

Station GPS permanente

IPG Paris

DGF Uchile

UNAP Iquique

Site Name: Humberstone	Author : deChabali / Socquet / Nercessian
Site Code : <u>HMBS</u>	Date installation : 2007 03 29
Coordinates : HMBS : -20.27837 -69.88773 1208	

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

COORDINATES

HMBS_gps continu : Coordonnees geocentriques :

X coordinate (m) : 2058474
Y coordinate (m) : -5621316
Z coordinate (m) : -2197049

Latitude (deg) : -20.27837
Longitude (deg) : -69.88773
Elevation (m) : 1208

HMBS _ Site Information Form __ International GPS Service for Geodynamics

0. Form

Prepared by (full name) : Anne SOCQUET, J.B. de CHABALIER, IPG Paris
Date Prepared : 2007-05-31
Report Type : UPDATE

1. Site Identification of the GPS Monument

Site Name : Humberstone _ Tracking Station
Four Character ID : HMBS
Monument Inscription :
IERS DOMES Number :
CDP Number : (XXXX)
Date Installed : 29-MARCH-2007 hh:mm UT
Geologic Characteristic : CONGLOMERATE / GYPSUM
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 : HUMBERSTONE
State or Province : Region 1
Country : Chile
Tectonic Plate : South American
Approximate Position
HMBS_GPS 2058474 -5621316 -2197049

X coordinate (m) : 2058474
Y coordinate (m) : -5621316
Z coordinate (m) : -2197049

Latitude (deg) : -20.27837
Longitude (deg) : -69.88773
Elevation (m) : 1208

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 : ASHTECH Topcon GB1000
Serial Number : s/n T224397
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 308-3833
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
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 24 35
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 adress installed in NOV 07

Locations from Google Earth permanent station: HMBS







