



## GAMBLE - OFFSHORE OPERATORS WORKSHOP 09:00 – 12:30 May 19<sup>th</sup> 2003

Norwegian Petroleum Directorate, Stavanger.  
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### **Future Priorities for Satellite Provision of Sea State and Ocean Current Data – 2005 and beyond**

#### **Workshop Aims**

Offshore operators are working to specifications that become more challenging year by year. These specifications can relate to operational activities, e.g. the need to operate within precise sea state limits, or for advance knowledge of “weather windows”, or they can form part of the design procedure (operational planning or vessel and structure design).

The EU funded “GAMBLE” network has brought together European experts to consider future developments in satellite altimetry. The aims are to coordinate developments so that the best use is made of data from altimeter missions that are already approved, and to make recommendations for the optimisation of forthcoming altimeter missions (orbits, tracking, orbit maintenance, payload specifications, scheduling) to best satisfy user needs.

It is a priority of Gamble to consider input from offshore operators, so that the requirements for future missions are driven as much by the needs of offshore operators (on account of commercial, safety or environmental considerations) as they are by those of the scientific community. Thus this workshop will allow operators to communicate their priorities, and to engage the GAMBLE partners in a dialogue as to the best way that these requirements can be satisfied.

For further information on GAMBLE go to (<http://www.altimetrie.net>)

## Agenda

(Presentations a maximum of 10 minutes each)

1. *Workshop Aims / The GAMBLE Project*

(D. Cotton, Satellite Observing Systems, UK)

2. *Overview of Altimeter Missions – 2003-2010 and beyond*

(Y. Menard, CNES, FR)

3. *Recent and expected future developments in altimeter derived data products*

3.1 Ocean Currents (Fabien Lefèvre, CLS )

3.2 Operational Products from Mercator (V. Toumazou, MERCATOR )

3.3 Investigating the potential benefit of multiple altimeter sampling (D Cotton, SOS) Short case study of the 12/01/03 Schiehallion event.

4. *User Priorities for ocean current and sea state data over the next decade.*

The OGP MetOcean committee regularly discuss their needs. A recent overview is given in an article by Chris Shaw and Colin Grant in the paper:

<http://ioc.unesco.org/gpsbulletin/GPS1&2/Vol1article.htm>

Invited presentations:

4.1 Offshore renewable energy, and other sectors of interest- Fugro-Geos - (Mark Calverly)

4.3 Observations, short term forecasts and technology for increased user confidence - Nowcasting International (Mark White)

5. *Discussion* : (Moderated by Tom Allan, SOS)

Can we identify common priorities? Possible issues include:

- Improved real time delivery.
- Improve resolution (time/space).
- Improve reliability / accuracy.
- Improve measurement of high waves/winds.
- Understanding / predicting “rogue” waves.
- More sea state parameters (swell, wave period and direction)?
- Improve forecasts of surface / sub-surface currents.
- Better performance close to coasts.
- Improve accessibility.

**Presentations:**

If possible, copies of presentations should be sent in advance to d.cotton@satobsys.co.uk. With these we will prepare a briefing pack for attendees.

**Local information:**

The meeting is at the offices of the Norwegian Petroleum Directorate (<http://www.npd.no/English/Frontpage.htm>)

Address: Professor Olav Hanssens vei 10, Box 600, N-4003 Stavanger  
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The NPD offices are located close to the Ullandshaugtarnet (a little south of the city centre). It is a 40-50 min walk from the city to the NPD offices.

**Hotels:**

NPD have reserved a limited number of rooms at preferential rates of NOK 895 per night in the Atlantic Hotel in Stavanger - to make use of this arrangement, please contact the hotel directly and refer to "NPD booking by Margrethe Hervik" (<http://sas.radisson.com/hoteldirectory/hotelbio.jsp?hotelCode=SVGZA>)

For a map of Stavanger: <http://www.stavanger-guide.no/language.html>.  
Further local information also available at: <http://www.visitstavanger.com/>

**Travel**

International flights to Stavanger Sola International Airport – also connections via Oslo/Copenhagen.

Ryan Air also operate flights from London Stansted to Haugesund Airport (North of Stavanger)