

### Station GPS permanente

IPG Paris

DGF Uchile

UNAP Iquique

Site Name: Pisagua	Author : <b>deChabali</b> er / <b>Socquet</b> / <b>Nercessian</b>
Site Code : <b><u>PSGA</u></b>	Date installation : <b>2007 03 29</b>
Coordinates : PSGA : -19.59738 -70.12301 1002	

### DESCRIPTION

North Chili I region, Permanent GPS station from IPGP / DGF network

### MONUMENTATION

Colocated with seismic station.

Pilar constructed in reinforced concrete.

Inox 12 cm rod (Delmont type) sealed in concrete at the top of the pilar PG-A1 antenna; receptor Topcon GB1000.

### HISTORIC

Permanent GPS station installed since 29-MARCH- 2007

### PRACTICAL INFORMATIONS

state property		<b>NO</b>	Station colocated with seismic station
private property		<b>NO</b>	
access restricted	<b>YES</b>	<b>NO</b>	Need to get the key of seismic cave to access the receiver
telephone nearby		<b>NO</b>	
Electric power nearby		<b>NO</b>	
equipment storage available	<b>YES</b>	<b>NO</b>	In the seismo cave
possibility of leaving the equipment without watching	<b>YES</b>	<b>NO</b>	
person in charge	<b>YES</b>	<b>NO</b>	Prof. Manuel Olcay ( UNAP Iquique) → 84663240 (cel.), (57) 310716 , (57) 394369, <a href="mailto:molcay@unap.cl">molcay@unap.cl</a>
person to contact	<b>YES</b>	<b>NO</b>	Anne Socquet Email : <a href="mailto:socquet@ipgp.jussieu.fr">socquet@ipgp.jussieu.fr</a>

### COORDINATES

PSGA\_gps continu : Coordonnees geocentriques :

X coordinate (m) : 2044050  
Y coordinate (m) : -5653719  
Z coordinate (m) : -2126097

Latitude (deg) : -19.59738  
Longitude (deg) : -70.12301  
Elevation (m) : 1002

## PSGA \_ Site Information Form \_\_ International GPS Service for Geodynamics

### 0. Form

Prepared by (full name) : Anne SOQUET, J.B. de CHABALIER, IPG Paris

Date Prepared : 2007-05-31

Report Type : UPDATE

### 1. Site Identification of the GPS Monument

Site Name : Pisagua \_ Tracking Station

Four Character ID : PSGA

Monument Inscription :

IERS DOMES Number :

CDP Number : (XXXX)

Date Installed : 29-MARCH-2007 hh:mm UT

Geologic Characteristic : CONGLOMERATE

Bedrock Type : SEDIMENTARY

Bedrock Condition : JOINTED/WEATHERED

Fracture Spacing : 10-50 cm

Notes : (multiple lines)

Additional Information : Geological Province: Andean Cordillera \_ Coastal scarp

: Local Geology: The top layer of soil from

: Clay below the top layer is a rather stable compact material.

: Geological information

: Program: Catalogue of Site Information",

### 2. Site Location Information

City or Town : PISAGUA

State or Province : Region 1

Country : Chile

Tectonic Plate : South American

Approximate Position

PSGA\_GPS 2044050 -5653719 -2126097

X coordinate (m) : 2044050  
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Elevation (m) : 1002

Additional Information :

: Site information from Anne Socquet, J.B. de Chabalier, IPG P, Jaime Campos, DGF, Chile

### 3. GPS Receiver Information

3.1 Receiver Type : Topcon GB1000  
Serial Number : s/n T224400  
Firmware Version : xxx  
Date Installed : 29-MARCH-2007  
Date Removed :  
Additional Information : (multiple lines)

3.2 Receiver Type :  
Serial Number :  
Firmware Version : xxx  
Date Installed :  
Date Removed :

Note :  
Note 2 :  
:  
Date Installed :  
Date Removed : (dd-MMM-yyyy hh:mm UT)

#### 4. GPS Antenna Information

4.1 Antenna Type : Topcon PGA1  
Serial Number : S/N 310-0461  
Antenna Height (m) : 0.01  
Antenna Reference Point : DHPAB  
Degree Offset from North :  
Antenna Radome Type :  
Date Installed : 29-MARCH-2007 hh:mm UT  
Date Removed :  
station. info :

4.2 Antenna Type :  
Serial Number :  
Antenna Height (m) :  
Antenna Reference Point :  
Degree Offset from North :  
Antenna Radome Type :  
Date Installed :  
Date Removed :

#### 5. Local Site Ties

5.1 Monument Name :  
Site Ref CDP Number :  
Site Ref Domes Number :  
dx (m) :  
dy (m) :  
dz (m) :  
Accuracy (mm) : (mm)  
Date Measured : (dd-MMM-yyyy hh:mm UT)  
Additional Information : Mark

5.2 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 :

5.3 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

6.1 Standard Type :  
Frequency :  
Effective Dates :  
6.2 Standard Type : INTERNAL  
Frequency :  
Effective Dates : - dd-MMM-yyyy

## 7. Collocation Information

7.x Instrumentation Type :  
Status : (PERMANENT/MOBILE)  
Effective Dates : (dd-MMM-yyyy - dd-MMM-yyyy)

## 8. Meteorological Instrumentation

8.1 Humidity Sensor Model :  
Manufacturer :  
Data Frequency :  
Accuracy (% rel h) : (% rel h)  
Effective Dates : (dd-MMM-yyyy - dd-MMM-yyyy)

8.2 Pressure Sensor Model :  
Manufacturer : Data Frequency :  
Accuracy (mbar) : (mbar) Height Diff to GPS (m) : (m)  
Effective Dates : (dd-MMM-yyyy - dd-MMM-yyyy)

8.3 Temperature Sensor Model :  
Manufacturer : Data Frequency :  
Accuracy (deg C) : (deg C)  
Effective Dates : (dd-MMM-yyyy - dd-MMM-yyyy)

8.4 Water Vapor Radiometer :  
Manufacturer : Distance to GPS (m) : (m)  
Elev Diff to GPS (m) : (m) Effective Dates : (dd-MMM-yyyy - dd-MMM-yyyy)

8.5 Other Instrumentation : (multiple lines) pm

## 9. On-Site, Point of Contact Agency Information

Agency : Department of Physics\_ Universidad Arturo Prat, Iquique, Chile  
Mailing Address :  
Primary Contact :  
Contact Name : Manuel Olcay  
Telephone (primary) : 447070 Fax :  
E-mail : molcay@unap.cl  
Secondary Contact :

10. Responsible Agency (if different from 9.)

Contact Name : Socquet Anne  
Telephone (primary) : +33 1 44 27 48 93  
Telephone (secondary) :  
Fax : +33 1 44 27 24 40  
E-mail : socquet@ipgp.jussieu.fr, dechabal@ipgp.jussieu.fr, charade@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)

## ADDITIONAL INFORMATION

power : Solar panel + solar regulator

Battery : dry battery

Antenna cable : 30m of low loss cable + 5m of thin cable with topcon plug

Internet connection : satellite connection with fix IP address installed in NOV 07

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Locations from Google Earth permanent station: PSGA







