

# Compte-rendu Mission GPS

## Re-mesure Régions III-Nord / II-Taltal



**Dates :** 10 Juin – 27 juin 2014

**Participants :**

- Christophe Vigny, DR2-CNRS, Laboratoire de géologie ENS
- Emilie Klein, doctorante, laboratoire de géologie ENS

**Objectif :**

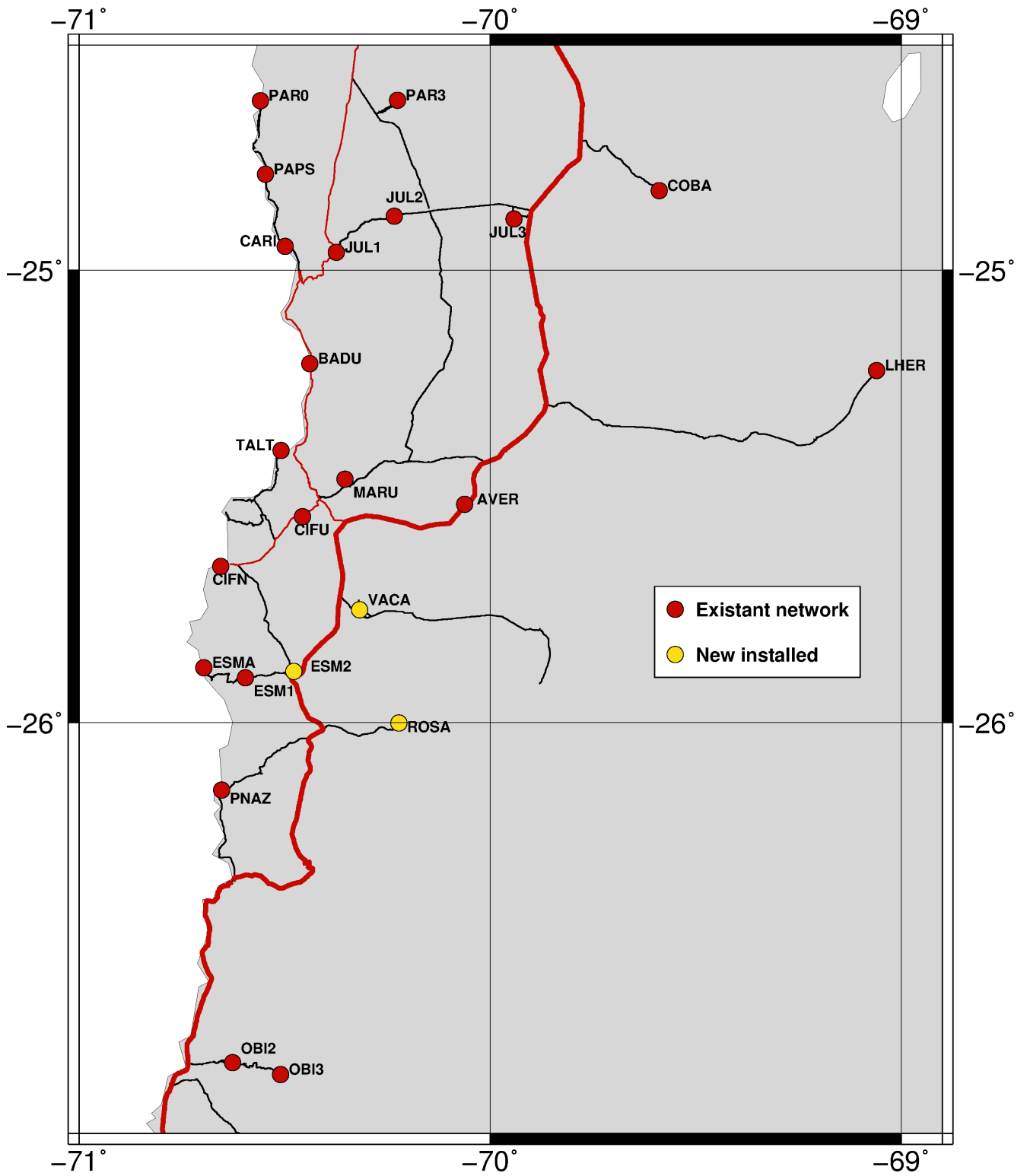
Remesure du réseau de markers de la région III et Sud de la région II, depuis la Pan de Azucar en incluant le profil d'Obispito jusqu'au Paranal (24,5°S).

**Matériel :**

- 15 récepteurs Ashtech ZX + antennes de la DT INSU
- 5 récepteurs Ashtech ZX + antennes du LIA

**Compte-rendu :**

- 22 sites ont été mesurés entre 4 et 8 jours sur des sessions de 24h.
- 3 nouveaux sites ont été installés et mesurés : VACA, ESM2 et ROSA
- LHER, prévu au programme, n'a pas pu être mesuré car rendu inaccessible par la neige.



## Planning de mesure :

| 22 sites |            |           |         |                  | 20 récepteurs |         |          |         |         | 164      | 165     | 166      | 167     | 168      | 169     | 170 | 171 | 172 | 173 | 174 |
|----------|------------|-----------|---------|------------------|---------------|---------|----------|---------|---------|----------|---------|----------|---------|----------|---------|-----|-----|-----|-----|-----|
| WGS84    |            |           |         |                  | 15/juin       | 16/juin | 17/juin  | 18/juin | 19/juin | 20/juin  | 21/juin | 22/juin  | 23/juin | 24/juin  | 25/juin |     |     |     |     |     |
| SITE     | lat (°)    | lon (°)   | alt (m) | Mark type        | vendredi      | samedi  | dimanche | lundi   | mardi   | mercredi | jeudi   | vendredi | samedi  | dimanche | lundi   |     |     |     |     |     |
| AVER     | -25,518500 | 70,062960 | 1524    | Delmont          | -             |         | 1        | 1       | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| CARI     | -24,946944 | 70,498889 | 120     | GEODYSSSEA (GFZ) | -             |         |          | 1       | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| CIFN     | -25,655830 | 70,655390 | 36      | Delmont          | -             |         | 1        | 1       | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| CIFU     | -25,546000 | 70,456600 |         | Pin marker (US)  | -             |         | 1        | 1       | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| COBA     | -24,823889 | 69,588333 | 2550    | GEODYSSSEA (GFZ) | -             |         |          |         | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| PNAZ     | -26,148220 | 70,653660 | 31      | Pin marker (US)  | -             |         | 1        | 1       | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| MARU     | -25,463610 | 70,353870 | 978     | Delmont          | -             |         | 1        | 1       | 1       | 1        | 1       | 1        | 1       |          |         |     |     |     |     |     |
| TALT     | -25,399780 | 70,509450 | 24      | GEODYSSSEA (GFZ) | -             |         | 1        | 1       | 1       | 1        | 1       | 1        | 2       | 1        |         |     |     |     |     |     |
| OBI2     | -26,74529  | -70,6263  |         | Delmont          | -             | 1       | 1        | 1       | 1       | 1        | 1       |          |         |          |         |     |     |     |     |     |
| OBI3     | -26,77175  | -70,51026 |         | Delmont          | -             | 1       | 1        | 1       | 1       | 1        | 1       |          |         |          |         |     |     |     |     |     |
| JUL1     | -24,96059  | -70,37383 |         | Delmont          | -             |         |          | 1       | 1       | 1        | 1       |          |         |          |         |     |     |     |     |     |
| JUL2     | -24,88078  | -70,23377 |         | Delmont          | -             |         |          | 1       | 1       | 1        | 1       |          | 1       |          |         |     |     |     |     |     |
| JUL3     | -24,88721  | -69,94155 |         | Delmont          | -             |         |          |         |         | 1        | 1       |          | 1       | 1        |         |     |     |     |     |     |
| PAR0     | -24,624    | -70,559   |         | Delmont          | -             |         |          | 1       | 1       | 1        | 1       |          | 1       |          |         |     |     |     |     |     |
| PAPS     | -24,787    | -70,547   |         | Delmont          | -             |         |          | 1       | 1       | 1        | 1       |          | 1       |          |         |     |     |     |     |     |
| BADU     | -25,208    | -70,439   |         | Delmont          | -             |         |          | 1       | 1       | 1        | 1       |          | 1       |          |         |     |     |     |     |     |
| ESMA     | -25,879    | -70,697   |         | Delmont          | -             |         | 1        | 1       | 1       | 1        | 1       |          |         |          |         |     |     |     |     |     |
| ESM1     | -25,901    | -70,595   |         | Delmont          | -             |         | 1        | 1       | 1       | 1        | 1       |          |         |          |         |     |     |     |     |     |
| PAR3     | -24,623    | -70,226   |         | Delmont          | -             |         |          | 1       | 1       | 1        | 1       |          | 1       |          |         |     |     |     |     |     |
| VACA     | -25,75148  | -70,31721 |         | Delmont          | -             |         |          |         |         | 1        | 1       |          | 1       | 1        | 1       | 1   | 1   | 1   | 1   | 1   |
| ESM2     | -25,88736  | -70,47796 |         | Delmont          | -             |         |          |         |         |          |         |          | 1       | 1        | 1       | 1   | 1   | 1   | 1   | 1   |
| ROSA     | -26,000627 | -70,22186 |         | Delmont          | -             |         |          |         |         |          |         |          | 1       | 1        | 1       | 1   | 1   | 1   | 1   | 1   |

## Numéros de séries récepteurs et hauteurs d'antenne :

| Point                         | nom                 | lat       | lon       | alt  | type            | Ant Height | true Height   | Receiver | Antenna      | Tribrach                  |
|-------------------------------|---------------------|-----------|-----------|------|-----------------|------------|---------------|----------|--------------|---------------------------|
| Chanaral/Taltal - Vigny/Klein |                     |           |           |      |                 |            |               |          |              |                           |
| PNAZ                          | Pan de Azucar       | -26,14822 | 70,65366  | 31   | Pin marker (US) | 0,1410     | <b>0,1280</b> | ZX       | ZE1200411010 | GD-IV 8918 triangular pla |
| OBI2                          | profil Obispito 2   | -26,74529 | 70,62630  | 332  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200324035 | GD-IV 7152                |
| OBI3                          | profil Obispito 3   | -26,77175 | 70,51026  | 702  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE120024410  | GD-IV 7160                |
| TALT                          | TalTal              | -25,39978 | 70,50945  | 24   | GEODYSSSEA (GF. | 0,0280     | <b>0,0280</b> | ZX       | ZE120023623  | GD-IV 7916                |
| CIFU                          | Cifuncho            | -25,54600 | 70,45660  |      | Pin marker (US) | 1,1187     | <b>1,0712</b> | ZX       | ZE1200452013 | GD-IV 7879 LIA2           |
| CIFN                          | Cifuncho village    | -25,65583 | 70,65539  | 36   | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452015 | GD-IV 7028                |
| MARU                          | Mina Maruja         | -25,46361 | 70,35387  | 978  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200526049 | GD-IV 7914                |
| AVER                          | Aguas Verdes        | -25,51850 | 70,06296  | 1524 | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200348005 | GD-IV 8727                |
| CARI                          | Caleta Rincon       | -24,94720 | 70,49890  | 120  | GEODYSSSEA (GFZ | 0,0280     | <b>0,0280</b> | ZX       | ZE1200324038 | GD-IV 8436                |
| COBA                          | Co. Buenos Aires    | -24,82420 | 69,58880  | 2550 | GEODYSSSEA (GFZ | 0,0280     | <b>0,0280</b> | ZX       | ZE1200348013 | GD-IV 6435                |
| JUL1                          | profil Mina Julia 1 | -24,96059 | 70,37383  | 1351 | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200321056 | GD-IV 7656                |
| JUL2                          | profil Mina Julia 2 | -24,88078 | 70,23377  | 2095 | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452012 | GD-IV 7112                |
| JUL3                          | profil Mina Julia 3 | -24,88721 | 69,94155  | 2298 | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200348006 | GD-IV 8274                |
| PAR0                          | Paranal côte        | -24,62400 | -70,55900 | 8    | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200324054 | GD-IV 7892                |
| PAR3                          | Paranal 30km        | -24,62300 | -70,22600 | 2770 | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452020 | GD-IV 8940                |
| PAPS                          | Paposo              | -24,78700 | -70,54700 | 4    | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE120024307  | GD-IV 7192                |
| ESMA                          | Esmeralda côte      | -25,87900 | -70,69700 | 67   | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452010 | GD-IV 8919                |
| ESM1                          | Esmeralda 10km      | -25,90100 | -70,59500 | 300  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452009 | GD-IV 8579                |
| BADU                          | Caletta Bandurrias  | -25,20800 | -70,43900 | 20   | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200321065 | GD-IV 7913                |
| VACA                          | Valle Vaca Muerta   | -25,75148 | -70,31721 | 880  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452004 | GD-IV 8374                |
| ESM2                          | Esmeralda 20km      | -25,88736 | -70,47796 | 610  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452009 | GD-IV 8579                |
| ROSA                          | Mina Rosario        | -26,00063 | -70,22186 | 790  | Delmont         | 0,0440     | <b>0,0440</b> | ZX       | ZE1200452010 | GD-IV 8919                |