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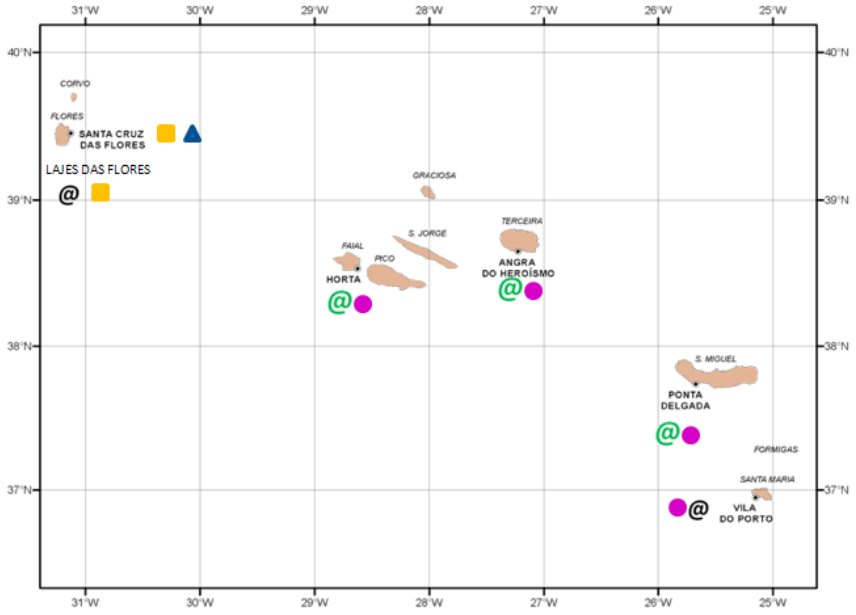
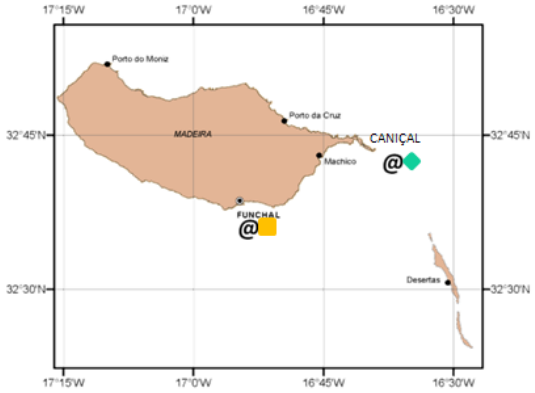
OCEANOGRAPHY DIVISION

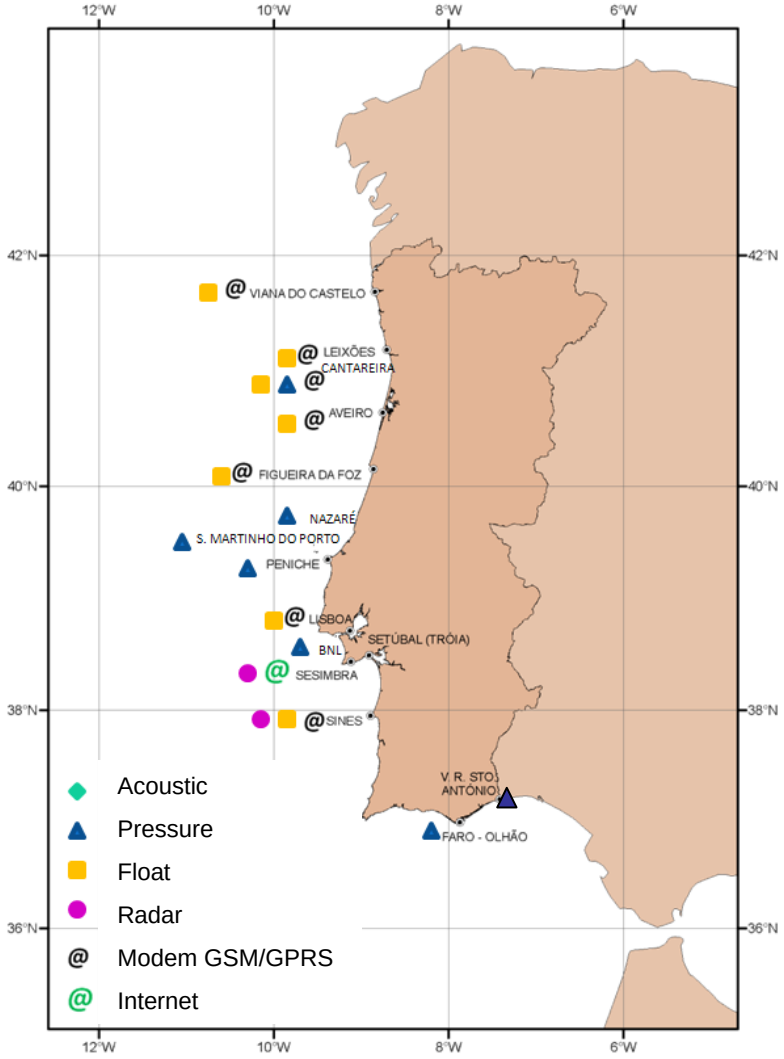
TIDES SECTION

STEN TSN Joana Reis
ASSP Leonor Martins

Portuguese Tidal Network







Conhecimento do Oceano

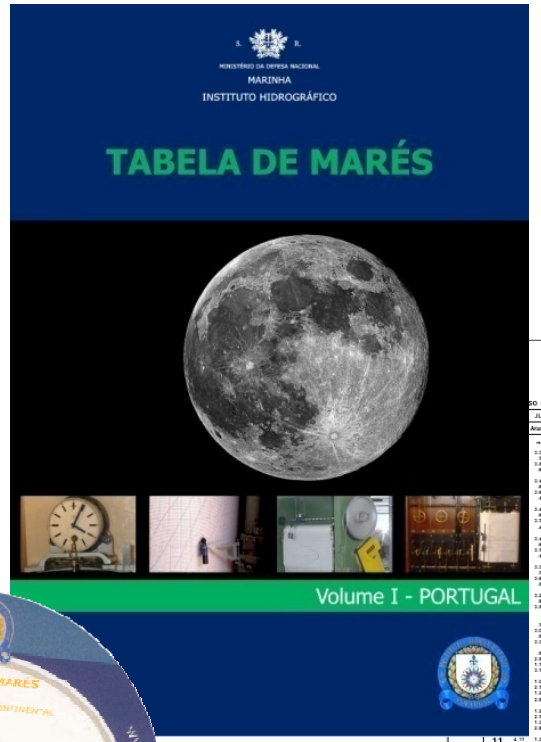
Tide Tables

Tabela de Marés – Volume I:

- Continental Portugal
- Azores Archipelago
- Madeira Archipelago

Tabela de Marés – Volume II:

- Cabo Verde
- Guiné-Bissau
- S. Tomé e Príncipe
- Angola
- Moçambique
- Macau



Conhecimento do Oceano

Internacional Cooperation

- GLOSS (Global Sea Level Observing System)
  - Portuguese GLOSS stations: Funchal, Ponta Delgada, Santa Cruz das Flores, Cascais
- NEAMTWS (North Eastern Atlantic, Mediterranean and Connected Seas Tsunami Warning System)
  - Operational stations: Ponta Delgada, Cascais, Sesimbra, Sines, Lagos (connected to our NTWC)
  - Future stations: Leixões, Peniche, Madeira
- Angola, Porto Amboim
  - Meteorological and Oceanographic Survey, including deployment of 2 pressure tide gauges (1 just for hydrographic survey, 1 to record data for at least 1 year)
- Other PALOP (Portuguese Speaking African Countries)
  - Cooperation when needed or asked for.

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Ulla's filter

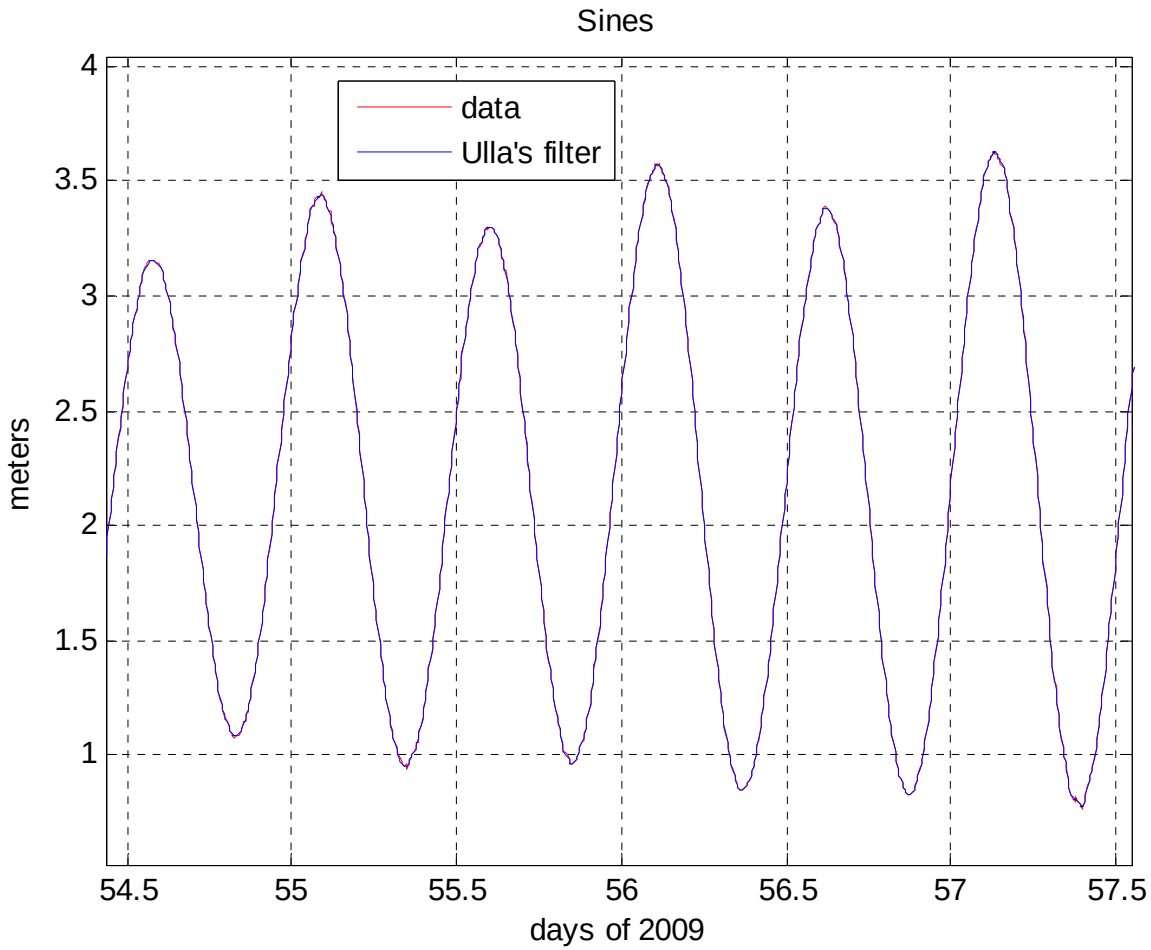
- It has been drawn for tidal data
  - At 6 minutes interval
  - Tide gauge using a stilling well
    (which means very low noise)

- It's a weighted average of eleven values:
  - The weights are:

    -1 -5 -5 20 70 98 70 20 -5 -5 -1

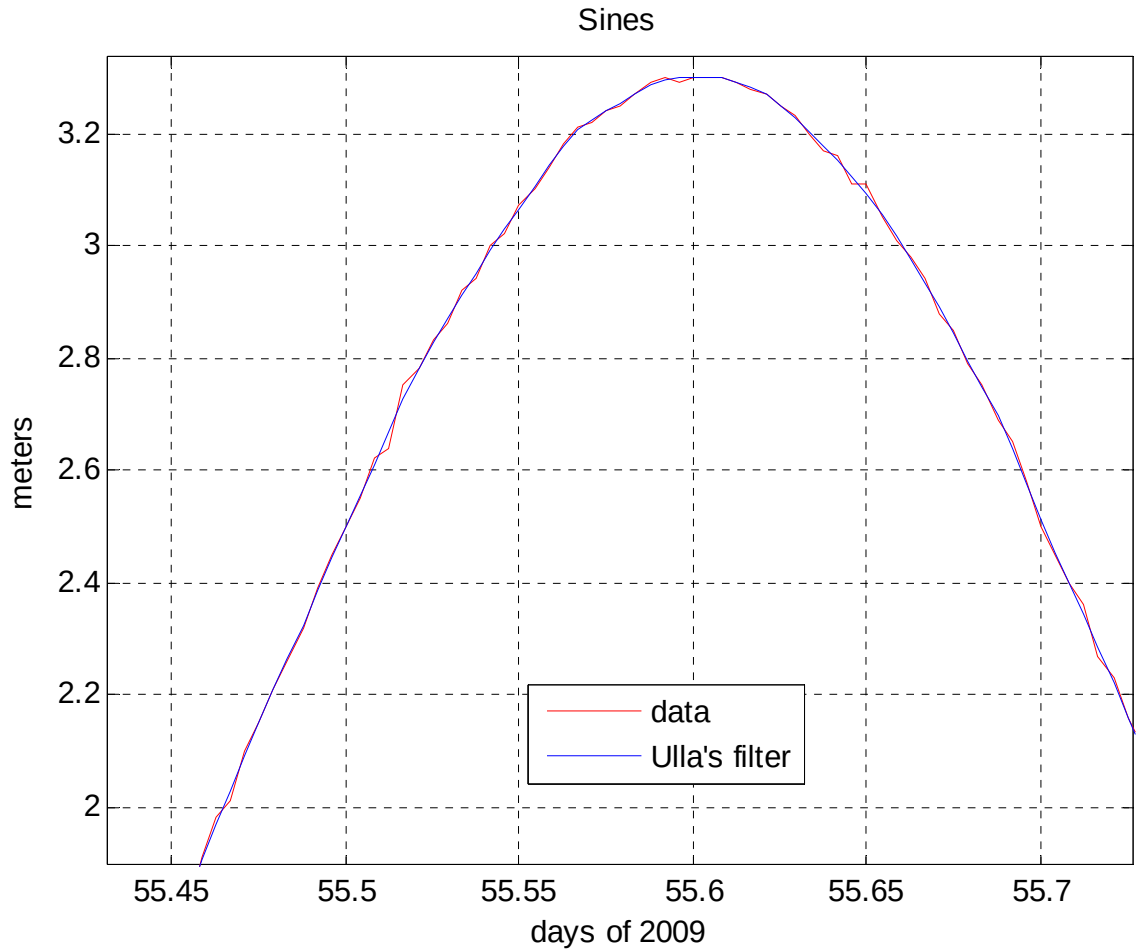
When it works

When there is a stilling well



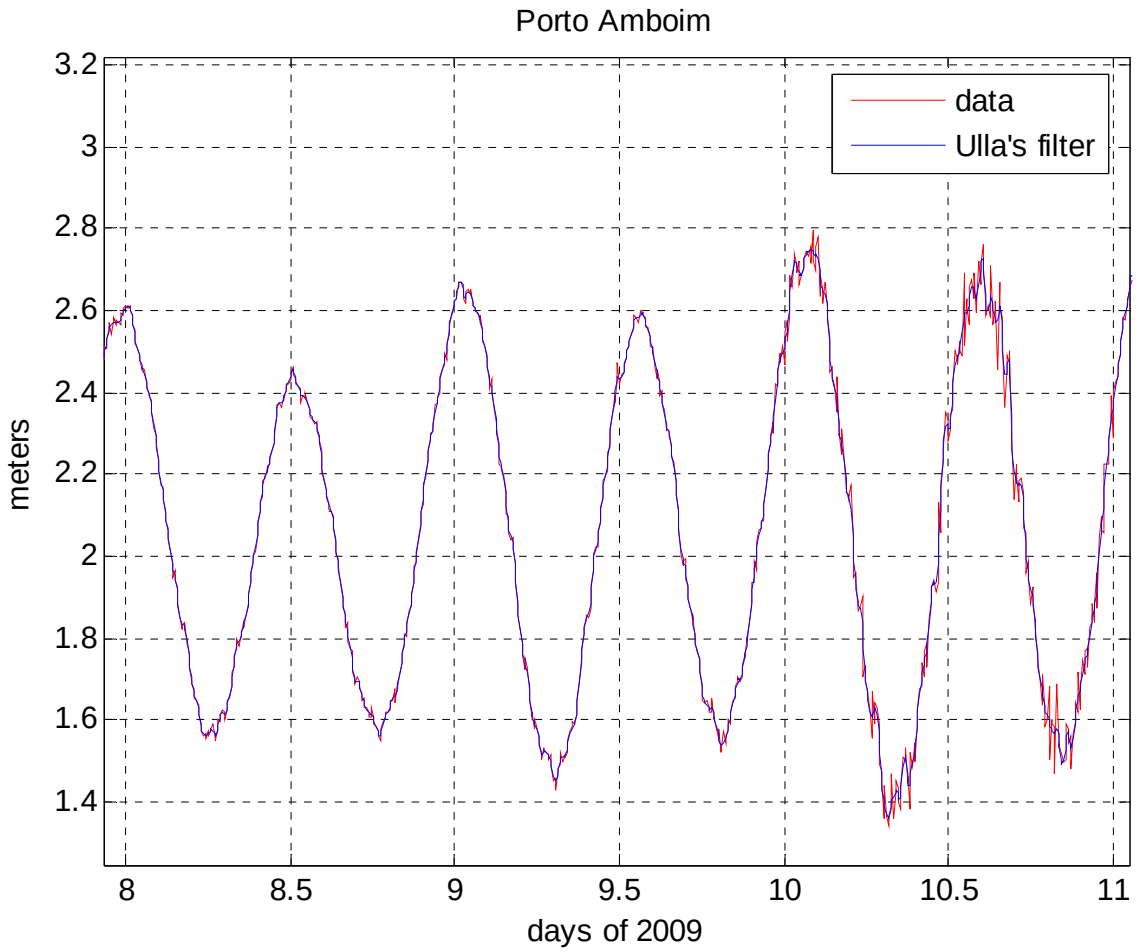
When it works

An almost bad situation



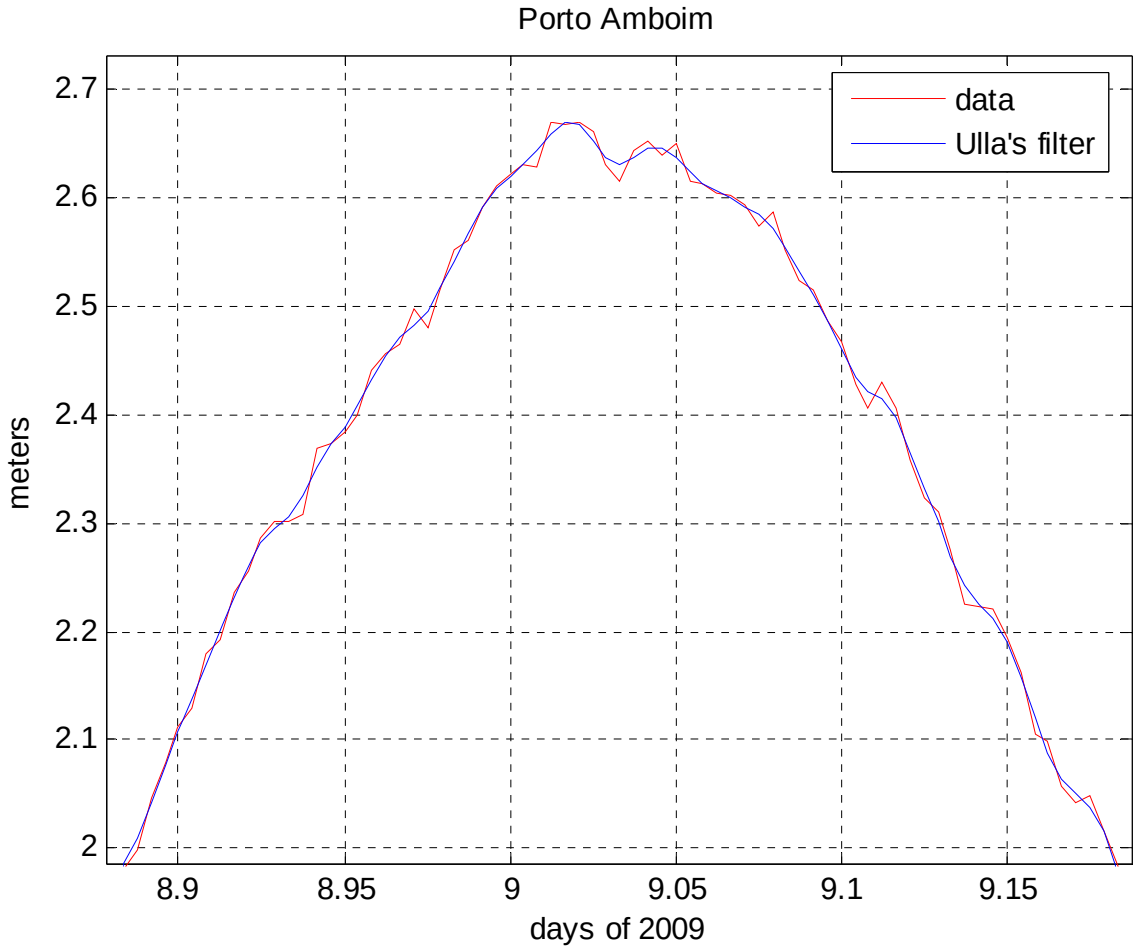
When it doesn't work

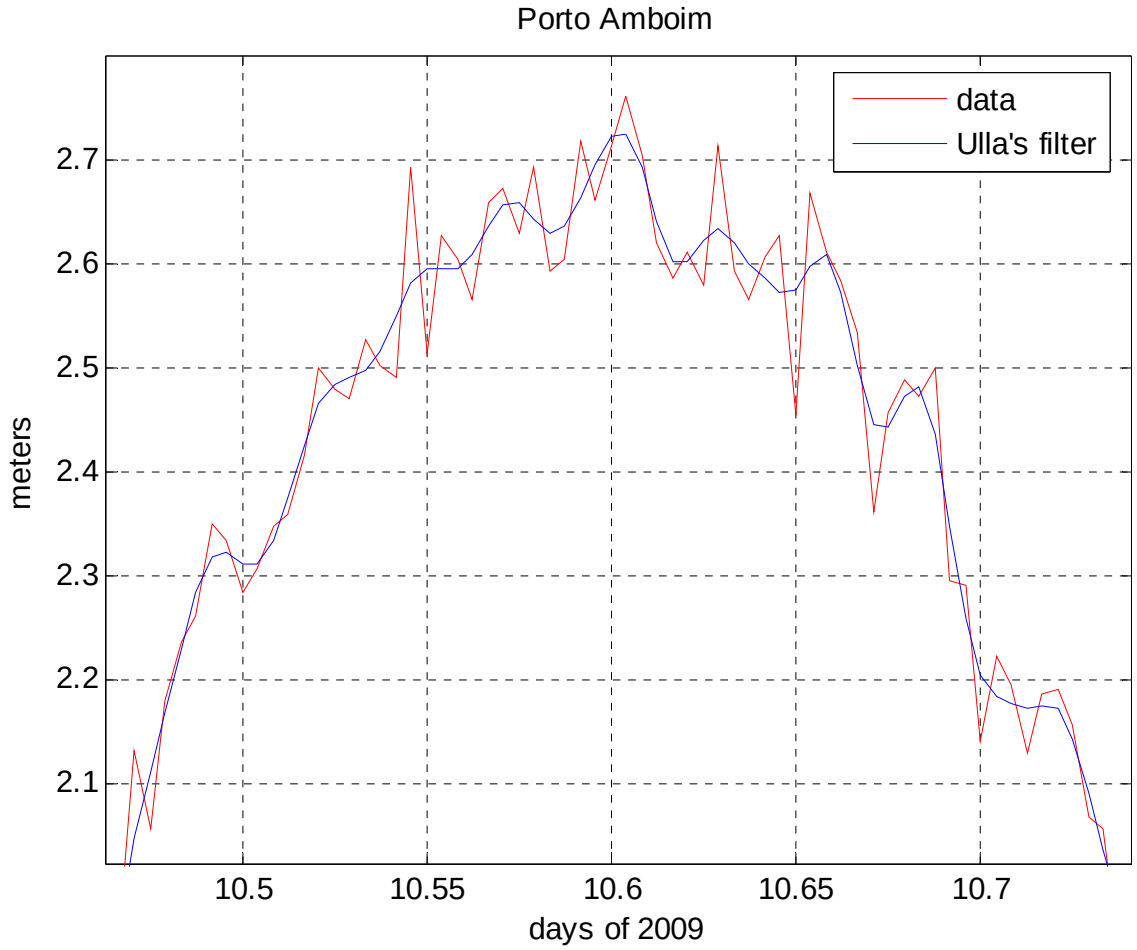
When there is **no** stilling well



When it doesn't work

A "good" situation



When it doesn't work

A "bad" situation