

Questions about Picasso from MBARI Operations Group

- 1) How do you control prop wash to keep current out of camera view point (i.e. keep from disrupting the object you are looking at)?
- 2) Have you done any work with Range Gated Cameras?
- 3) How did you pick the requirements of the AUV? How do the requirements map to the final vehicle? (history of design and development)
- 4) Is the housing of the AUV flooded during operation, or is it a sealed housing? Are the electronics in pressure housings?
- 5) Which Video Plankton recorder did you purchase?
- 6) which HD camera did you purchase? Do you have corrective underwater optics? Do you control the lense? (zoom, focus, iris, etc.)
- 7) which high frame rate camera are you using?
- 8) How is the ballast system built?
- 9) Do you have plans for on-board video storage?
- 10) What does the CPU do as part of the High Resolution Camera?
- 11) How did you decide which components are on ethernet and which on can bus (within your system)?
- 12) How do you implement the GPS antenna? PoP up? fixed antenna?
- 13) How is mosaic image formation done?
- 14) Why are the thrusters on the front?
- 15) what is the midwater navigation scheme (how do you know where you are in the water)?
- 16) Did you do modeling to select the sensors?
- 17) What are the batteries on Shinkai 6500?
- 18) What are the batteries on the Picasso?
- 19) what is the performance of the batteries?
- 20) what is the effect of running the HDTV on the mission duration (i.e. is the camera a big power user)?