

Station GPS permanente

IPG Paris

DGF Uchile

UNAP Iquique

Site Name : PCAL Calama	Author : Socquet/Carrizo
Site Code : PCAL	date installation: 2003 _ 11 _30
Coordinates : PCAL : -68.9297 -22.4563 2300.28	

DESCRIPTION

Permanent GPS station IPGParis, DGF, UNAP
Chile 2nd region, city of Calama, carabineros de Chile.

GEOLOGICAL SITUATION

Building constructed on SAND
Bedrock Type :) → some meters of SAND over IGNEOUS bed rock

ACCESS

Carabineros de Chile, v. Granaderos N° 2490, Calama, North Chile 2nd region
Receiver is in a metal box, in the cafeteria of carabineros (1st floor) (see picture)
Antena is located on the roof of the same building (2nd floor). Access is easy through a permanent external ladder.

PRACTICAL INFORMATIONS

state property	YES	NO	Carabineros de Chile
private property	YES	NO	
access restricted	YES	NO	Carabineros working hours
telephone nearby	YES	NO	
Electric power nearby	YES	NO	
equipment storage available	YES	NO	
possibility of leaving the equipment without watching	YES	NO	
possibility of having the equipment watched over	YES	NO	
person to contact	YES	NO	Subofficial Norberto Correa Severino Tel: 755 215 Mob : 9 120 0209 E-mail: norberto.correa@carabineros.cl

Historic

PCAL: ZX installed from 30 NOV 2003 to 22 MAR 2005
No instrument during 3.5 years
ZX reinstalled 23-NOV-2008

COORDINATES INFORMATION

Approximate Position

X coordinate (m)	:	2120943.06
Y coordinate (m)	:	-5505056.65
Z coordinate (m)	:	-2422067.17
Latitude (deg)	:	-22.4563
Longitude (deg)	:	-68.9297
Elevation (m)	:	2300.28

PCAL _ Site Information Form _ International GPS Service for Geodynamics

0. Form

Prepared by (full name) : A. Socquet
Date Prepared : 23-FEV-2009
Report Type : UPDATE

1. Site Identification of the GPS Monument

Site Name : Calama tracking station
Four Character ID : PCAL
Monument Inscription :
IERS DOMES Number :
CDP Number : (XXXX)
Date Installed : 30-NOV-2003
Geologic Characteristic : GRAVEL/SAND
Bedrock Type : SEDIMENTARY
Bedrock Condition : on the top of a 2 level building
Fracture Spacing :
Notes : installed on the top of Central CarabineroS Building of Calama city
(Chile). Avenida Granaderos 490, Calama, Chile
Local correspondant: Suboficial Norberto Correa Severino, norberto.correa@carabineros.cl
cel: 9 120 0209, tel: 755 215 / 755 228 / 755 224

A steel mark type IPGP/DGF is sealed on the top of the building
No auxilliary point ;

Additional Information : Geological Province: Andean Cordillera
: Local Geology: :
: Geological information from xxx
: Program:.

2. Site Location Information

City or Town : Calama
Country : Chile
Tectonic Plate : South American but in the convergence area of Nazca/ SOAM plates

Approximate Position

X coordinate (m) : 2120943.06
Y coordinate (m) : -5505056.65
Z coordinate (m) : -2422067.17
Latitude (deg) : -22.4563
Longitude (deg) : -68.9297
Elevation (m) : 2300.28

Additional Information : Latitude, Longitude and Elevation derived from Gamit calculation

3. GPS Receiver Information

3.1 Receiver Type : ASHTECH Xtreme / UZ-12
Serial Number : ZR 220023 035
Firmware Version : 7.xxx ZB00 0A13
Date Installed : 30-NOV-2003
Date Removed : 22-MAR-2005
Additional Information : (multiple lines)

3.2 Receiver Type : ASHTECH ZXtreme
Serial Number : ZE1200 324054
Firmware Version : ZE00-OA13
Date Installed : 23-NOV-2008
Date Removed : (dd-MMM-yyyy hh:mm UT)

4. GPS Antenna Information

4.1 Antenna Type : ASHTECH GEODETIC IV
Serial Number : 879
Antenna Height (m) : 0.000 (to be verified)
Antenna Reference Point : ARP = dhpab
Degree Offset from North : 0.0
Antenna Radome Type :
Date Installed : 30-NOV-2003 hh:mm UT
Date Removed : 22-MAR-2005

4.2 Antenna Type : ASHTECH GEODETIC IV
Serial Number : 7892
Antenna Height (m) : 0.000 (to be verified)
Antenna Reference Point : ARP = dhpab
Degree Offset from North : 0.0
Antenna Radome Type :
Date Installed : 23-NOV-2008
Date Removed :

5. Local Site Ties : NO local ties

5.1 Monument Name :
Site Ref CDP Number :
Site Ref Domes Number :

Differential Components from GPS Mark to Site Reference (ITRS)

dx (m) :
dy (m) :
dz (m) :
Accuracy (mm) : (mm)
Date Measured : (dd-MMM-yyyy hh:mm UT)
Additional Information :

6. Frequency Standard : NO

6.1 Standard Type :
Frequency :
Effective Dates :

7. Collocation Information

7.x Instrumentation Type : No
Status : (PERMANENT/MOBILE)

Effective Dates : (dd-MMM-yyyy - dd-MMM-yyyy)

8. Meteorological Instrumentation : No

- 8.1 Humidity Sensor Model :
- 8.2 Pressure Sensor Model :
- 8.3 Temperature Sensor Model :
- 8.4 Water Vapor Radiometer :
- 8.5 Other Instrumentation : (multiple lines) pm

9. On-Site, Point of Contact Agency Information

Agency : DGF _ Departamento de Geofisica _ Universidad de Chile
Mailing Address : Blanco Encalada 2085, Santiago Chile
Primary Contact : Daniel Carrizo Telephone (primary) : 02 678 43 06 Fax :
E-mail : carrizo@dgf.uchile.cl
Secondary Contact : Suboficial Norberto Correa Severino
Telephone (primary) : 755 215 Telephone (secondary) : 9 120 0209
Fax : E-mail : norberto.correa@carabineros.cl

10. Responsible Agency (if different from 9.)

Agency : DGF _ Departamento de Geofisica _ Universidad de Chile
Mailing Address : Blanco Encalada 2085, Santiago Chile
Primary Contact : Daniel Carrizo Telephone (primary) : 02 678 43 06 Fax :
E-mail : carrizo@dgf.uchile.cl
Secondary Contact : Socquet Anne , IPG Paris France
Telephone (primary) : 00 33 1 44 27 48 93 Telephone (secondary) : 303-497-8002
Fax : 00 33 1 44 27 38 94 E-mail : socquet@ipgp.jussieu.fr

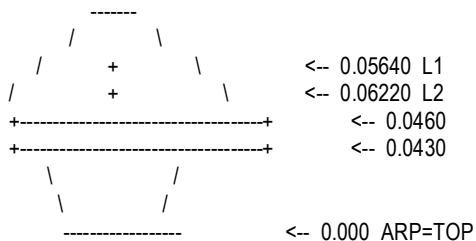
11. More Information

URL for More Information :

Hardcopy on File

Site Map : Site Diagram : Horizon Mask
Monument Description : Site Pictures : Additional Information : (multiple lines)
Antenna Graphics with Dimensions

ASH701975.01A



ARP: Antenna Reference Point

L1 : L1 Phase Center L2 : L2 Phase Center
TCR: Top of Choking BCR: Bottom of Choking





