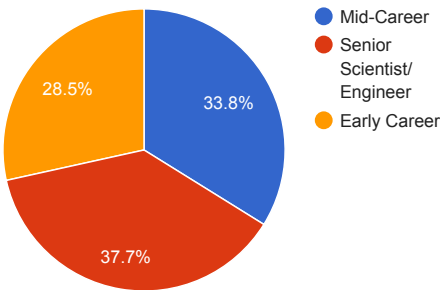
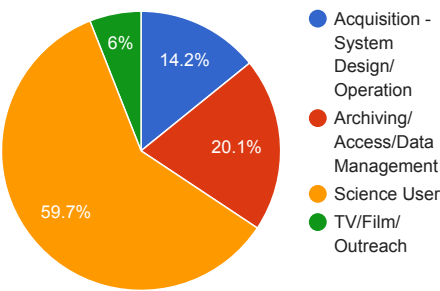


Survey Overview (133 Respondents)

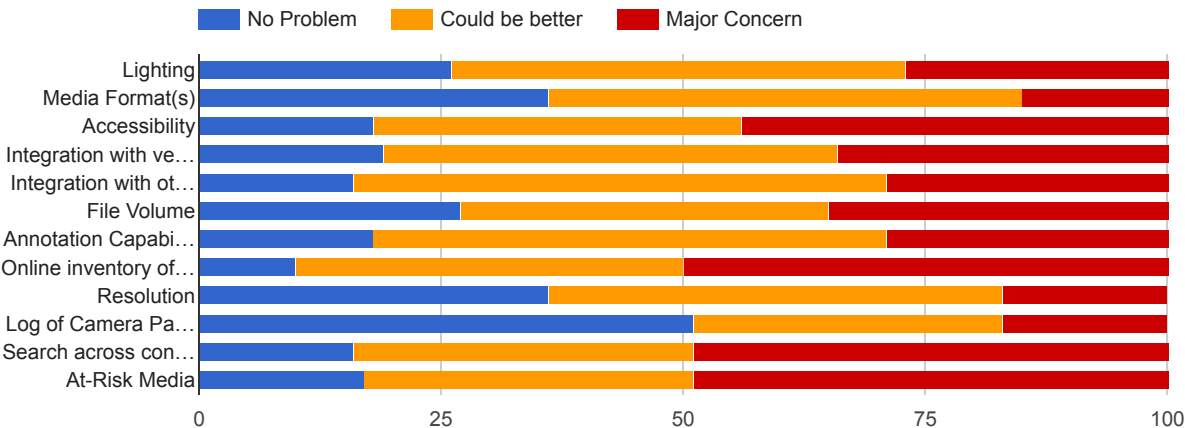
Career Stage



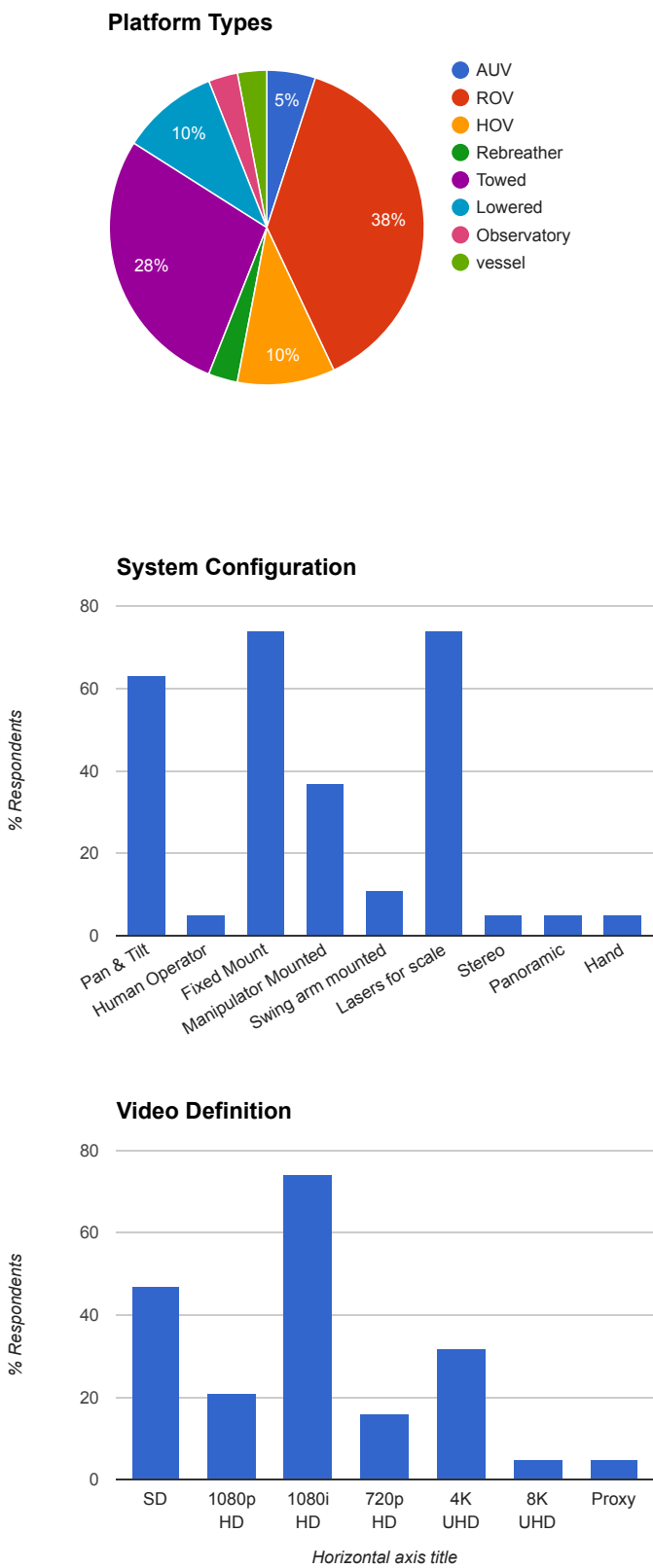
Primary Role

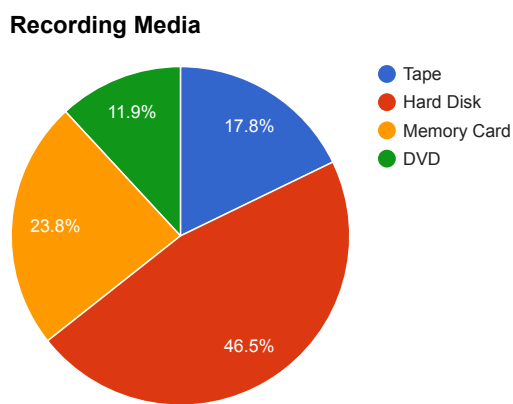
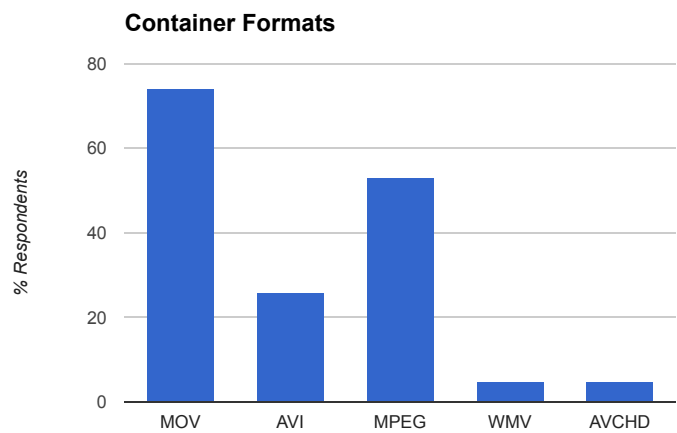
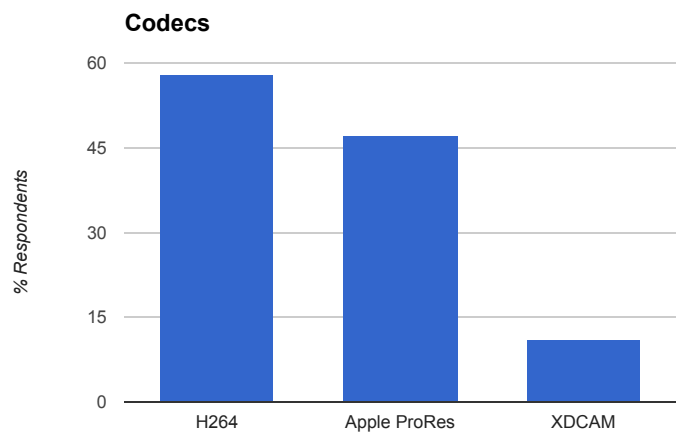


What are the biggest challenges/concerns with respect to working with underwater video?

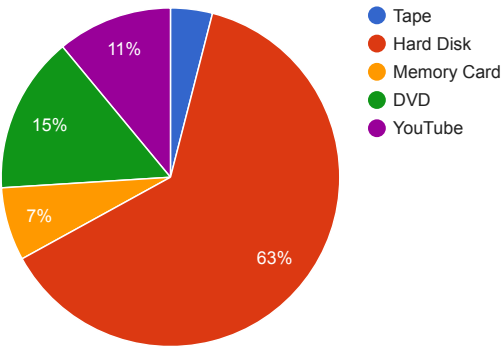


Vehicle/System Operators (19 Respondents)

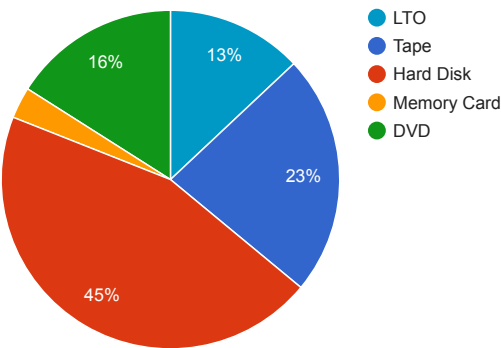




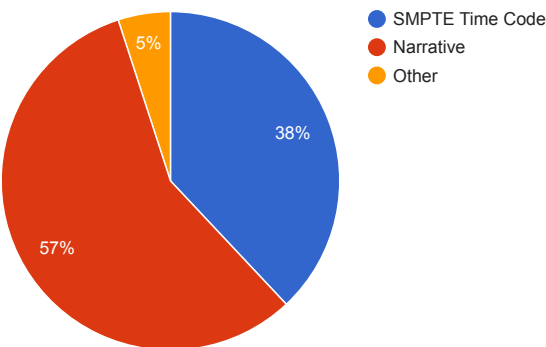
Delivery Media

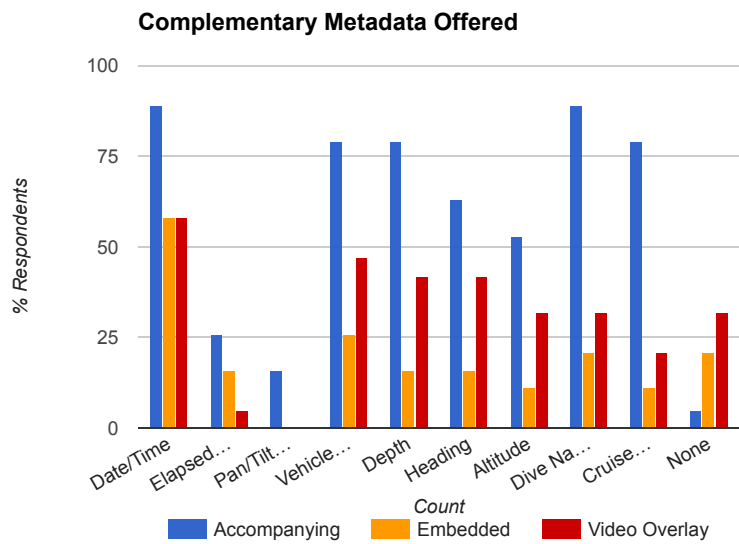


Long-Term Storage Media

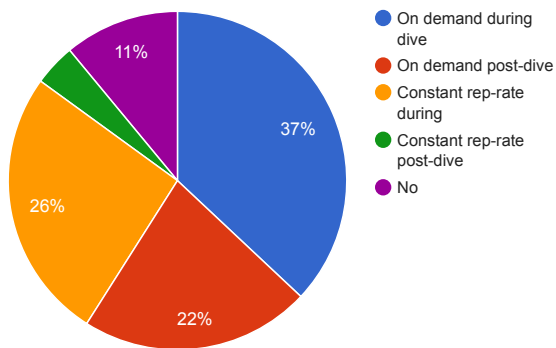


Audio Track

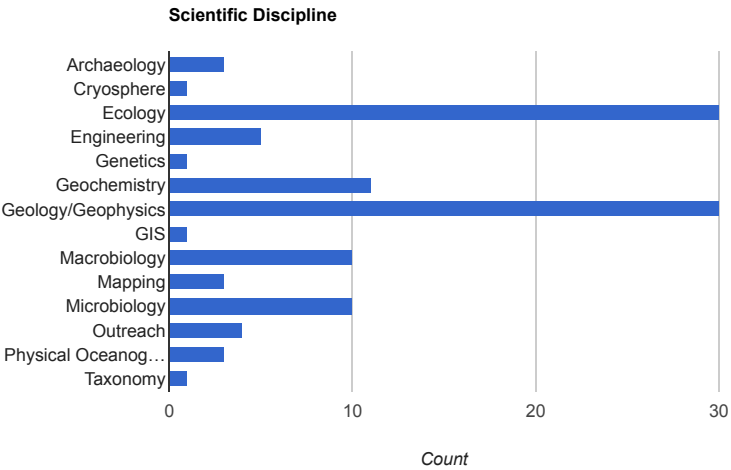




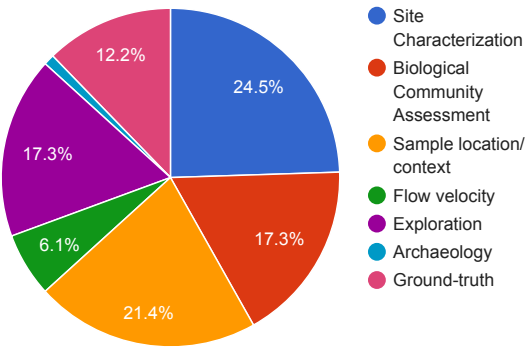
Export of Still Images



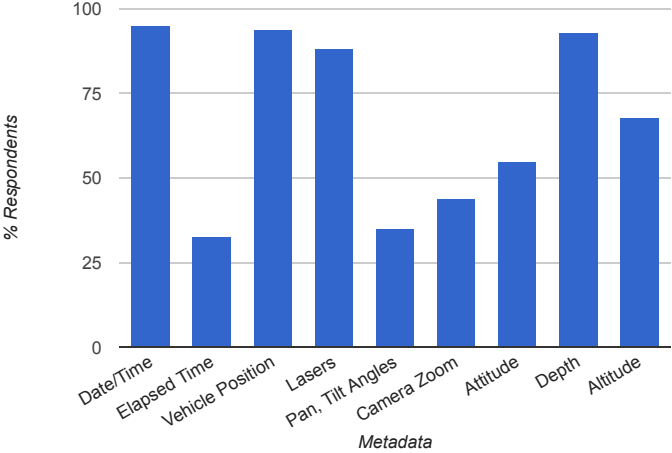
Science Users (80 Respondents)



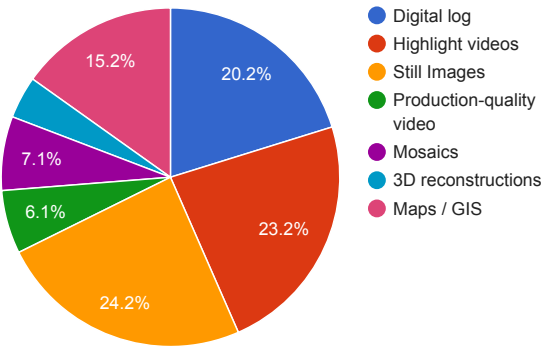
Science Use of Video



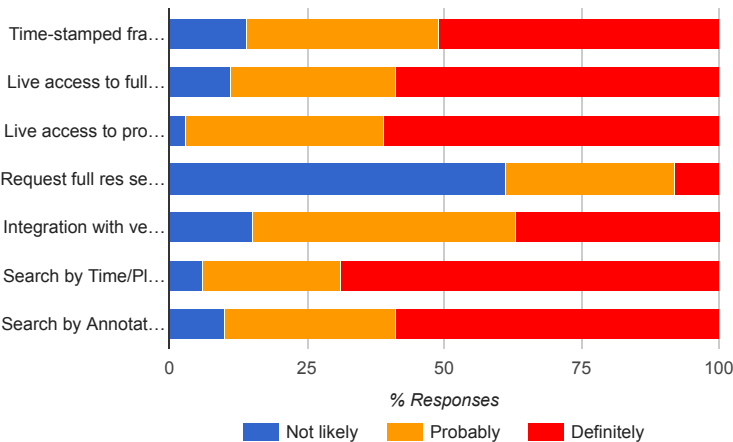
Metadata Required for Analysis



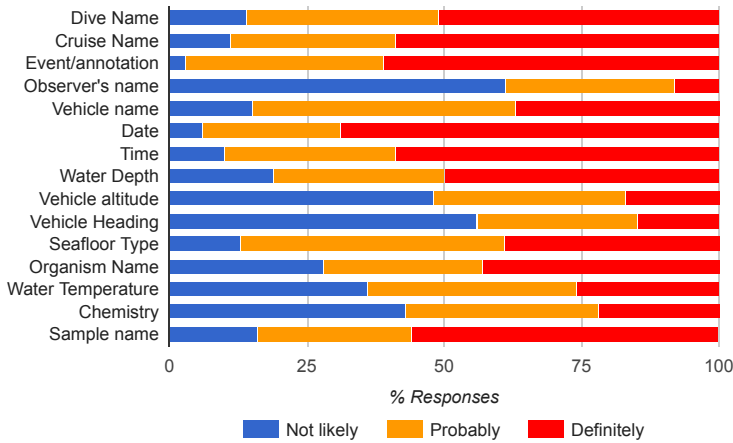
Products from Video

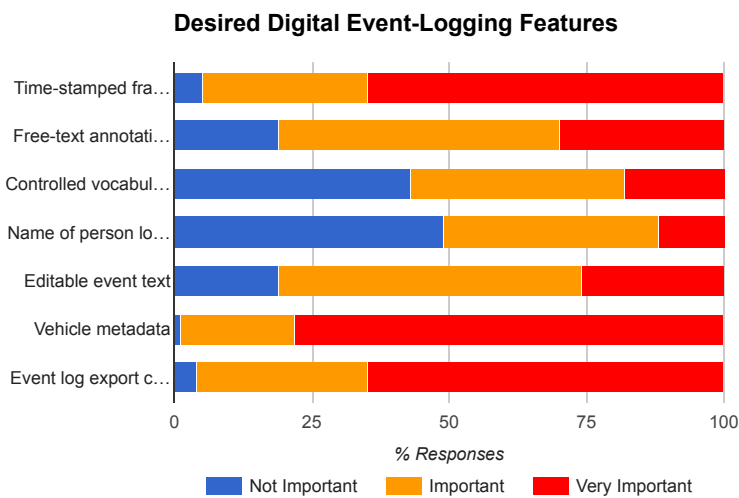


Online Video Access - Desired Features



How would you search online video archives?

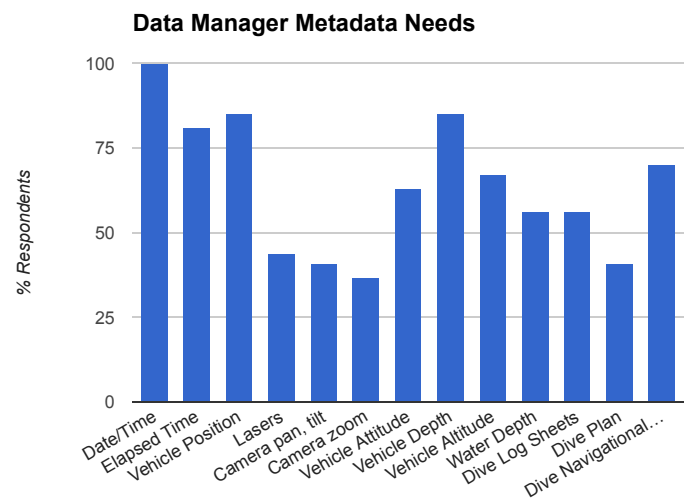




Data Managers (27 Respondents)

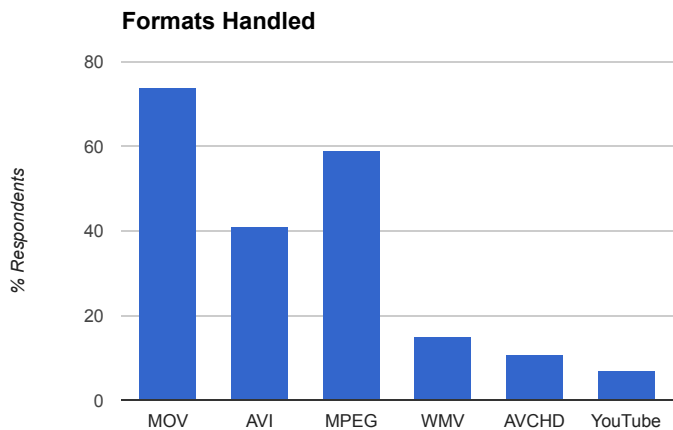
Concerns:

- Consistent tagging of taxa - resolving nomenclature.
- Discovery of content in other organizations;
- File sizes and ensuring consistency across derivative products (frame grabs, compressed versions, etc).
- Storage provisioning, maintenance and access; Total volume of data and searching online; file size, copy time;
- Accurately matching video timestamp if present with vehicle time series/navigation timestamp.
- How/where to handle the growing volumes.
- Deciding what video should be online at full res vs. proxy video.
- Long-term archiving plan (e.g. @NCEI) is not yet clearly established for this content type.
- Managing video file collections; Data visualization (timely access to all assets and correlated data in a package, offering customizable tools for spatial and temporal exploration and discovery); automated identification
- Recording quality, data volume, lighting conditions, network quality of service, motion blur, camera placement, video analysis (getting scientific knowledge out of huge volumes of data), maintaining large heterogeneously formatted video, synchronizing video with other timestamped telemetry)
- Connectivity;
- We store all the raw video - in an ideal world we would have the navigation data with the film and all the film would be annotated with metadata describing everything "important".



Other metadata needs:

- Expedition, Event details, operator, water temp, benthic type, habitat, behavior
- Cruise name and Chief Scientist
- cruise name, dive name, launch/recovery position/time, other data types collected
- rights management
- Camera Settings (frame rate, exposure, etc), compression parameters, audio settings
- closed captioning format, audio codec, recording issues log, recording setup details/configuration files
- Points of interest and notes that are recorded during real time to ease discovery of interesting snippets in post-processing



TV/Film/Outreach (8 Respondents)

Job Titles: Communications, Outreach, Video Editor, Program/Project Director, Online Communications Manager, Digital Media Producer

Software: Avid, Final Cut Pro, Adobe Creative Suite, Interplay Access

Concerns: Video quality, lighting, video resolution not being high enough; poor metadata, managment practices, and access; Stability; Finding engaging content within hours of footage before/after a cruise and also accessing video at a large enough resolution for online/media comms (particularly during ops).

