Site Name : **Tololo permanent station**	Author : **Morvan + Decamps**
Site Code :**T O L O**	date : year **2007** month **05** day **29**
Coordinates : Lat. : **S 30° 10' 11.73"** Lon. : **W 070° 48' 21.75"** Alt. : **2228** m	

DESCRIPTION

North Chili IV region, district of Limari, area de Vicuna.On the roof of the Observatory of Cerro Tololo.

MONUMENTATION

Geodyssea marker type, scealed in concrete pilar + rotating adaptor, height 28 mm.

ACCESS

Access from road La Serena to Vicuna. After 55 km turn right (it's 5 km after the tunnel "Embalse de Puclaro". A pannel tells you "El Tololo". After a "control Puerta", a good dirt road takes you in 30 km to Cerro Tololo .

WARNING : You need to ask for access.

Send an e-mail from Paris to Eduardo Enrique Figueroa (Gerente General de AURA Observatory in Chile, Universidad Andres Bello, La Serena – Efigueroa@ctio.noao.edu), cc : Luisa Cortes (Lcortes@ctio.noao.edu) (secretary who do the work), explaining the motivation of the work (title and subject of the project, …), names and n. of passport or RUT of the operators, car immatriculation and the days of measuring. It is important to ask for the authorisation to be envoyed directly to « Control Puerta » (the Observatory access) explaining why (it is difficult for us to go to La Serena to get this document). You can also send email to the resercher in the observatory : Oscar Saa (osaa@ctio.noao.edu, 51-205419), Rolando Puno (rpuno@ctio.noao.edu, 50-205440), they can chek if the receiver is ok and they want to known if we come.

When you see the observatory, turn left at the last crossing (50m meter under the top); you will see a parking. Of the other side of the road there is a small bulding(containing the receiver), and a bigger with the antenna on his roof. Take a look to the photos, it's easy to find.

ADDITIONAL INFORMATION

Initial installation with Ashtech ZX-treme and Geodetic IV antenna
Operationnal since 11/05/2005 (day 131 of year 2005)
Receiver SN : ZE1200321072 firmware ZC00
Antenna PN: ASH701975.01A / SN: 7737

Upgrade with Trimble Net-RS and Zephyr antenna
Operational since 06/05/2007 (day 126 of year 2007)

Charger : Type Lian Long 12v.
Battery : Delphi 40 Ah.
Antenna cable Trimble 10meters, small section.
Network cable 26 AWG 4p 5meters.
Dual power connection : A = 220v from transformeur, B = 12v battery.

Receiver Configuration

Identity TOLO
SN4635120802

Firmware 1.1-3 28 Apr 2005

Antenna Type: 86 = Zephyr Geodetic
SN60165655 , "41249-00 DC 4616"
Height: 0.000 meters
Height Method: Bottom of antenna mount

Clock Steering Enabled

Multipath Reduction Enabled

L2C Tracking Disabled

Elevation Mask 15°

PDOP Mask 7

Pulse Per Second Output Disabled

Reference Frequency Using Internal Source
External source NOT detected

GPS Satellites Disabled: None
IgnoreHealth: None

WAAS Disabled
Enabled Satellites: EGNOS-AOR-E, prn121, WAAS-AOR-W, prn123, prn124, prn125, prn126, prn127, prn128, MSAS-1, prn130, EGNOS-IOR, prn132, prn133, WAAS-POR, prn135, prn136, MSAS-2, prn138

Reference Station RTCM Station ID: 0
Binex Station ID:
CMR Station ID: 0
CMR Station Name: TOLO
Description: Observatoire del Tololo - IV region - Chile
Position:

Lat:	30°10'11.73621" S	X:	1815037.8 m
Lon:	070°48'21.74487" W	Y:	-5213851.7 m
Height:	2228.617 meters	Z:	-3187790.5 m

Data Logging Enabled Sessions:

1s: Continuous 1440 minute sessions.
30s: Continuous 1440 minute sessions.
Power Saving Mode: Disabled.
Reserved Space: Not AutoDeleting.
AutoDelete Pools:

y-pool	650 Mbytes	AutoDeleting.
z-pool	210 Mbytes	AutoDeleting.

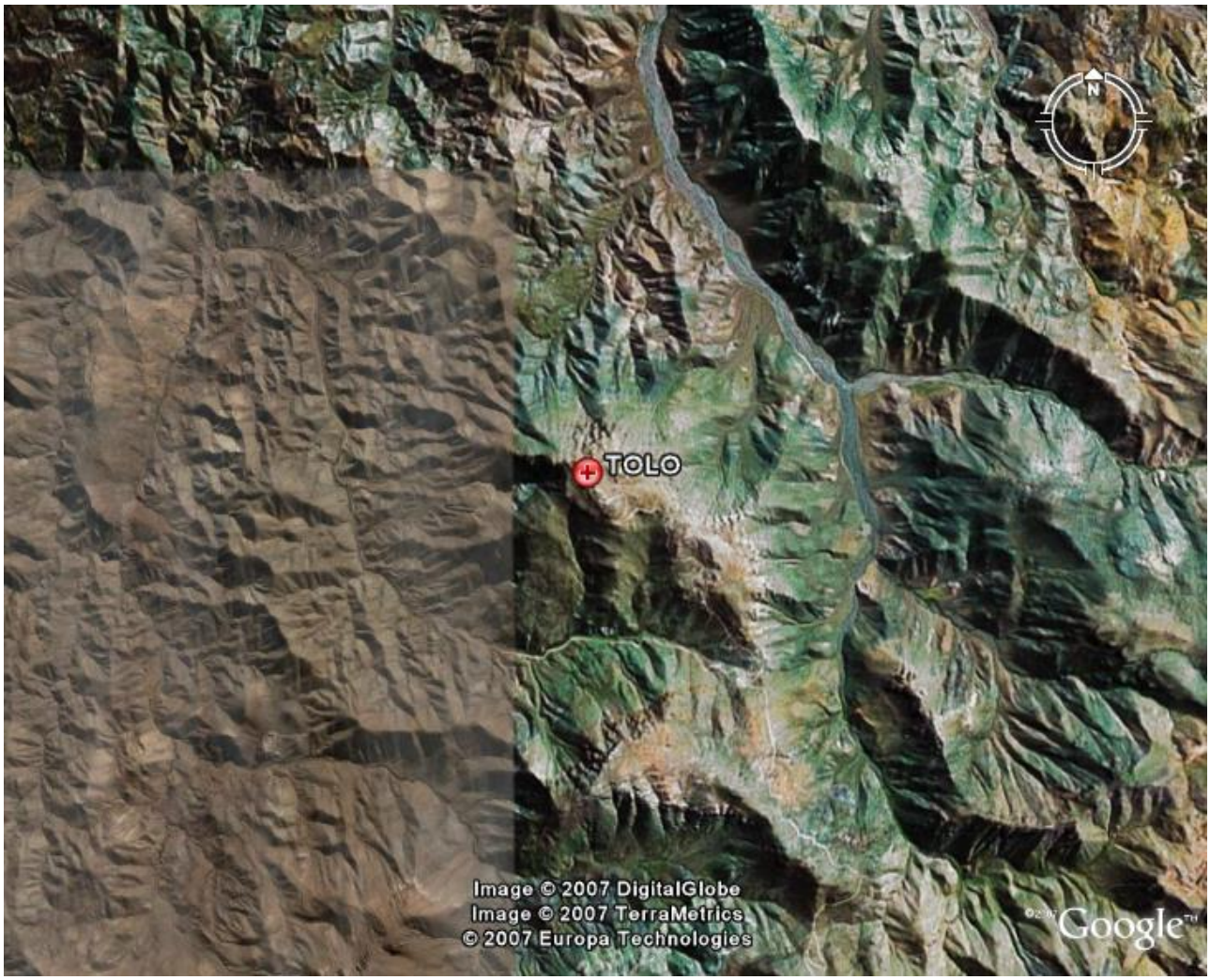
Ethernet

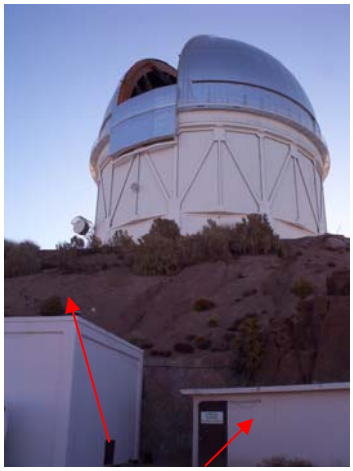
MAC Address:	00:60:35:03:5B:70
IP Address:	139.229.13.15 (static)
Netmask:	255.255.255.128
Gateway :	139.229.13.1

IP Filtering Disabled

Shutdown Voltage 10.68 Volts

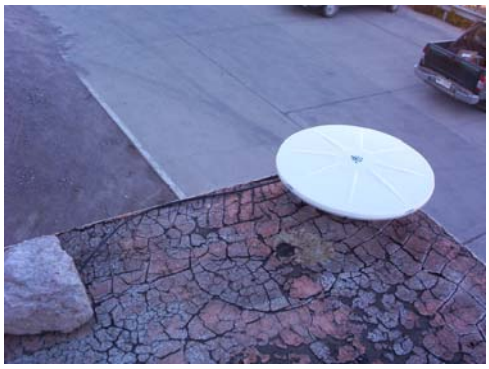
ACCESS and SITE SKETCH MAP



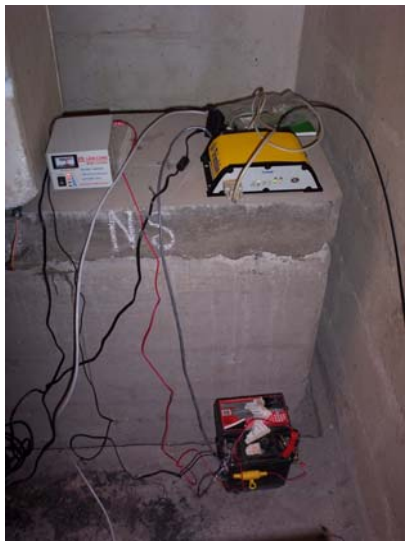


Antenna - receiver

The antenna on the roof



The antenna Zephyr Geodetic

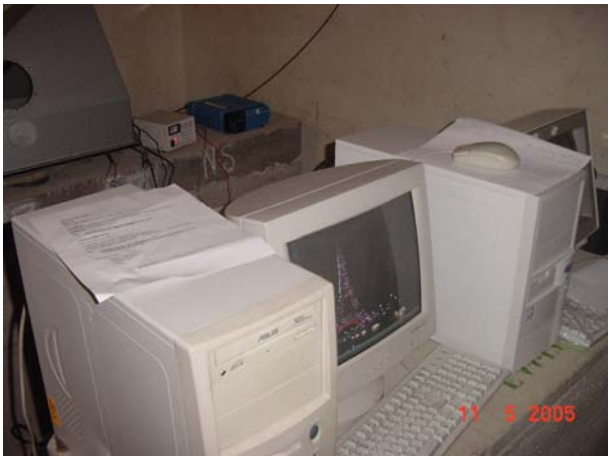


The receiver with battery and charger

INFORMATIONS

May 2007

We changed the receiver and the antenna. The receiver is now a NetRS Trimble (SN4635120802) (old was a ZX-treme Ashtec ZE1200321072) and the antenna is a zephyr Geodetic Trimble (SN60165655) (the old was Geodetic IV Ashtec 701975). The NetRS is connected directly to the network observatory with is own IP adresse (139.229.13.15). Normally, we can access to the receiver and to the data directly from DGF serveur (146.83.8.251). We tried to do it with Ismael from DGF (02-9784304, cartog@dgf.uchile.cl) and Oscar Saa (51205419, osaa@ctio.noao.edu), but it didn't work at the moment. The other person to help us about network informatic problem in the observatory are Gale Brehmer, (205415, gbrehmer@ctio.noao.edu), Sergio Franco, (205440, sfranco@ctio.noao.edu).



Old installation : Ashtec ZX-treme and Geodetic 4

To do next time

. To access to the receiver from DGF and if it 's ok, to pick up the PC to the DGF.
. To enter antenna height and xyz position in the config of the receiver.
. To change battery charger, put a mascot like in the others permanents stations sites.