



# SWE Services

# gvSIG Sensors

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# What is gvSIG?

- Desktop GIS/SDI client (WMS, WFS(-T), WCS, CSW,...)
- Open-source (GPL)
- Funded by Regional Gov. of Valencia & U.E.
- Vector & Raster Support
- Integrated with Sextante (200+ geoprocessing functions)
- Translated into 20+ languages
- Mailing lists: 3000+ users
- 75.000 downloads
- <http://www.gvsig.org>
- <http://www.gvsig.gva.es>



# What is gvSIG Mobile?

- **Mobile GIS/SDI** client (WMS, WFS(-T), WCS, CSW,...)
- Open-source (**GPL**)
- Funded by Regional Gov. of Valencia & U.E.
- **Vector** (GML, SHP, KML,...) & **Raster** (ECW, JPEG, ...) Support
- GPS support
- Editing capabilities
- <http://www.gvsig.org>
- <http://www.gvsig.gva.es>



# Who are we?



[www.prodevelop.es](http://www.prodevelop.es)

- Spanish company
- 16 years GIS experience
- 70 + employees
- Member of gvSIG Project Steering Committee
- High focus on FOSS4G
- Members of gvSIG Association
- Members of Sextante Geospatial Services



# What are we presenting?

- Prototype of SOS client on gvSIG Desktop
- Prototype of SOS client on gvSIG Mobile

# Who has made it?

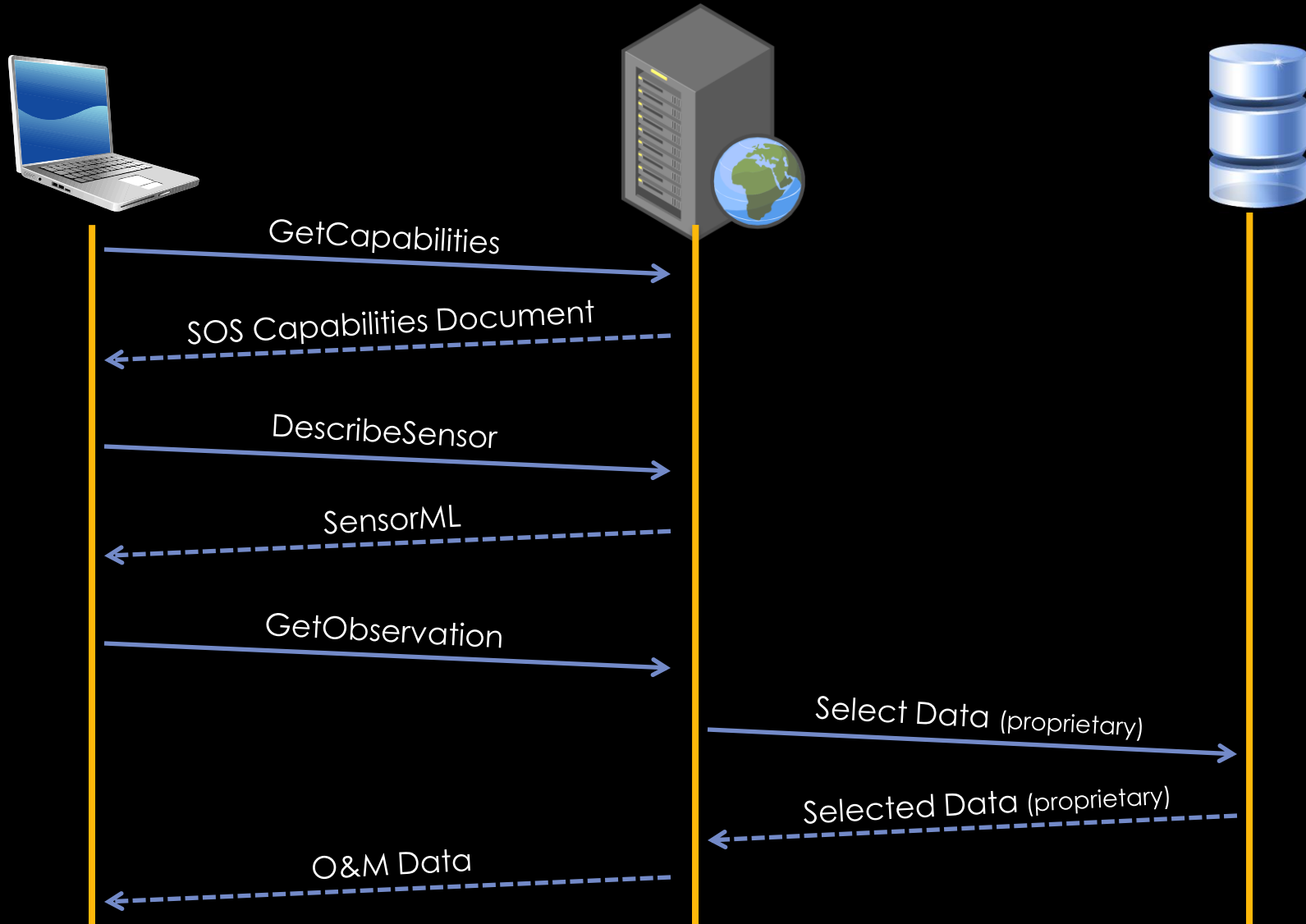


# Sensor Observation Service

- Part of OGC SWE (Sensor Web Enablement) family
- OGC Specification (1.0.0)
- Access to sensor description and its observations

- WFS ↔ SOS *Protocol*
- GML ↔ O&M *Data*
- - ↔ SensorML *Metadata*

# Sensor Observation Service





# What's been implemented?

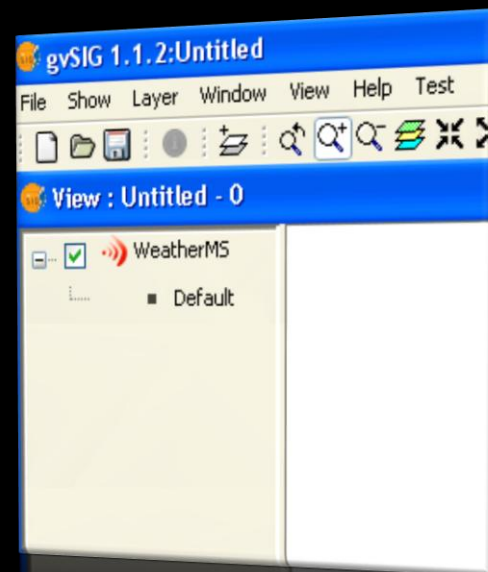
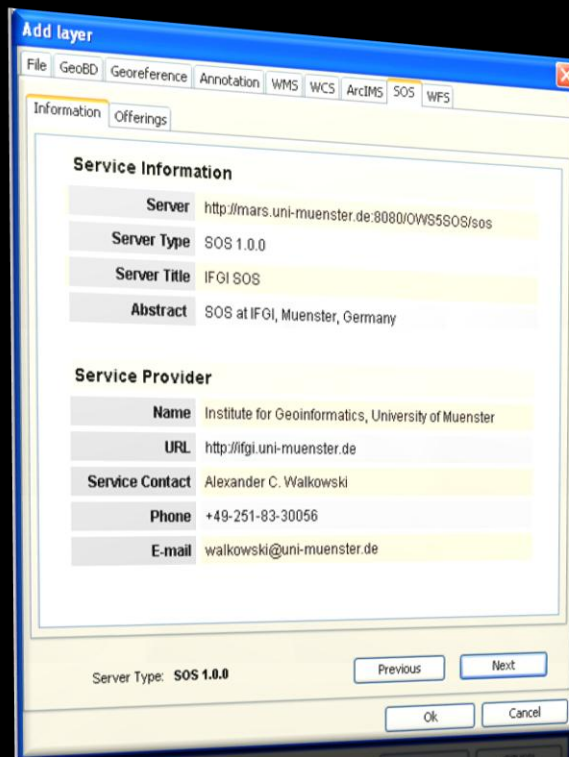
- SOS Core Operations Profile
  - `GetCapabilities`
  - `DescribeSensor`
  - `GetObservation`

# What has not been implemented?

- SOS Transaction Operations Profile
  - RegisterSensor
  - InsertObservation
- SOS Enhanced Operations Profile
  - GetResult
  - GetFeaturesOfInterest
  - Etc.

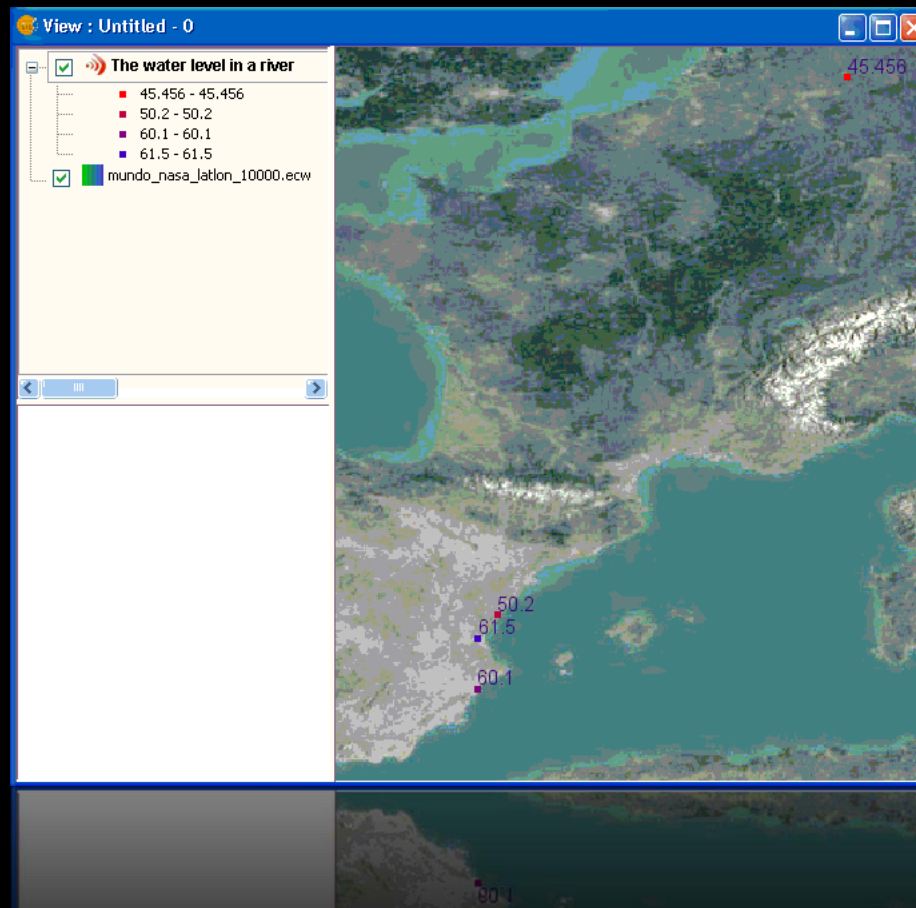
# gvSIG Desktop SOS client

- SOS offering as a new layer



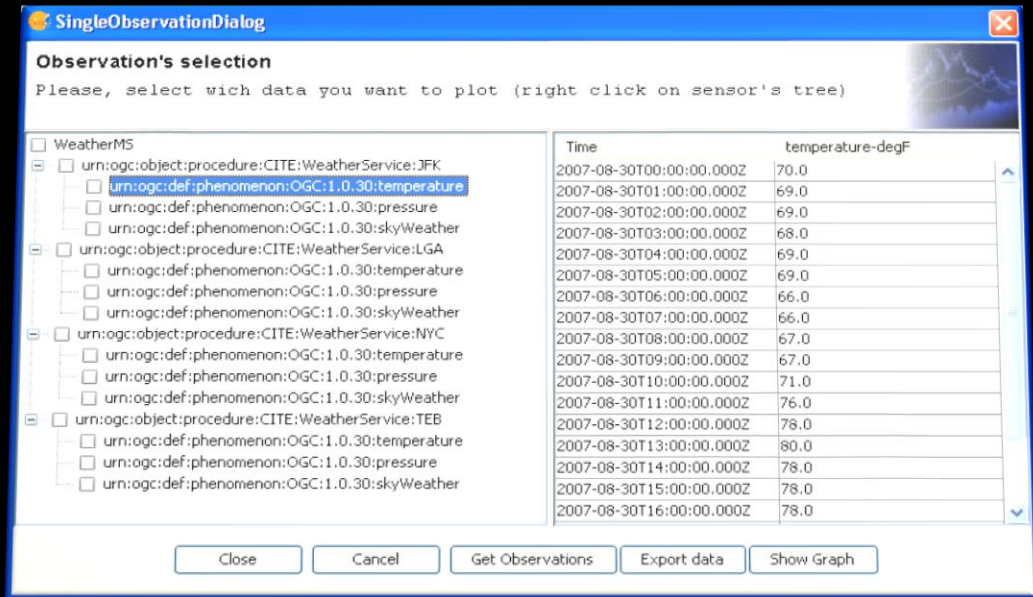
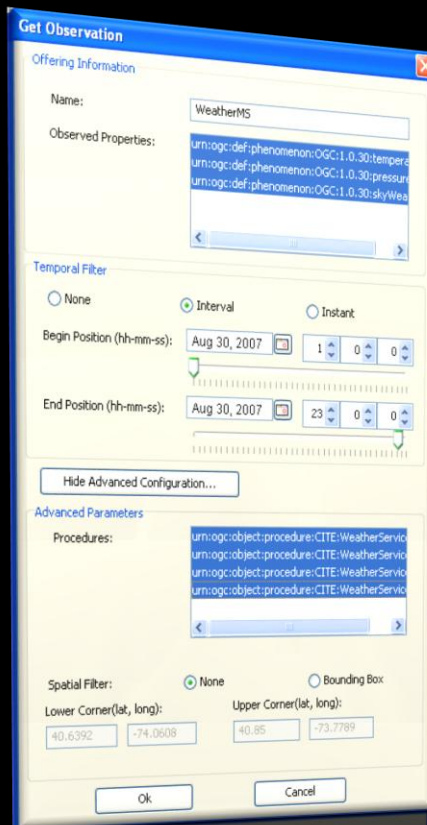
# gvSIG Desktop SOS client

- *Procedures (sensors) location*



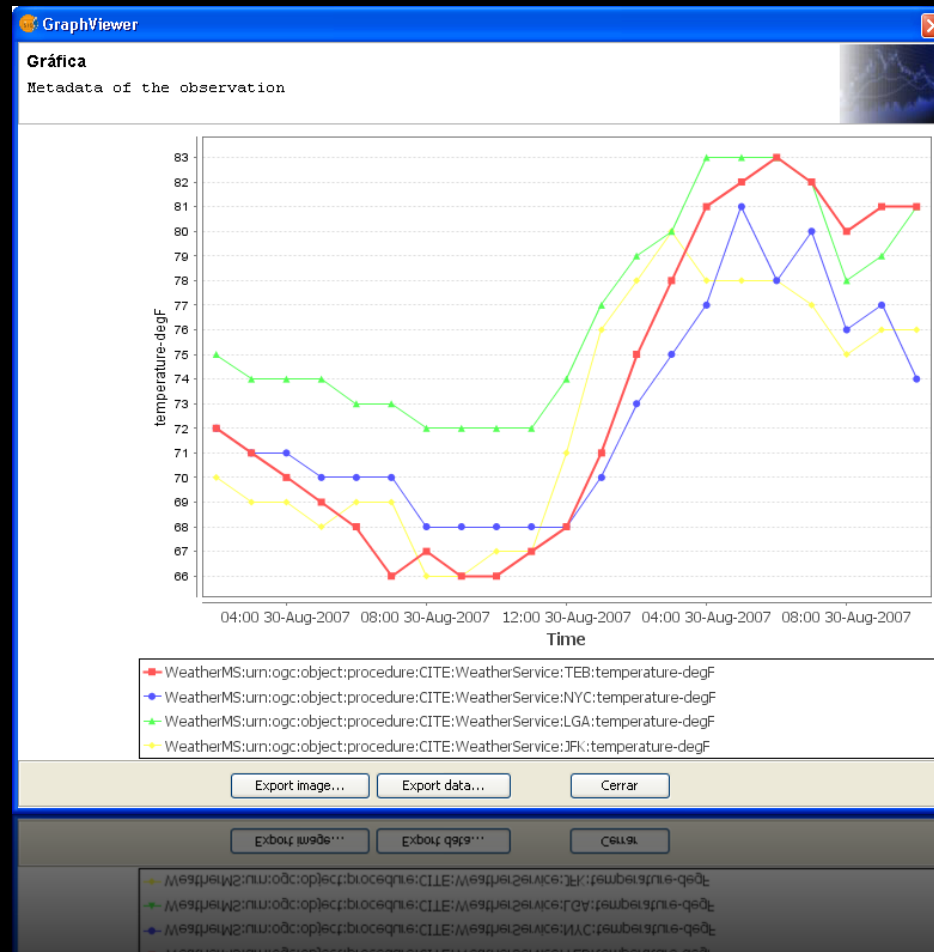
# gvSIG Desktop SOS client

- *Get Observations*



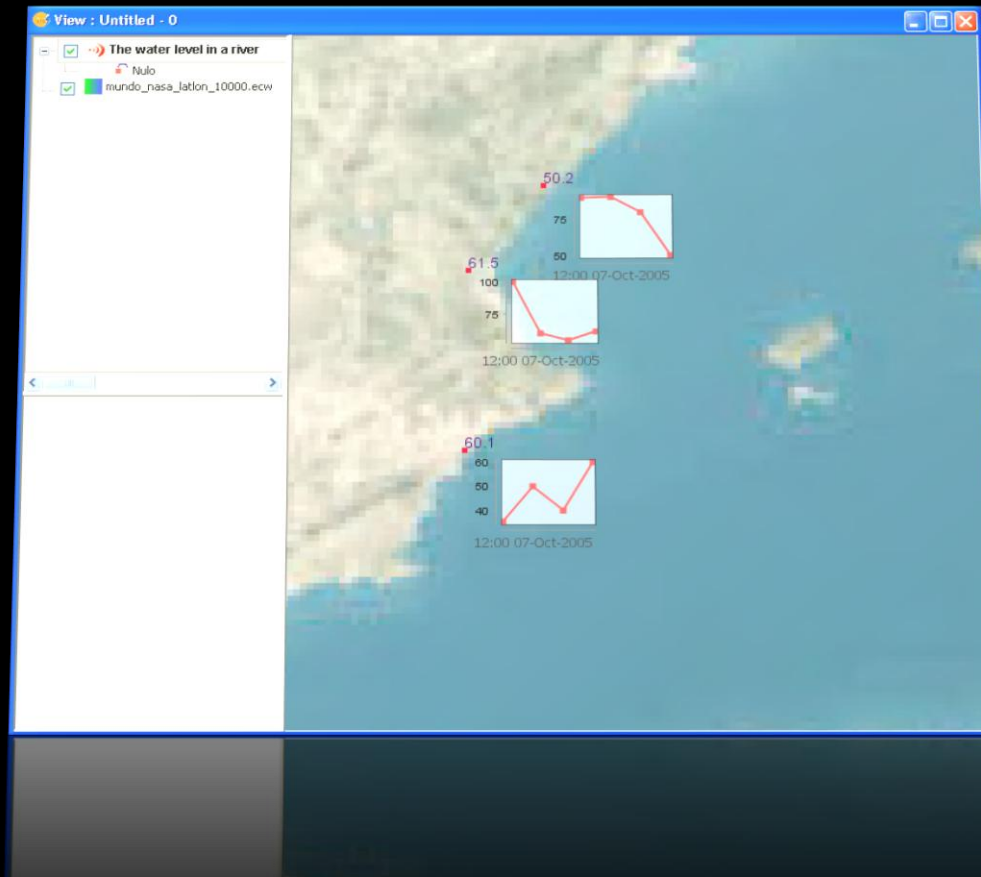
# gvSIG Desktop SOS client

- Graphics support



# gvSIG Desktop SOS client

- Graph Symbology

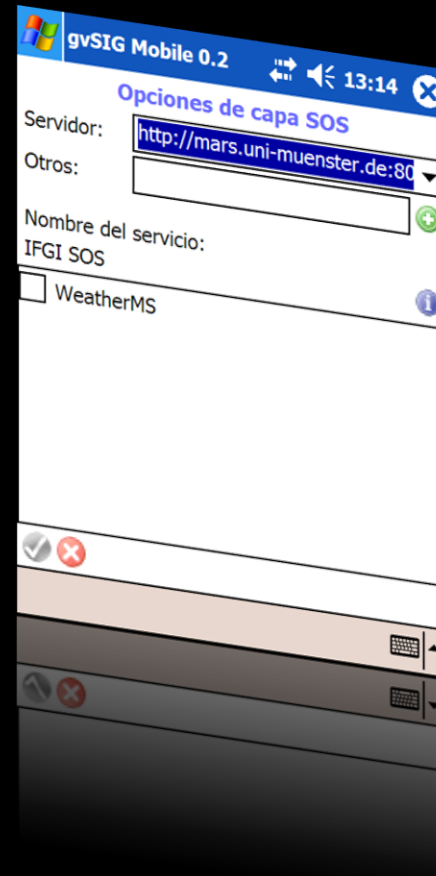
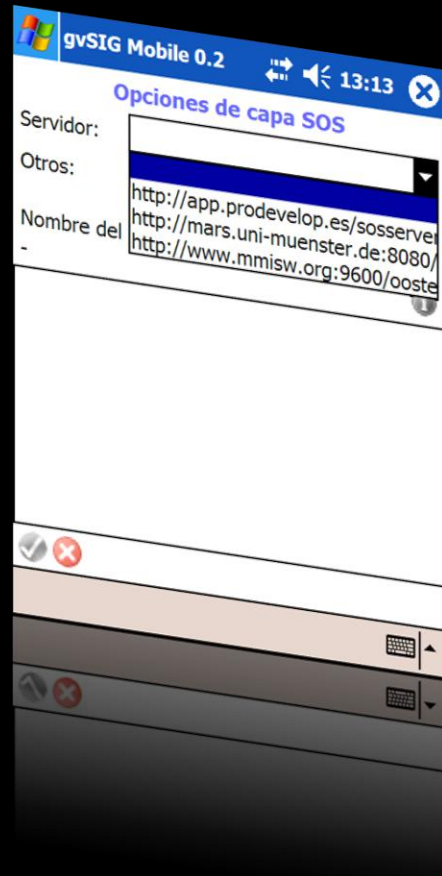


gvSIG Desktop Video



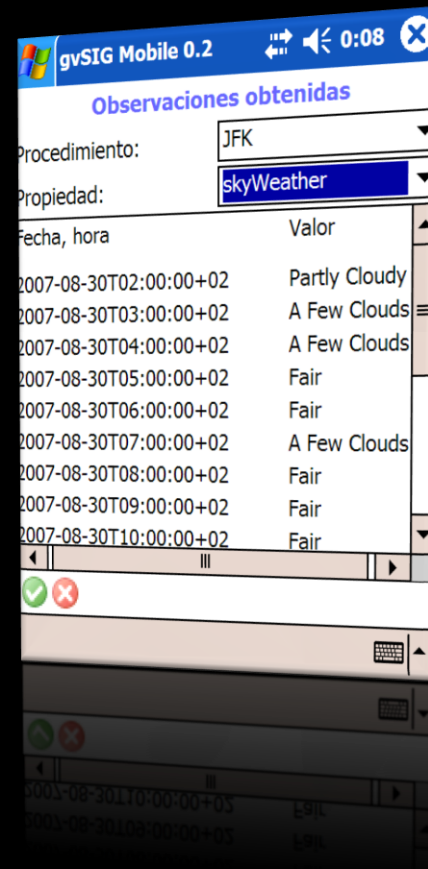
# gvSIG Mobile SOS client

- SOS offering as a new layer



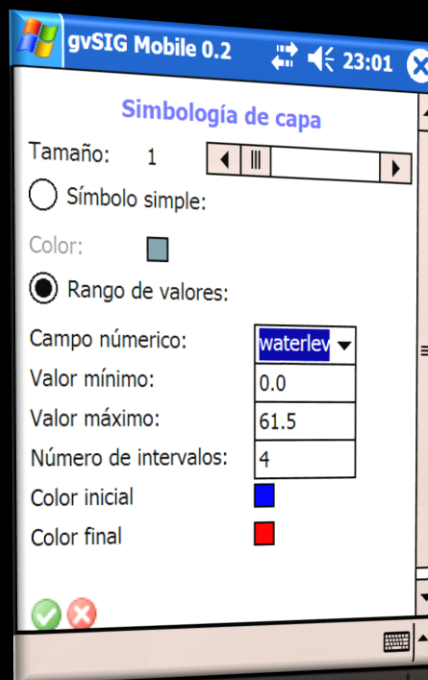
# gvSIG Mobile SOS client

- Get Observations



# gvSIG Mobile SOS client

- Thematic representation



gvSIG Mobile Video

# What's next ?

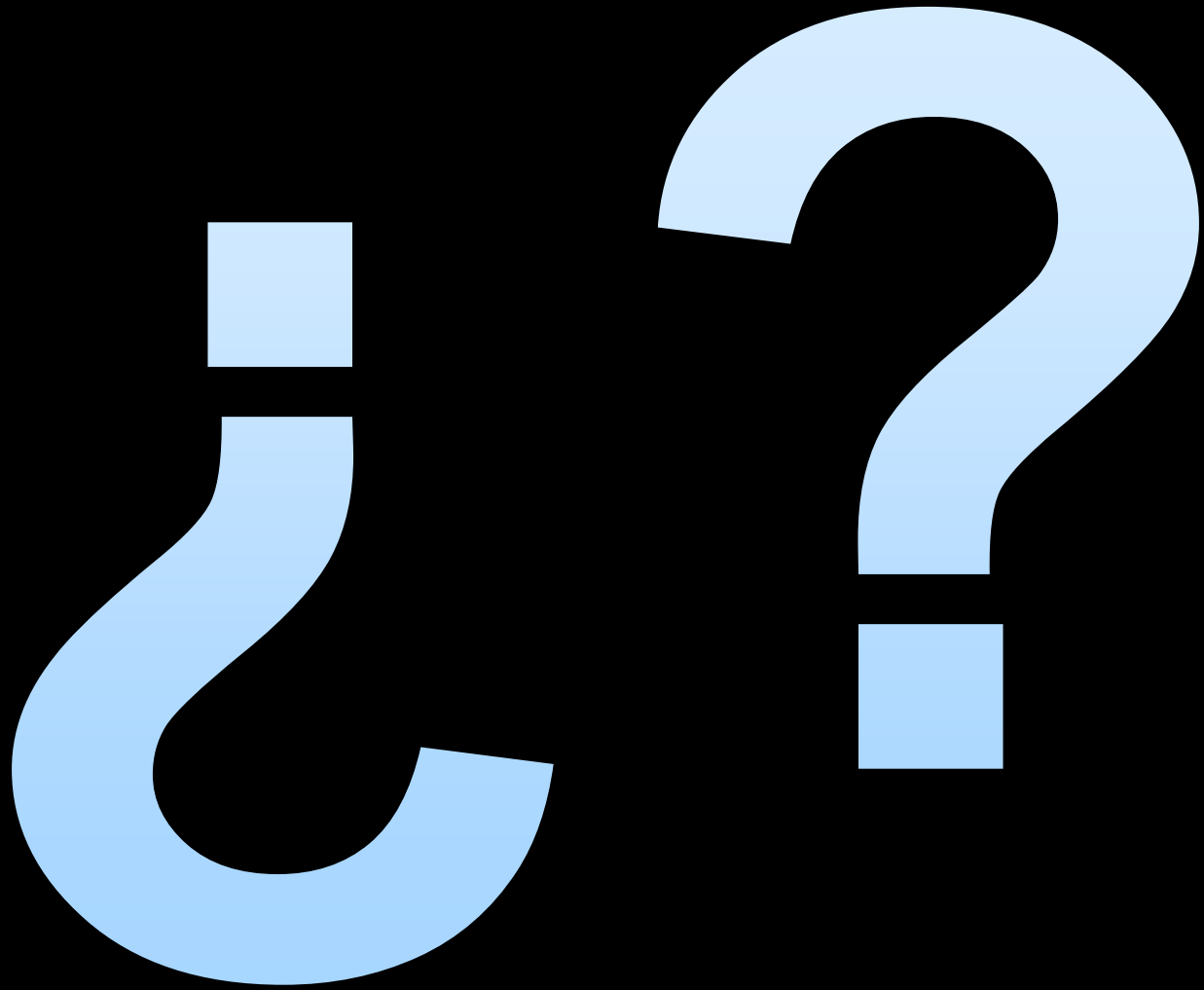
- gvSIG Desktop
  - Integration into gvSIG 2.0 official version
  - Integration with discovery services
  - Transactional Profile Support
  - Real-time dynamic sensor data on map
  - Integration with layouts

Collaborations are wellcome

# What's next ?

- gvSIG Mobile
  - Integration into gvSIG Mobile 1.0 official version
  - Transactional Profile Support?

Collaborations are wellcome



# Thank You

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