

Validation of seismological data from volcanological and seismological French observatories of the Institut de Physique du Globe de Paris (OVSG, OVSM and OVPF)

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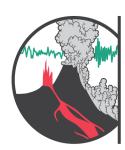
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)bservatoire volcanologique

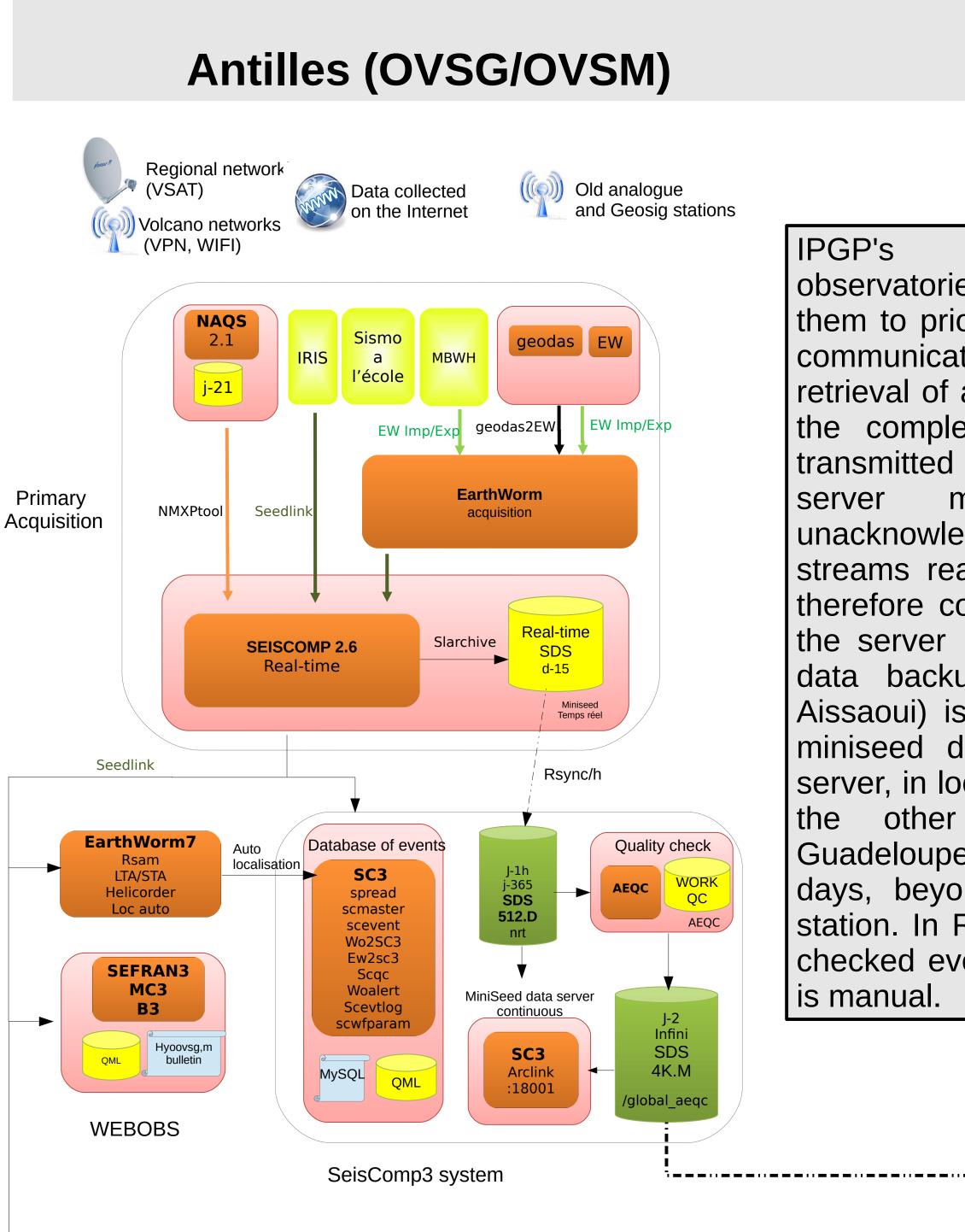


Observatoire volcanologique



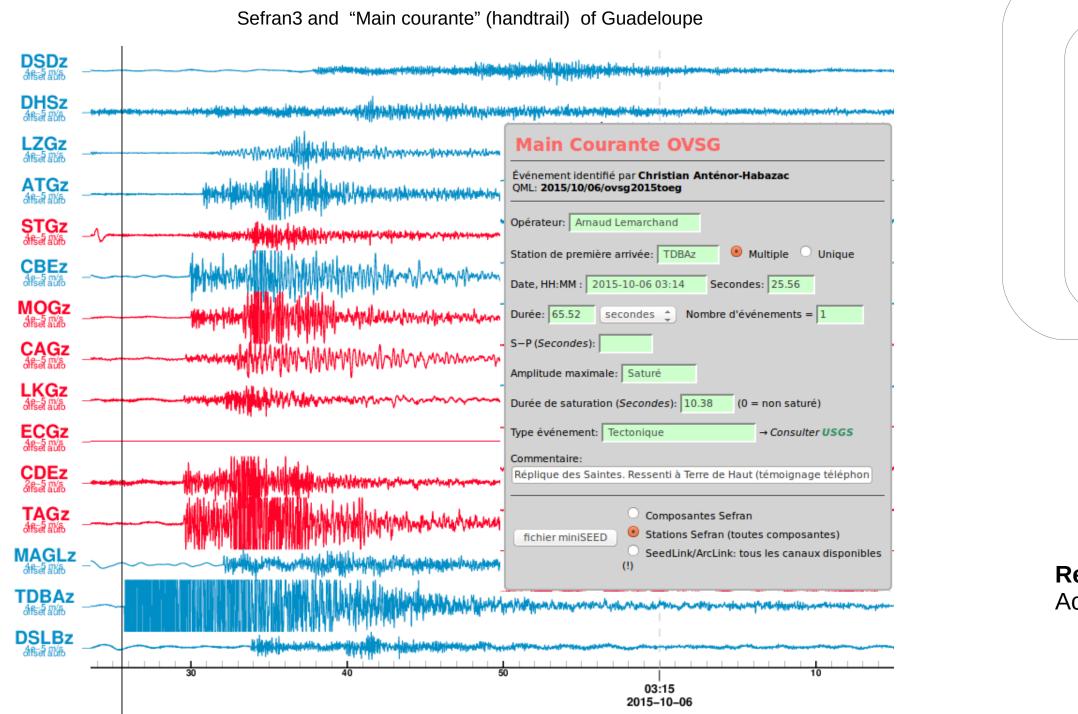


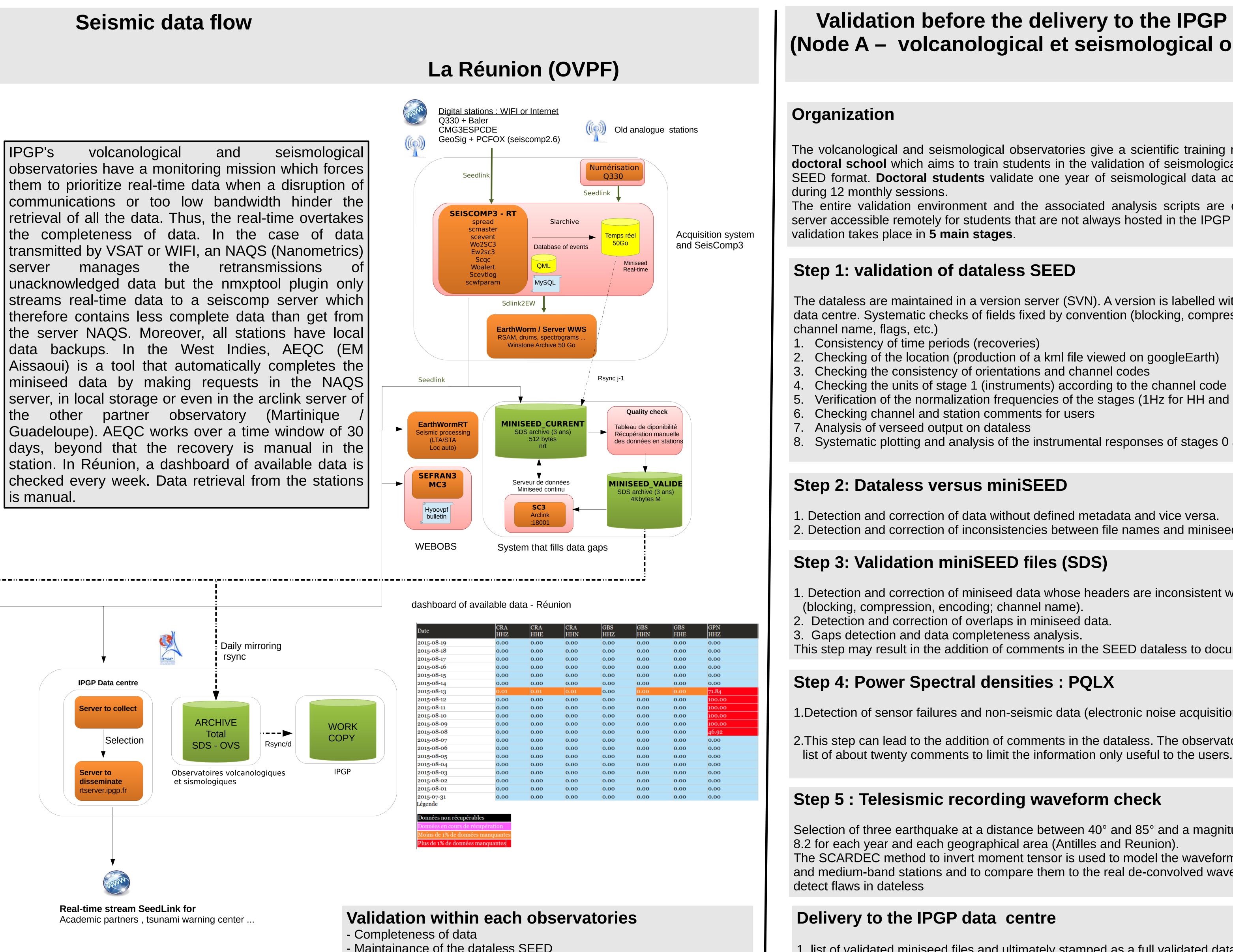
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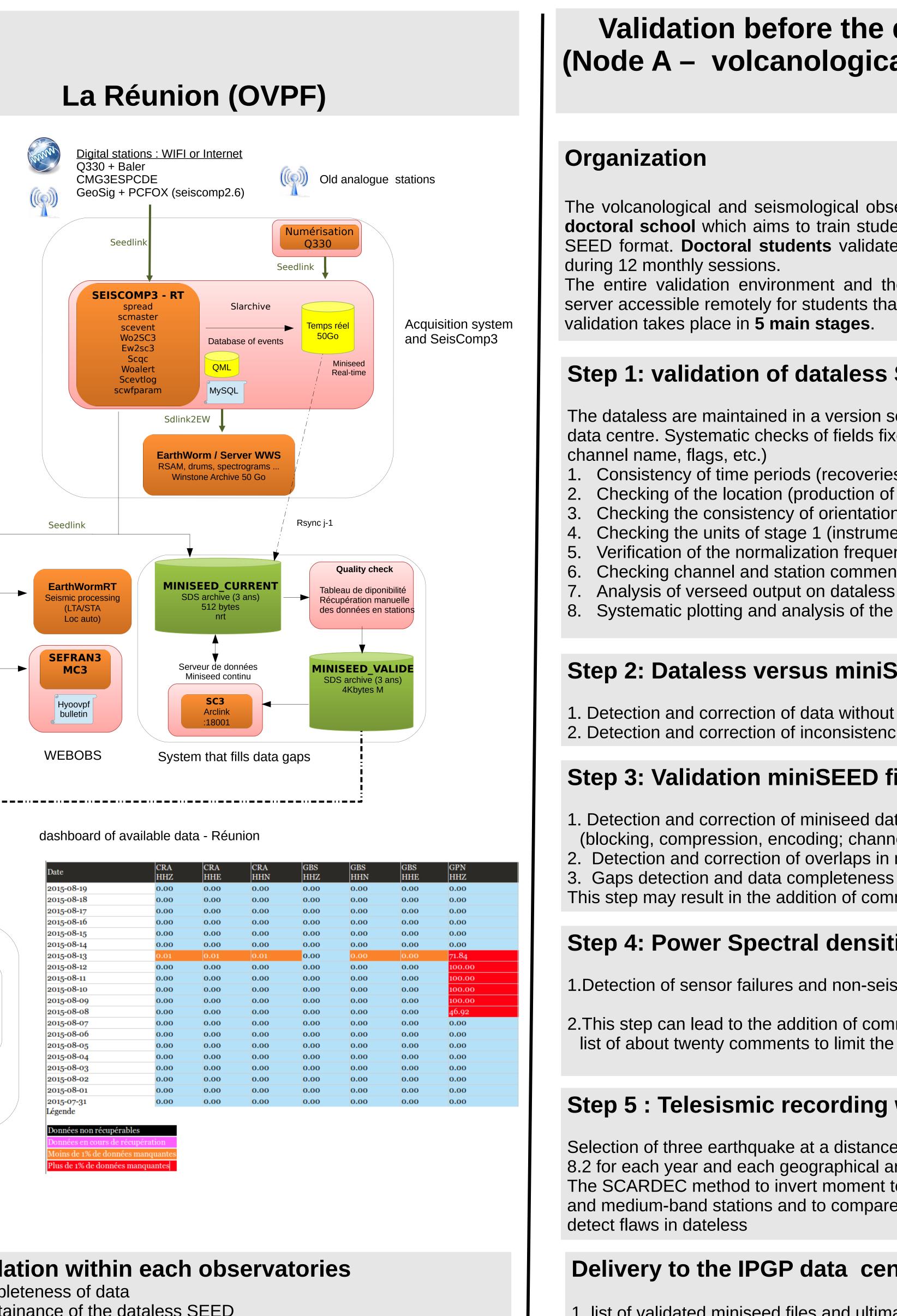
Disks Local

Disks SAN ou NAS





Validation of seismological data from volcanological and seismological **French observatories** (RESIF October 2015)



- Maintainance of the dataless SEED
- Mirroring in Paris of data structure (SDS) of miniseed stamped as an
- intermediate quality (M)

- 1. list of validated miniseed files and ultimately stamped as a full validated data (Q)
- 2. a validated and labelled dataless in the SVN on the date of delivery
- 3. a document summarizing the corrections made during delivery
- 4. the logs of data verification and correction scripts



Validation before the delivery to the IPGP data center (Node A – volcanological et seismological observatories)

The volcanological and seismological observatories give a scientific training module to the STEPUP doctoral school which aims to train students in the validation of seismological data and metadata in SEED format. Doctoral students validate one year of seismological data acquired in observatories

The entire validation environment and the associated analysis scripts are centralized on a single server accessible remotely for students that are not always hosted in the IPGP (eg CEA students). The

The dataless are maintained in a version server (SVN). A version is labelled with each delivery to the data centre. Systematic checks of fields fixed by convention (blocking, compression, encoding,

Verification of the normalization frequencies of the stages (1Hz for HH and 10Hz for EH)

Systematic plotting and analysis of the instrumental responses of stages 0 and 1

2. Detection and correction of inconsistencies between file names and miniseed headers

1. Detection and correction of miniseed data whose headers are inconsistent with the dataless This step may result in the addition of comments in the SEED dataless to document the data gaps.

1.Detection of sensor failures and non-seismic data (electronic noise acquisition) in the data spectrum.

2. This step can lead to the addition of comments in the dataless. The observatories had a predefined

Selection of three earthquake at a distance between 40° and 85° and a magnitude between 6.8 and The SCARDEC method to invert moment tensor is used to model the waveforms on the broad-band and medium-band stations and to compare them to the real de-convolved waveform. Comparisons