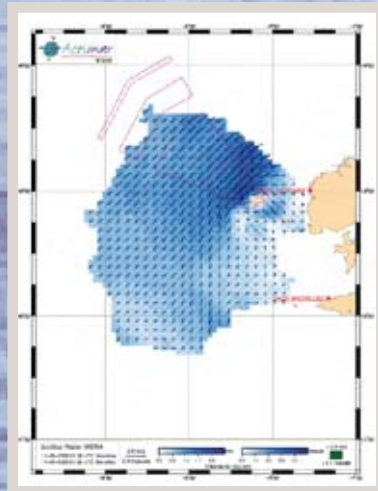


Advanced Seminar on
Measurements in the Sea

February 21st, 22nd and 23rd 2007

**Instituto de Ciencias del Mar (CSIC)
Barcelona**



Who should attend?

Technical staff and researchers who would like to know how and why new sea measurement technologies work. New technologies are quite complex compared with classical sensors that were in use only 5 - 10 years ago, and the many options in the instruments' setup increases their flexibility and potential. Detailed knowledge can therefore prevent failed measurement campaigns and significantly increase the value of the collected data.

The seminar will emphasize on practical topics, so that researchers working mainly with data will be able to benefit significantly from participating. Knowledge about how advanced systems work and operating principles is essential for the interpretation of the obtained information. Knowing "what's behind" increases the chances of being able to distinguish good data from bad data and interesting events from errors or noise. This seminar will be a perfect occasion for better understanding the state of the art sensors for long range, high resolution or nex-gen platforms for water motion measurements.

Special emphasis will be given to promoting a dialogue between speakers and attendants, so that individual experiences can increase everyone's knowledge.

The Advanced Seminar also represents an interesting opportunity to meet colleagues from other countries and fields of work, but with similar measurement challenges. A fruitful sharing of ideas and experiences is promised.

When?

February 21st to 23rd. There will be space and facilities for b2b and user-to-manufacturer meetings. Technical visits may be organized on request.

Where?

All seminar and sessions will be held at the Institut de Ciències del Mar (CSIC). Passeig Marítim, 37-49. 08003-Barcelona, Spain.

When do I have to register?

For full documents in due time: before February 16th. After hours registrations will be welcome, but attendants should not expect full documents and or facilities.

Seminar fee?

Full seminar fee: 180€. For one session (or two half sessions), the reduced fee is 100€.

Language

The Seminar will be in English.

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Program

1st day: Feb. 21st

09:00-10:00 Registration and welcome

Emilio García (Instituto de Ciencias del Mar, CSIC) and Oswaldo López (INNOVA oceanografía litoral)

Session 1:

10:00-11:00 Operational Oceanography: Spanish view.

Gregorio Parrilla (Instituto Español de Oceanografía)

Break

11:30- 12:30 Where is operational oceanography going?

Enrique Alvarez (Puertos del Estado)

12:30-13:00 Users' experiences, open discussions.

13:00 Lunch

Session 2:

15:00-17:00 The ever-expanding possibilities of the AWAC wave and current profile sensor

- Possibilities and Limitations with Acoustic Surface Tracking(AST)

- New methods for processing directional wave data from acoustic Doppler instruments (SUV method).

- Case Study: Wave reflection, Málaga, Spain

Torstein Pedersen (Nortek A/S)

17:00-18:00 Users' experiences, open discussions.

2nd day: Feb 22nd

Session 3:

09:00-11:00 Observing physics of the sea surface by FMCW radar.

Tom Van der Vlugt (Radac)

Break

11:30-12:30 Users' experiences, open discussions.

13:00 Lunch

Session 4:

15:00-17:00 Wave measuring buoys: past, present and future.

Harry Pannekeet and Dr.ir. H.P. Joosten (Datawell bv)

17:00-18:00 Users' experiences, open discussions.

20:00 Socials.

3rd day: Feb 23rd

Session 5:

09:00-11:00 Remote Ocean Sensing with long-range radar WERA Basics of over-the-horizont radar technology Selecting the right radar for specific applications.

Thomas Helzel (Helzel Messtechnik GmbH)

Break

11:30-13:00 Users' experiences, open discussions.

Session 6:

15:00-....:Open session for meetings, technical visits, further discussions, conclusions.

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