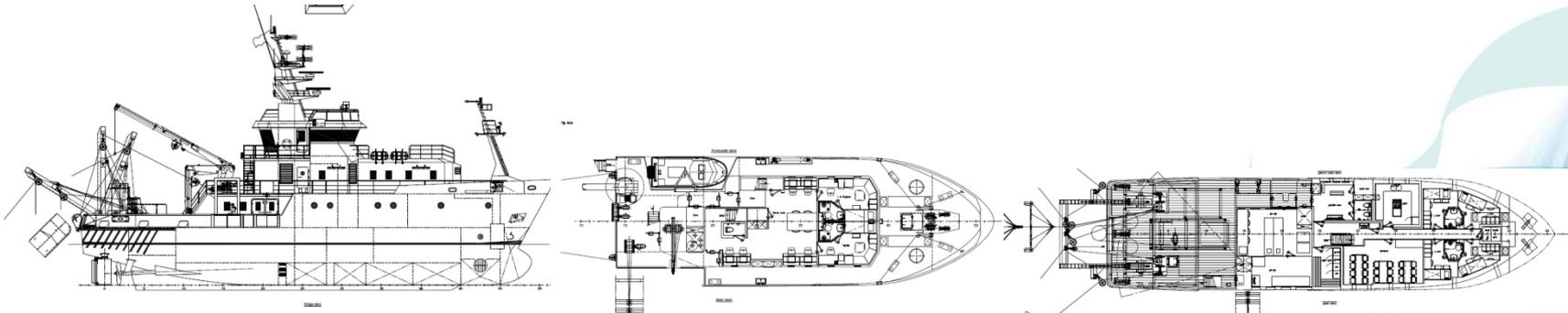


Lessons learned from designing a coastal/regional RV

Dre Cattrijsse VLIZ





Zeeleeuw

- Refit Pilottender
- Coastal Zone
- Daytrips, short time scheduling
- 150 days at sea

Flanders marine institute



New Coastal RV

- 2005 : feasibility study & initial budget estimation
- End 2006 : concept (based upon Prince Madog & Gunnerus)
- Buying off the shelf



New Coastal RV - Simon Stevin

- Approx. 30-35m, draught max 3m
- 10 (8) scientists + 10 crew
- 20 passengers for daytrips
- Mainly daytrips, max 5 days at sea
- Near coastal area Belgium – Southern Bight NS
- Comfortable seakeeping behaviour up to 2m Hs
- Multibeam, ADPC on drop keel or mount
- usbl on retractable mount
- DP, silent, 12Kn
- Main winches below deck = plus
- Work deck 8x8m
- Wet, dry & survey lab
- Carry lab container(s)
- Workboat for work in shallow water (<7m)



New Coastal RV - Simon Stevin

- cost estimated at 12M € (VAT incl.)
- Tender published June, closed September 2009
- Offers received from Damen (NL) & Larsnes (N), both rejected
- Bilateral negotiations during spring 2010
- Contract signed August 2010
- Detailed design September 2010-March 2011
- First steel cutting 1 April 2011
- Delivery 25 May 2012
- First science campaigns August-September 2012



New Coastal RV - Simon Stevin

- Breadth 9.4m , draught 3.5m , L36m
- 10 scientists + 10 crew : two cabins less = more lab/deckspace
- 20 passengers for daytrips
- Mainly daytrips, max 5days at sea
- Near coastal area Belgium – Southern Bight NS
- Comfortable seakeeping behaviour up to 2m rolling $<10^\circ$
- Multibeam, ADPC on blister, no hull mounted usbl
- DP0, ICES209 up to 9Kn, 11Kn
- Main winches below deck but wiring demanded extra space on deck
- Work deck 8x4
- Wet, dry & survey lab
- Carry 20ft & 10ft lab containers
- Workboat for work in shallow water is also FRQboat



New Coastal RV - Simon Stevin

- Not enough storagespace
- Spacious engine room but workshop cramped with electric boards
- Sci & nav wiring not well anticipated
- Blister & bubble sweepdown still to be evaluated
- Aft work deck is relatively tight
- Workboat for work in shallow water is also FRQboat



Write tender with much care / rethink thrice
Know the national/european law on public tendering and its capacities / think out of the box!!
Price is not necessarily the only parameter in final judgement

Talk heavily with yard, then discuss some more
Try to get informed on all consequences of certain decisions/options

Talk even more with rv operators
Expert panel - Interoperability

Feedback to scientists why not honoured requests

Buying off the shelf is feasible – dedicated yard necessary

Go green

