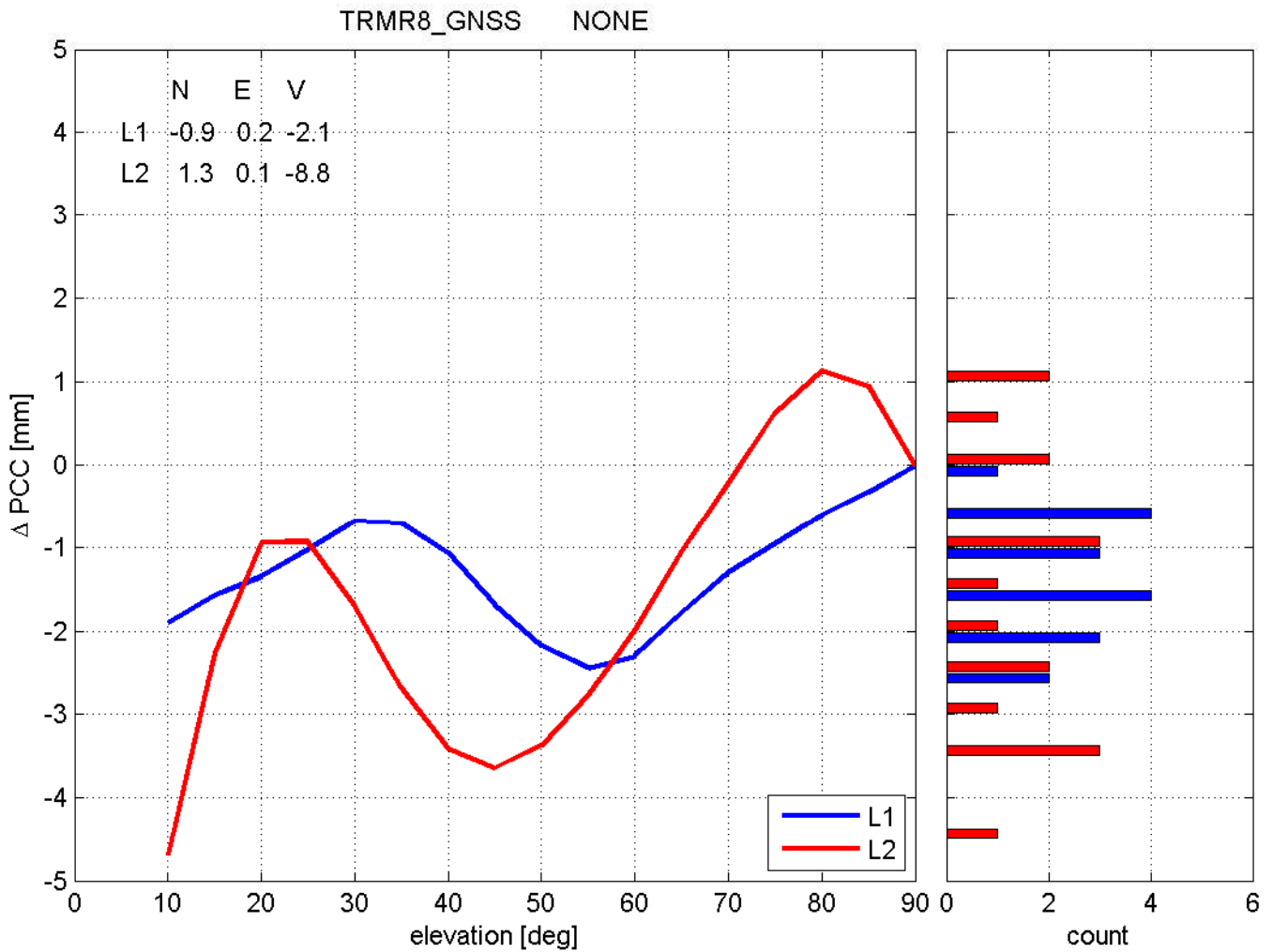


calib date:
22-May-2006

integrated
antenna/receiver

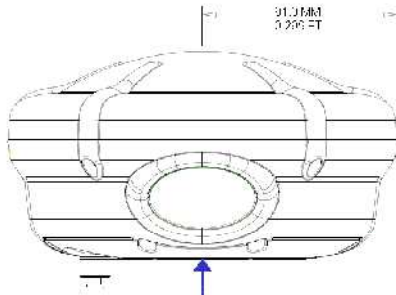


Reference Surface For NGS
Offset Measurements



calib date:
22-May-2006

integrated
antenna/receiver



Reference Surface For NGS
Offset Measurements



TRMR8_GNSS3 NONE

