

Mediterranean Very Broadband Seismographic Network



MEDNET STATUS REPORT

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Mediterranean Very Broadband Seismographic Network



Now:



19 stations, almost all in real time



Many International Institutions involved



MedNet is a critical part of the ORFEUS-VEBSN
(Virtual European Broad Band Seismographic Network)



Both research and monitoring task covered



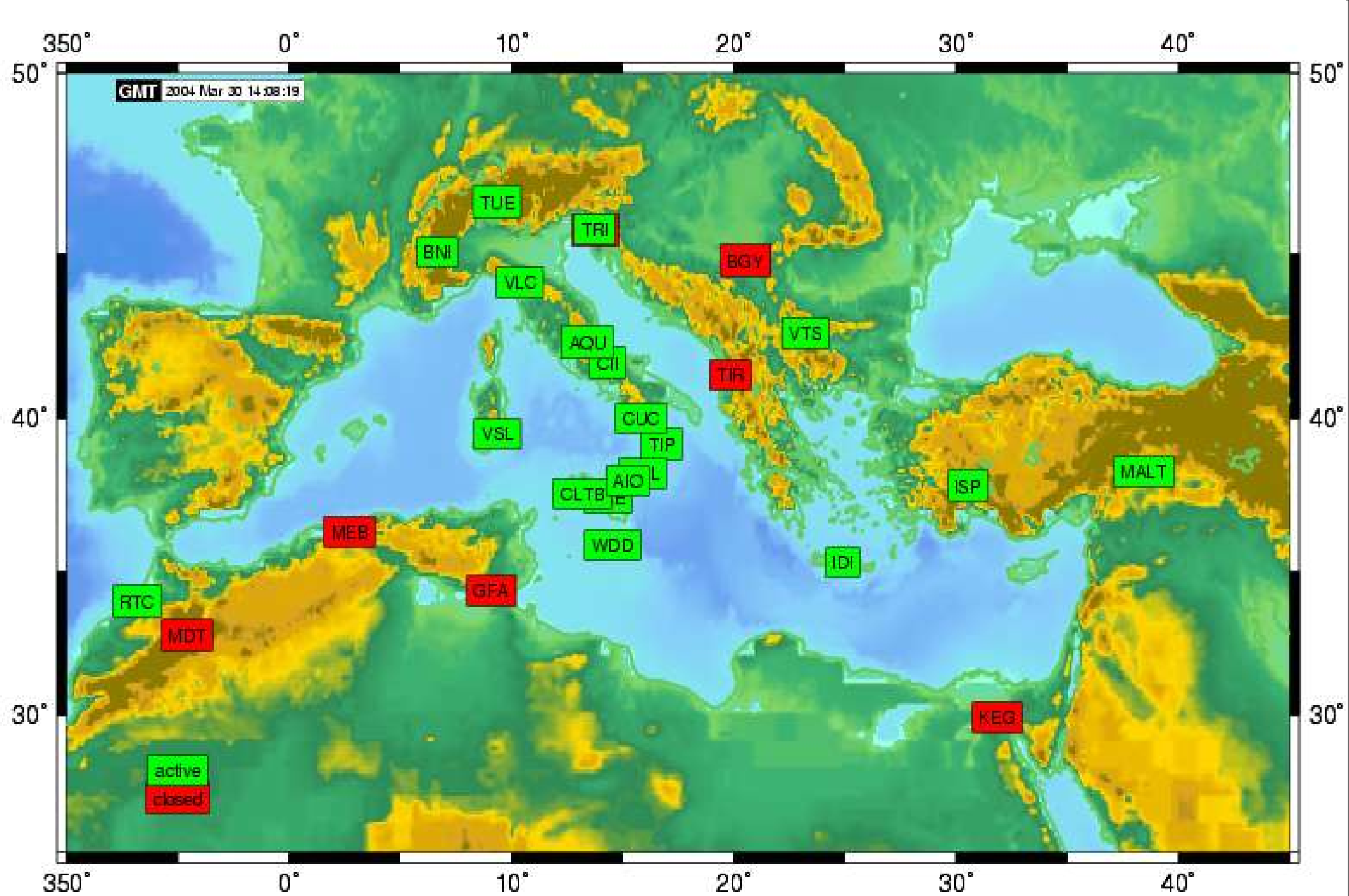
Relational database of more than 10 years of
broad band continuous data



Automatic manager of user data requests

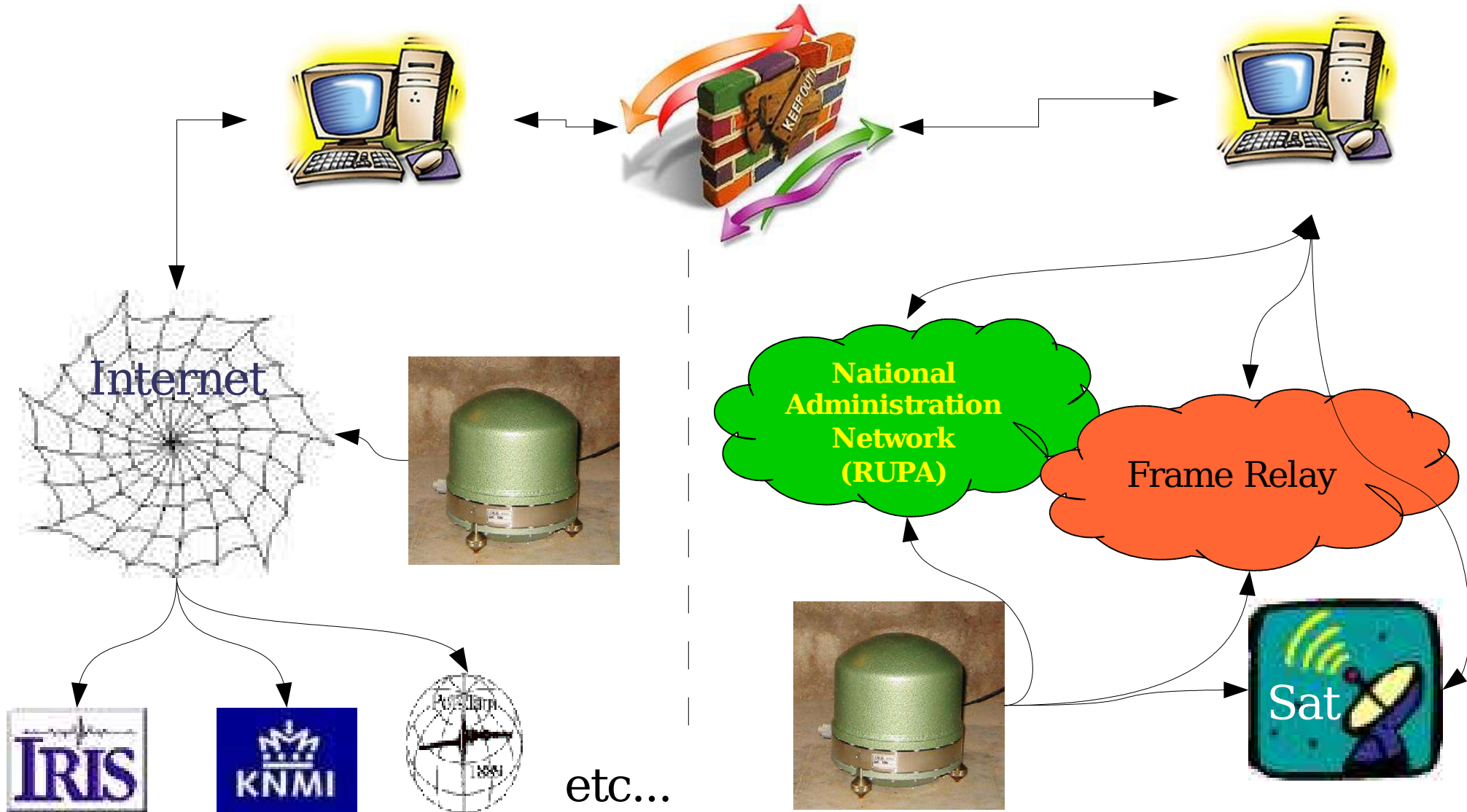


Routine determinations of ML and RCMT
(Regional Centroid Moment Tensors)

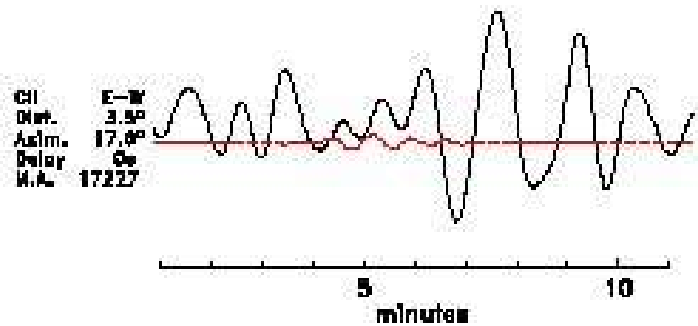
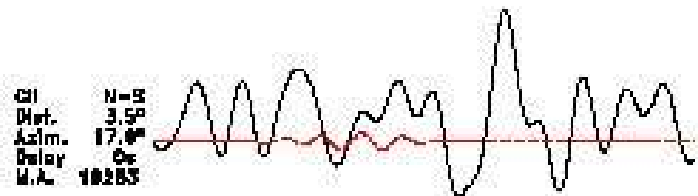


Automatically updated on the web

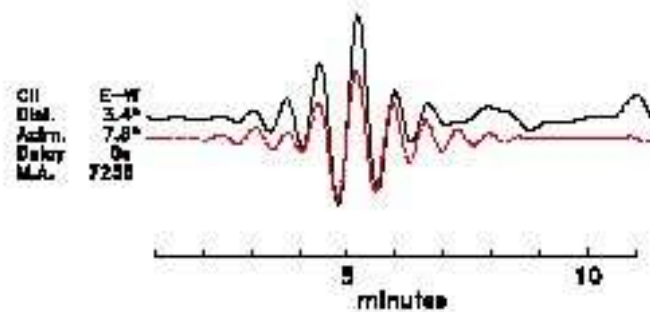
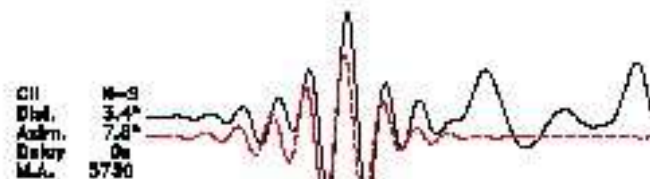
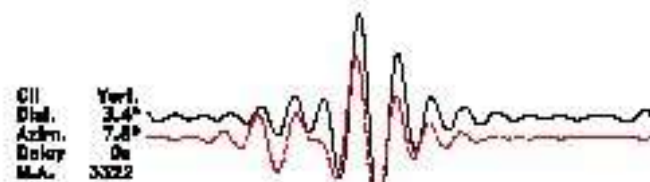
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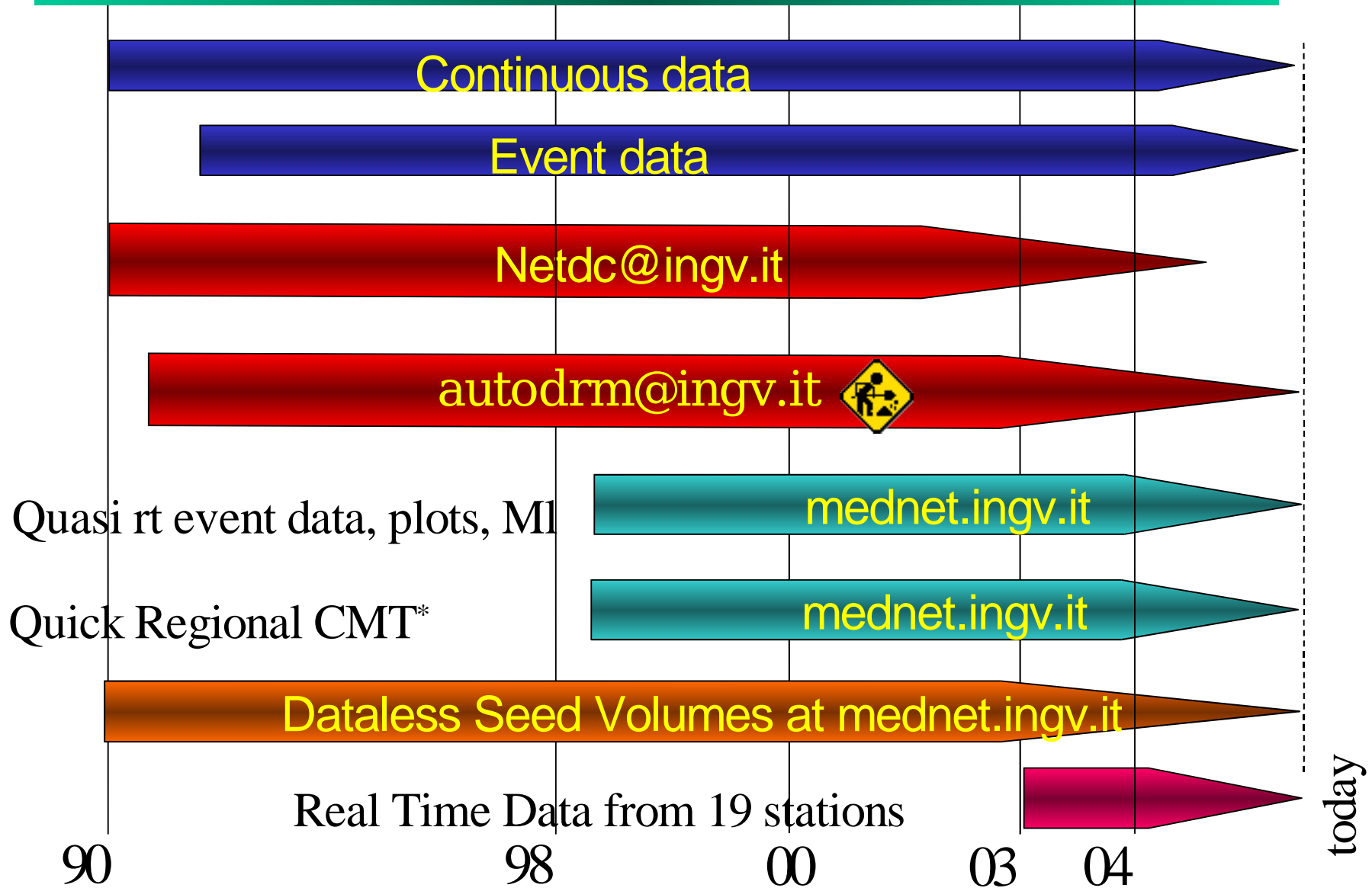
98/01/17 12:29
Northern Sicily Mw=4.8



02/09/27 06:07
Northern Sicily Mw=5.1



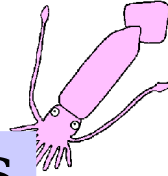
DATA



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SQUID: a simple quality information display



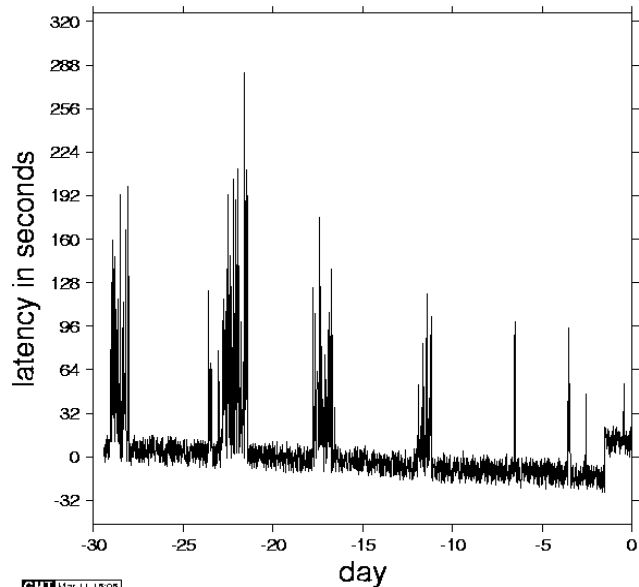
Thu Mar 11 15:15:01 MET 2004
 AQU MN
 present_dataflow_status: **ok**
 last_connection_loss: Mar 10 12:00:04
 last_latency_at_discovery: 5080 seconds
 last time drift was: -1.02095 sec
 data_flow_to_rnsc: **active**

- General status
- Data flow
- Latency
- Clock drift
- Mass position
- Spectra

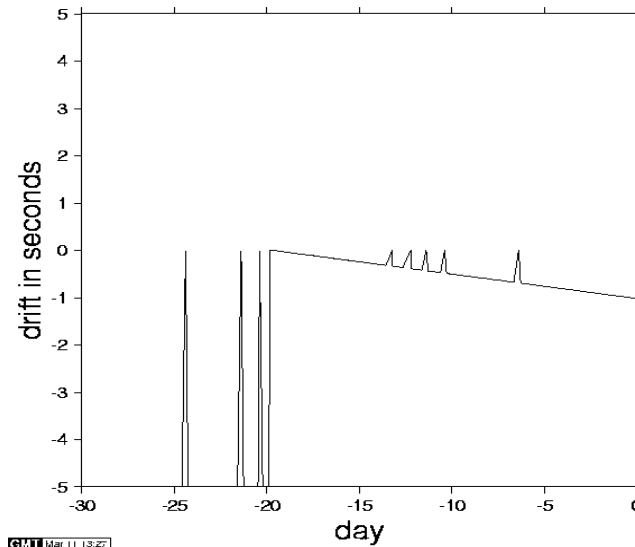
Noise levels (PSD) in decibels

Station	100s	20s	10s	1s	0.2s
AQU BHE	-142	-149	-151	-999	-999
AQU BHN	-999	-143	-154	-999	-999
AQU BHZ	-999	-144	-154	-999	-999
BNI BHE	-154	-143	-152	-153	-161
BNI BHN	-150	-144	-152	-150	-160
BNI BHZ	-178	-141	-150	-149	-162
CEL BHE	-174	-170	-166	-152	-141
CEL BHN	-152	-144	-155	-140	-140
CEL BHZ	-155	-146	-138	-143	-140
CII BHE	-144	-135	-144	-140	-146
CII BHN	-141	-137	-144	-138	-148
CII BHZ	-175	-139	-152	-143	-149

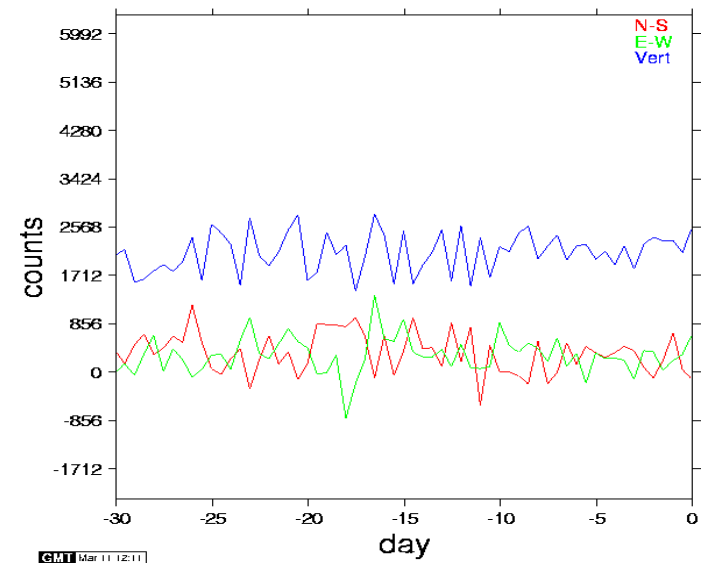
Latency monitor for TUE



Drift monitor for AQU



Counts monitor for VLC

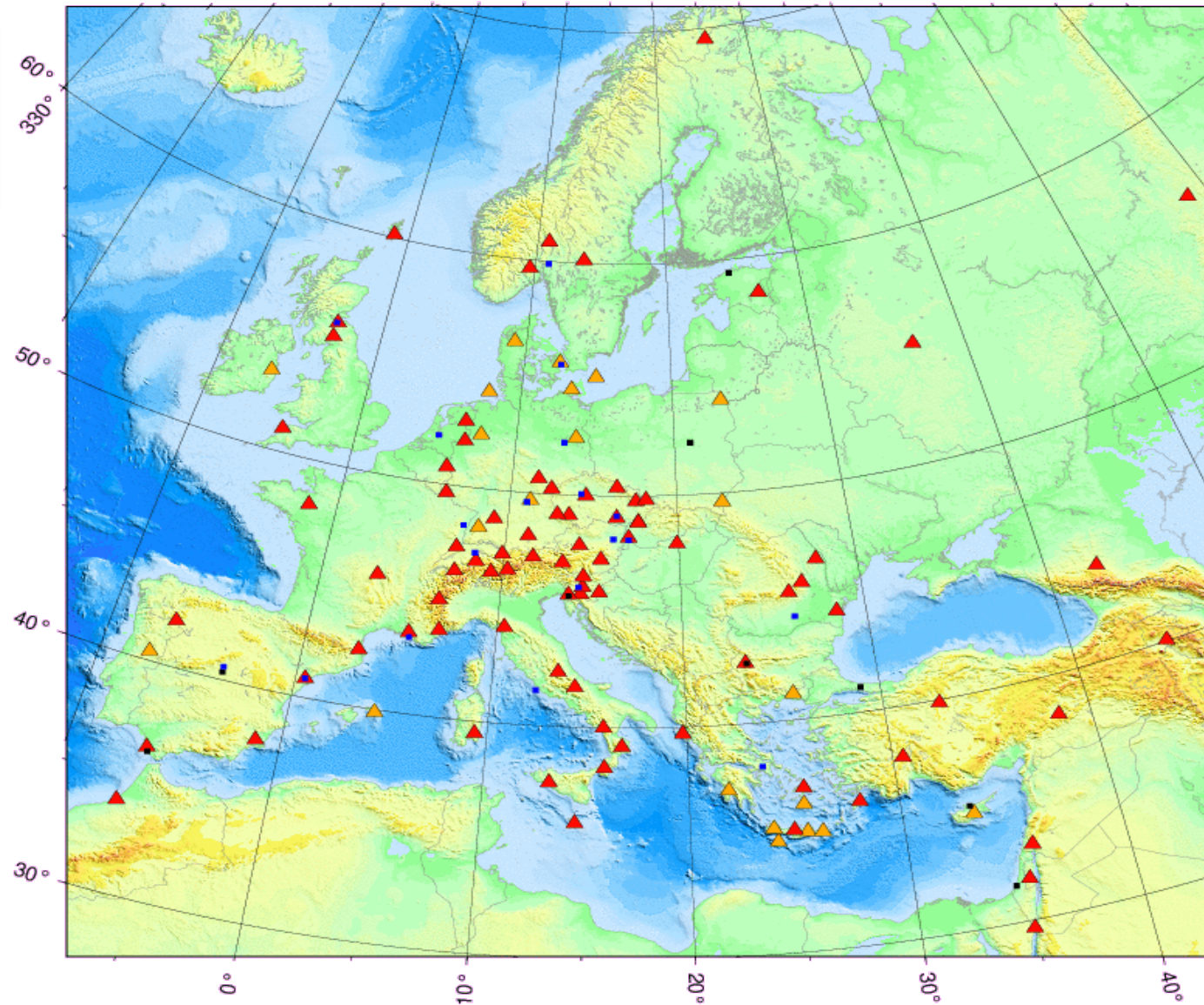


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VEBSN

As part of the ORFEUS consortium the MedNet stations contribute to create the VEBSN (Virtual European Broadband Seismic Network) that counts more than 100 stations all around Europe



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Next:



Reopening cooperations and stations in Northern Africa



Improving cooperations in the Balkans, with new stations



Reinforcing ORFEUS-VEBSN



Developing an early warning system