

708165 - NOAA-MERHAB-UW

Week 53

1. Brent Roman
 - a. Installed ESP in Building B attic and telebuoy on roof
 - i. Testing Certus enabled satcoms

Week 51

1. Brent Roman
 - a. With Greg Voogds help, found suitable place on roof of Bld B to mount Iridium Antenna
 - b. James McClure is mounting the components of UW's "telebuoy" in weatherproof housing
 - c. This will connect to an ESP2 "sleepy" board in Bld B attic to allow full up testing of Iridium Next and cellular comms.

Week 50

1. Brent Roman
 - a. Added support for generation of PNG images (in addition to TIFF)

Week 48

1. Brent Roman
 - a. Customized dumplog with script for NW Fisheries to analyze their recent ESP logs

Week 46

1. Brent Roman
 - a. Starting porting libjxl (jpeg successor) to ESP Linux
 - b. Switching ESP from using TIFF to PNG images (to ultimately compress using cjxl)

Week 44

1. Brent Roman
 - a. Looking into how to port libjxl to ESP ARM Linux

Week 42

1. Brent Roman
 - a. Tested libjxl compressing representative images supplied by NOAA
 - i. Great results (700kB $\Rightarrow$ 6kB without visible artifacts)
 - ii. Porting libjxl to a small ARM processor is going to be a challenge

Week 40

1. Brent Roman
 - a. Steph accepted rewrite of the procedure for calibration of the 2G ESP Elevator
 - b. UW also tested improved 2G carousel calibration code

Week 39

1. Brent Roman
 - a. Wrote greatly simplified ESP 2G Elevator calibration procedure
 - b. Improved 2G's automatic carousel calibration utility

Week 38

1. Brent Roman
 - a. Reworking/documenting 2G ESP Elevator calibration procedure

Week 37

1. Brent Roman
 - a. Improving documentation of Elevator calibration

Week 36

1. Brent Roman
 - a. Investigating improved JPEG-XL image compression as a means of reducing satcoms costs in Iridium deployments

Week 24

1. Brent Roman
 - a. Participated on call discussing how to add Iridium Next Satcomms capability to UW ESP moorings

Week 23

1. Brent Roman
 - a. Ongoing support

Week 16

1. Brent Roman
 - a. Configuring a new Linux laptop for Steph's lab at NWFSC

Week 5

1. Brent Roman
 - a. Discussed pump and flow meter test procedure ideas with Stephanie Moore

Week 4

1. Brent Roman
 - a. Contributing to ESP deployment manual