



REPRAA - Network of Permanent Stations of the Azorean Autonomous Region

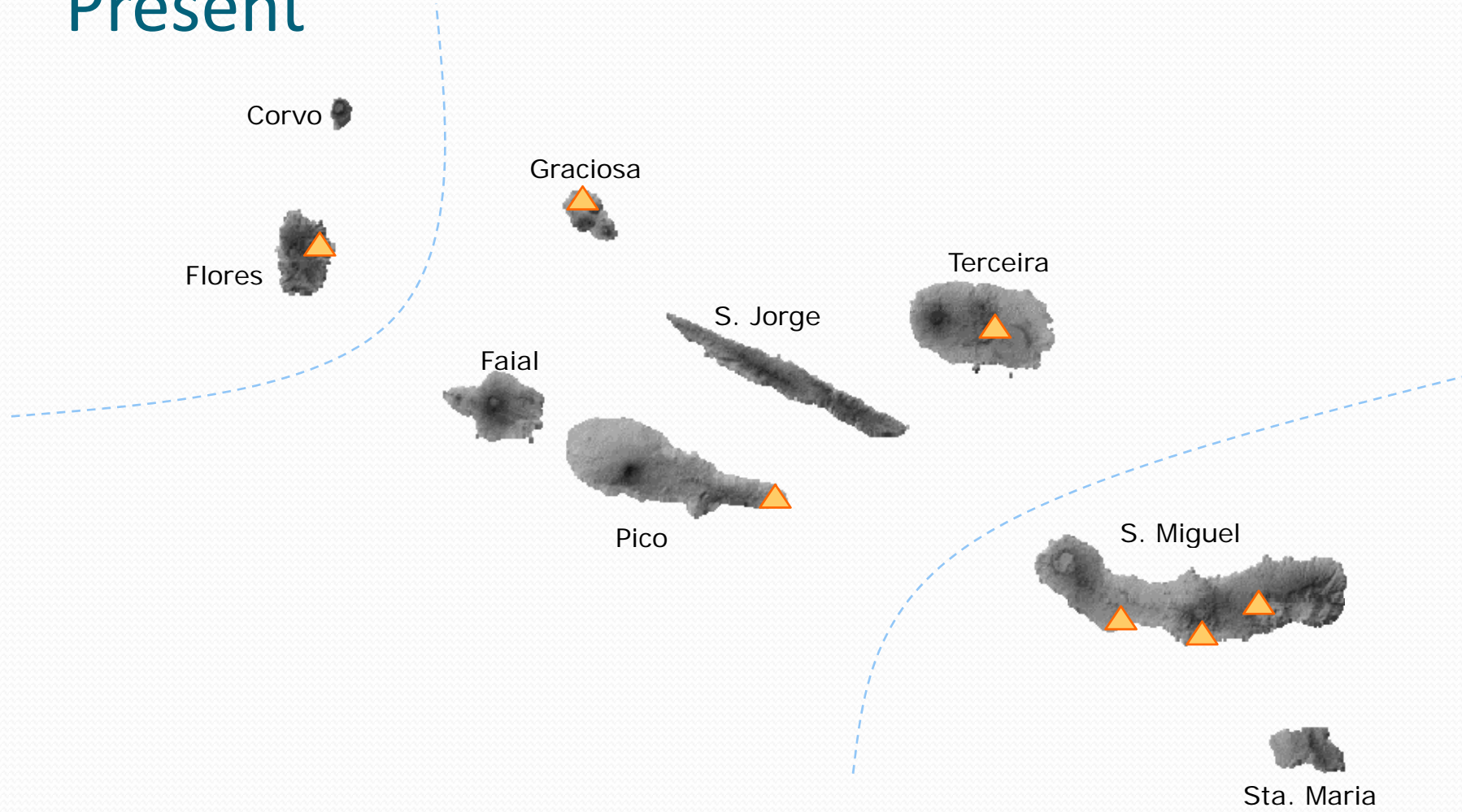
NEREUS - PEGASE WORKSHOP, 24th March 2010 – Bruxelles



The Project

- Create a reference geodetic infra structure on regional level
- Ensure the use of unique and homogeneous reference systems in the region
- More autonomy in developing jobs

Present



Ponta Delgada (PDEL)

- Protocol with Instituto Geográfico Português
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
 - Meteo data
- Applications:
 - Post Processing
 - RTK



Furnas (FRNS)

- RAA's Station
- Equipment:
 - Receiver Leica GX1230GG
 - Antennae Leica AT502 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK



Vila Franca do Campo (VFDC)

- Protocol with Vila Franca do Campo City Hall
- Equipment:
 - Receiver Leica GRX1200GG
 - Antennae Leica AT1203 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK



Terceira (TERC)

- RAA's Station
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
 - Meteo Data
- Applications:
 - Post Processing
 - RTK
 - In EUREF since Jan 3th 2010



Piedade (PIED)

- Protocol with Science Faculty of Oporto University
- Equipment:
 - Receiver Trimble NETRS
 - Antennae Trimble 41249
 - Signal: Code, L1 & L2
 - GPS
- Applications:
 - Post Processing
 - RTK



Graciosa (AZGR)

- Protocol with Science Faculty of Oporto University
- Equipment:
 - Receiver Trimble NETR5
 - Antennae Trimble 55971
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK(Restrito)

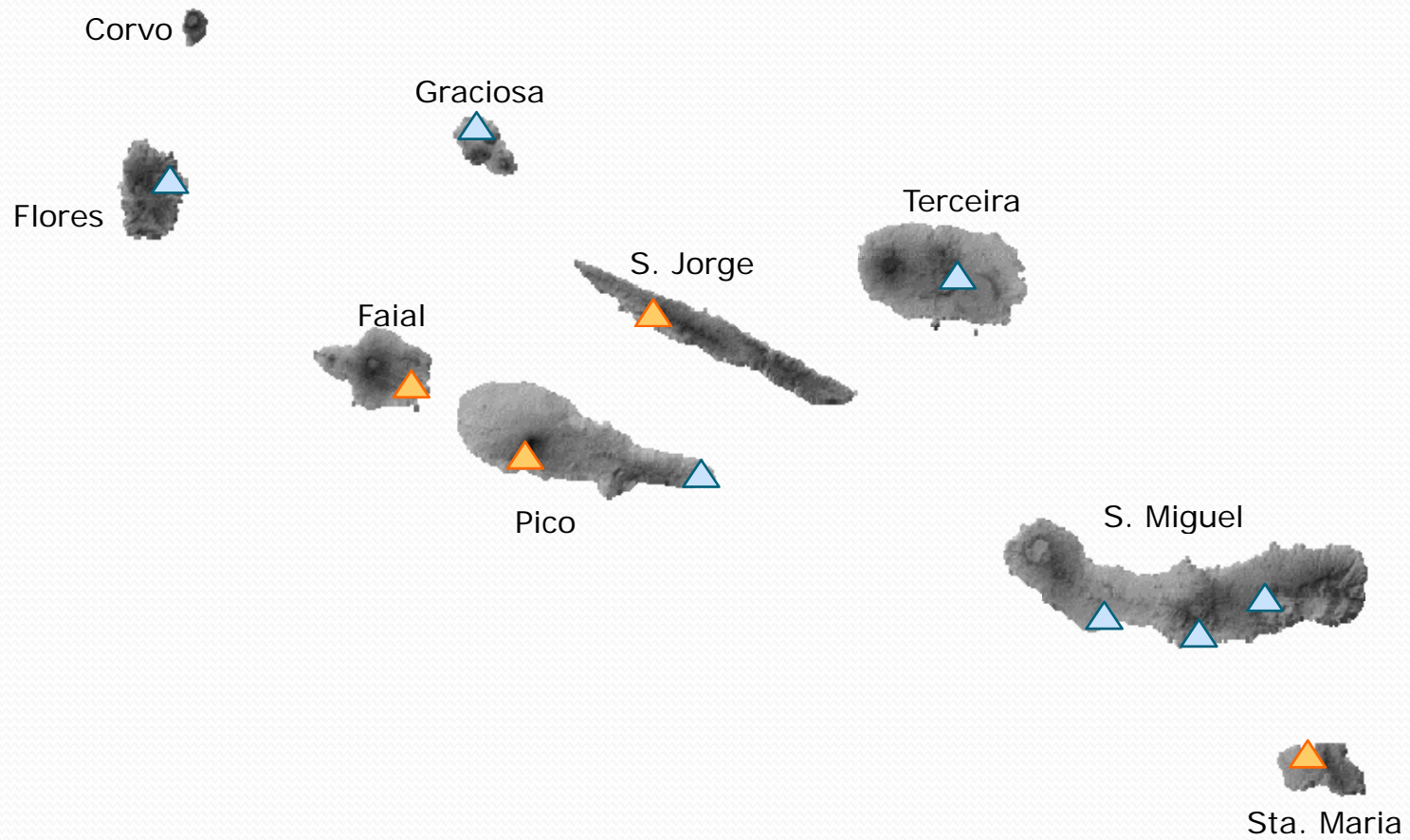


Flores (FRLS)

- Protocol with Instituto Geográfico Português
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK



Next Stations



Terra Pão (PTRP)

- Protocol with Science Faculty of Lisbon University
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK



Sta. Maria (SMAR)

- Protocol with Science Faculty of Lisbon University
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK



Faial(FAIA)

- RAA's Station
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK



S. Jorge (SJG1)

- Protocol with Science Faculty of Lisbon University
- Equipment:
 - Receiver Leica GRX 1200 GG Pro
 - Antennae Leica AT 504 GG
 - Signal: Code, L1 & L2
 - GPS & GLONASS
- Applications:
 - Post Processing
 - RTK





REPRAA on line

Post Processing Service

- Data selection, request and download from the website
- Data rates better then 5 sec should be asked directly to system administration.
- Computations service trough website



- Home**
- ↓ Station Coordinates
- ↓ Warnings
- ↓ Site overview
- ↓ RINEX Job Service
- **Computation Service**
- ↓ Configuration
- ↓ Results
- ↓ Statistics
- ↓ C.M. Vila Franca do Campo
- ↓ FCUL
- ↓ FCUP
- ↓ IGP
- ↓ Leica Geosystems

Computation Service

Upload up to 3 observation files for the position to be calculated. Please make sure that you only upload static observations. The files can be from different days but have to be for the same position. If uploading files with several positions in one file, the coordinate result will be calculated incorrectly. Please check data availability on the reference sites before uploading older observation files.

Please choose 3 reference sites to be used for calculation:

Choose sites automatically:

Select site(s) from list:

Select sites in map:

Note: turn off pop-up blockers

Please note that the maximum allowed distance from the reference sites to the rover (in meters) is 50000

Upload observation file 1:

Upload observation file 2:

Upload observation file 3:

Choose computation precision:

Computation precision:

Or enter computation precision values manually:

Enter mm here:





Enter ppm here:

The automatically computed results are only to be used for reference purposes. Your data provider and Leica Geosystems AG provide no guarantee regarding the correctness of this automatic computation (both its methodology and result) and shall not be liable for any loss, damage or injury (including but not limited to consequential loss, damage or injury) however caused, which may arise directly or indirectly from the use or application of this automatic computation result. Please verify the automatic computation result before use.

Post Processing Service

- Data selection, request and download from the website
- Data rates better then 5 sec should be asked directly to system administration.
- Computations service trough website
- Warnings to all users, communicating problems, maitnenance and updates

REPRAA - Windows Internet Explorer
 http://www.repraa.azores.gov.pt/SpiderWeb/firmIndex.aspx

Marlene Antunes as Admin

[Site overview](#) | [RINEX Job Service](#) | [Computations](#) | [Configuration](#) | [Results](#) | [Statistics](#) | [About](#) | [Logout](#)

SpiderWeb

Home

- ↓ Station Coordinates
- **Warnings**
- ↓ Site overview
- ↓ RINEX Job Service
- ↓ Computation Service
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- ↓ Statistics
- ↓ C.M. Vila Franca do Campo
- ↓ FCUL
- ↓ FCUP
- ↓ IGP
- ↓ Leica Geosystems

[09/02/2010 - 12:00]	Piedade's station is down. We will try to resume the service as soon as possible.
[06/01/2010 - 15:00]	Terceira's permanet station has been included in EPN (EUREF Permanent Network)
[16/11/2009 - 17:00]	<p>Tomorrow, the 17nd November, in the afternoon, the system will have some maintenance operations and so the services will be temporarily out.</p> <p>We will try to be as quick as possible.</p>
[04/08/2009 - 12:15]	Ponta Delgada's station is down. We will try to resume the service as soon as possible.
[04/08/2009 - 12:15]	Terceira's station is down due a power problem.

Concluído Intranet Local 100%



Post Processing Service

- Data selection, request and download from the website
- Data rates better than 5 sec should be asked directly to system administration.
- Computations service through website
- Warnings to all users, communicating problems, maintenance and updates
- Access to all stations coordinates



REPRAA - Microsoft Internet Explorer

Eicheiro Editar Ver Favoritos Ferramentas Ajuda

Retroceder [back] [forward] [stop] [refresh] [home] [search] Procurar [star] Favoritos [recycle] [mail] [print] [connect]

Endereço <http://localhost/spiderweb/frmIndex.aspx> Ir para Hiperligações



Visualizador

EN | PT

SpiderWeb

Início

- ↓ Avisos
- **Coordenadas**
- ↓ Ver Estação
- ↓ Registo
- ↓ C.M. Vila Franca do Campo
- ↓ FCUL
- ↓ FCUP
- ↓ IGP
- ↓ Leica Geosystems

Login

Utilizador:*

Palavra-Passe:*

Lembrar

*Campo obrigatório

Login

ESTAÇÃO PERMANENTE DA PIEDADE

Coordenadas resultantes da ligação por GPS à rede geodésica da ilha

ITRF93/WGS84

Geodésica Elipsoidais - BPA

Latitude (° ' ")	Longitude (° ' ")	Altitude (m)
38 24 49,73574 N	28 01 56,85522 W	72.044

Geodésicas Cartesianas - BPA

X (m)	Y (m)	Z (m)
4417004.956	-2351773.985	3941582.529

Datum Base SW

Geodésicas

Latitude (° ' ")	Longitude (° ' ")
38 24 50.11587 N	28 02 00,86603 W

Cartográficas UTM

E (m)	P (m)
409762.224	4252318.783

Altitude Ortométrica (m)

14.228	BPA
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CFA - Centro de Fase da Antena

BPA - Base da antena



RTK Service

- Free service- only registry in website needed.
- Data Format
 - Leica Equipment –Leica Binary data
 - All Equipment:
 - GPS –RTCM v2.3
 - GPS+GLONASS –RTCM v3

RTK Service

- Operation Mode:
 - Single Base Station
 - Manual selection of reference station
 - Automatic selection of reference station
- RTK Network
 - MAX
 - iMAX



Obrigada

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