Update on imagery training
**NDSF Imagery Training: Goals**

1. Provide a majority of Alvin pilots and Jason watch standers with a 2-3-day hands-on intensive course in underwater photography and videography sufficient to provide significant improvement in their imaging skills and help them be a resource to science.

2. Provide vehicle/system specific training videos that can be provided to science both on and off the ship for self-study in order to prep them to follow up to operations personnel with questions. This includes both:
   a) Operation of imaging systems specific to NDSF vehicles (HOV Alvin or ROV Jason)
   b) best practices on how to “Get the most out of their video” through discussions of common use cases.
NDSF Imagery Training: Class Topics

• Introduction to underwater videography and still imaging fundamentals – framing, focusing, exposure, camera movement, zoom operation.
• Introduction to underwater lighting fundamentals – Back scatter, color shift, white balance
• Proper/preferred aiming and positioning of lighting and camera equipment on vehicles
• The anatomy of creating a “shot”
• Understanding differences between operational imaging requirements and detailed observational/cinematic requirements. What makes imagery most useful/desirable to media outlets such as Nat Geo, Discovery, OceanX, etc. Video formats?
• Best practices for common situations/scenes
  • Stationary, transiting, photomosaicing, extreme close up, reduce visibility environments,
NDSF Imagery Training: User Videos

- Introduction to Alvin Imaging Controls
- Introduction to Jason Imaging Controls
- Introduction to underwater videography and still imaging fundamentals – framing, focusing, exposure, camera movement, zoom operation.
- Introduction to underwater lighting fundamentals– Back scatter, color shift, white balance
- ????
**NDSF Imagery Training: Status**

- RFP Out and Responses Back
- Need to make Evaluation and Award ASAP
- Goal is class late fall 2020 COVID and cruise schedules permitting
- Goal is first videos done by end of CY2020 – other videos will likely move into 2021 for both time and budget reasons