



## ADCP OS150 Issue

### ➤ Situation:

- Discovery of problems on ADCP OS150 on board Atalante April 2011, confirm in July 2011.
- New installation of ADCP on board Thalassa in July 2011. ADCP OS150 doesn't follow furnisher specifications at sea trials on august 2011.





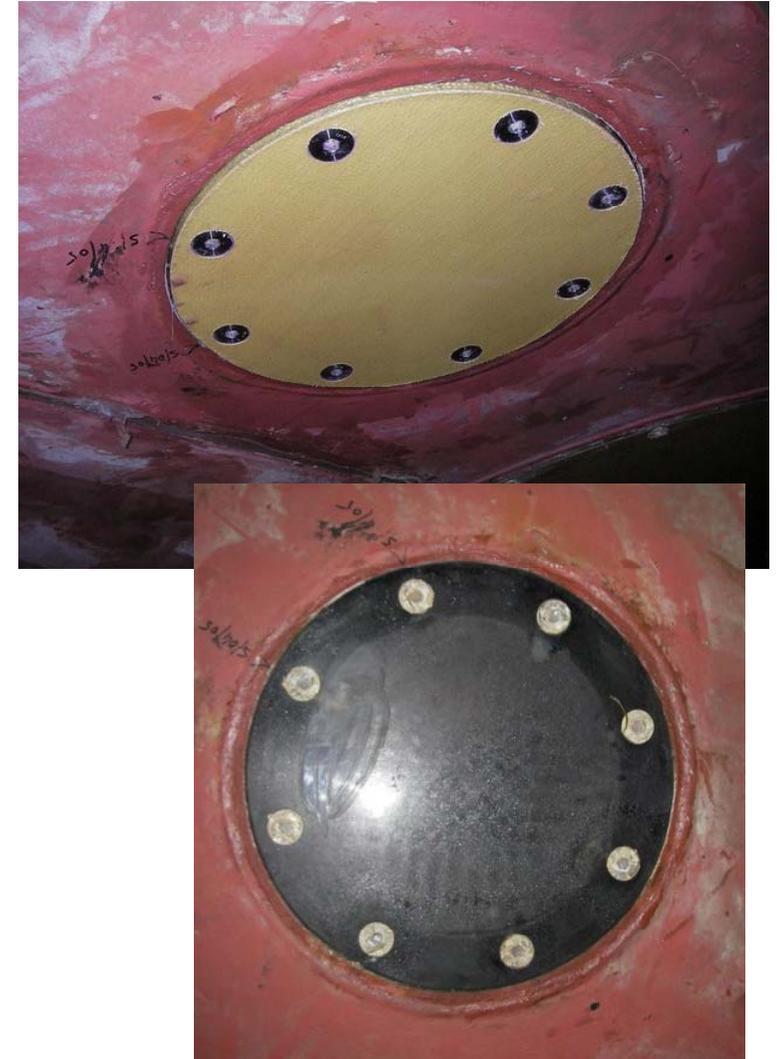
### ➤ Detail of issue

After sea trials on board Atalante in July 2011 and Thalassa in August 2011 (after installation of new ADCPs), we noted that :

- ⇒ difference between speed GPS and bottom track
- ⇒ sound range too short
- ⇒ first speed current layers proportional to vessel speed

### ➤ Idea : issue of ADCP OS150 acoustic windows

**Is it only an acoustic windows issue or is it more complex ?**





➤ **Investigation – sept/oct 2011**

Tests in acoustic tank of several acoustic windows.

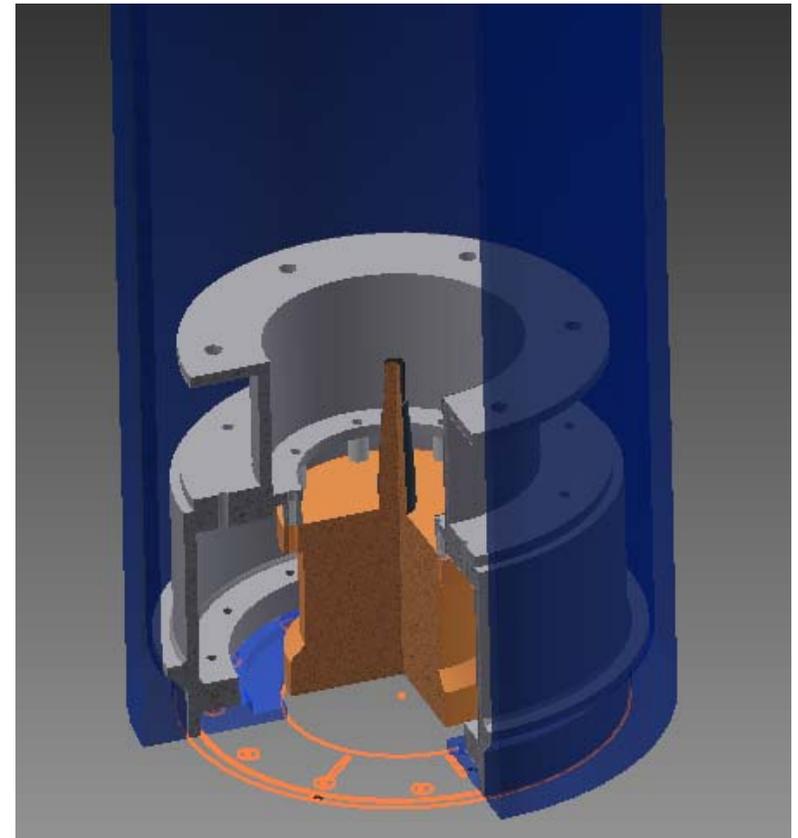
We tested different materials and several thickness.

⇒ choose material to test at sea

➤ **Sea trials – oct 2011**

First trials of ADCP OS150 with 2 new acoustic windows on TVO, on board Thalassa.

⇒ results are better than in August. Need to continue in this way.





➤ **Sea trials – fev 2012**

We plan to do more trials next February on TVO, on board Pourquoi pas?.

**Objective of these new sea trials:**

⇒ Find the right couple material/thickness for our acoustic windows

⇒ Be sure that it's only a problem of acoustic windows and nothing else

