

**Review on “IEOOS: The Spanish Institute of Oceanography Observing System”  
By Tel et al.**

The manuscript (ms hereafter) summarizes the Spanish Operational Observing System and its implication in international programs. The ms submitted to the special Issue: “Operational oceanography in Europe 2014 in support of blue and green growth” fits the Issue scope but absolutely cannot be considered as a research article. In order to consider it as such a lot of work should be done. Therefore I propose the ms for publishing but only after major revision.

The ms is poorly written and in some parts seems to be translated using “online systems” that make not understandable the sentences! In its actual form it looks more like a “cooking receipt” rather than a scientific manuscript. It lacks of scientific contents, which should be strongly improved. For each component of the observing system should be indicated the operational and/or the scientific scope. In none of the systems is indicated how data are treated, the Quality Control and Quality Assurance applied and how these data are disseminated. Data products and Data repository should be indicated as well. The reader cannot realize how operative the system is and its degree of operability. A summary table should help in this. Finally, it should make clear the contribution of this observing system to GOOS or EuroGOOS

**General comments:**

- Acronyms should not be use in the abstract
- The introduction should be rewritten and expanded (specially lines 20-25) to make clear the goal of the system, how it contributes and support the blue and green growth. Acronyms should be explained from the beginning
- Insert in the ms a figure where all or most of the observing systems are positioned
- Insert in the ms figures with data output (examples or so..)

**Specific comments (to many to write all ....) :**

- Tide Gauge network:
  - Line 31 explain the acronym RONIMAR,
  - Line 37 what do you mean with high frequency data? Higher than 1 hour? If so, explain the reason of these type of measurements
- Shelf and Slope, deep Sections: should be deeply review. In some part both sections are similar. I suggest to make a clear division or to merge into one
  - Line 51 where are these 181 stations?
  - Line 54 rephrase
  - Line 76-78 could be applied also to the previous section (3.1) not only to deep stations
  - Line 94 velocity? Using CTD???
- Permanent moorings:
  - Line 107 named Finisterre and Santander. Indicate when the second mooring stopped and if and when it will be deployed

- Line 112 these current??? Correct and specify which ones/one
  - Line 118 this second mooring will contribute to the HC program?
- Ocean meteorological Buoy
  - Indicate the type of parameters measured at the site
- IEO Research Vessel
  - Repeated ship track figure
- ARGO
  - Line 140 47 profiles has been deployed since when?
  - Line 144-146 rephrase
- Satellite SST
  - Line 153 explain how you get the seasonal behavior of water masses from satellite imageries!
- Conclusions: expanded and improved!!