Brent Jones Sorted By Project

300079 - DMO Support - RV Rachel Carson

901009 - CANON

- Support for wire walker data ingestion (Week 42)

901112 - Monterey Bay Time Series

- Beginning turnaround of Wire Walker (Week 6)
- Building up RaspberryPi zero and evaluating if it can replace SIPPER PIC24 (Week 20)
- Processing WW data (Week 28)
- Beginning integration of differential P ducer in SIPPER (Week 28)
- Continued integration of I2C diff P ducer in SIPPER (Week 29)
- Diagnosing fouled Wire Walker sensors (Week 29)
- Diagnosing SIPPER failure from last MBTS run. Isolated to a fault in the new MAXON EPOS4 motor controller. Trying to figure out why, and how to prevent. (Week 31)
- Upgrading SIPPER controller from PIC24 to PIC32. Requires new spin of PCB. Adding capability (Week 31)
- Finished design of new PIC32 PCB for SIPPER. Sent to manuf (Week 32)
- Diagnose pump failure in joint MBARI/SIO Spray 25 (Week 32)
- Carson day (Week 33)
- Diagnose SIPPER failure. Bad digital I/O on EPOS4 motor controller. Coded work around and tested in tank (Week 33)
- New PIC32 SIPPER boards are here. Getting started (Week 35)
- Finally got new SIPPER PIC32 to program. Found 2 floating processor inputs that caused ICSP programming to fail. Tied the lines and am now off porting PIC24 code to PIC32 code (Week 37)
- Continued porting of PIC24 code to PIC32 code (Week 42)
- Recovered Wire walker. Diagnosing bad pH sensor. Turn around for deployment (Week 43)
- Integrating maxon epos4 into pic32 (Week 43)
- Prep WW for deployment (Week 44)
- Deployed Daphne and WG (Week 46)
- Deploy Spray for calcofi line (Week 47)
- Deploy and recover LRAUV (Week 50)

901405 - Power Buoy

- Drove paragon in support of power buoy dive ops (Week 37)

901502 - Ocean Soundscape

- Beginning processing for 2022. Some problems associated with titan (Week 3)
- Spinning up code on a windows server (Week 4)
- Click processing (Week 4)
- Spun up windows server and processed 2022. Working on 2023 (Week 5)
- meetings (Week 5)
- Completed processing of all clicks (Week 6)
- Generating stats on clicks detected (Week 6)
- Prelim prep of Wire Walker for Mar deployment (Week 9)
- Investigate umap clustering for clicks (Week 11)
- meetings (Week 11)
- Investigating click duration calc from Sam's work (Week 12)
- Prepping Wire Walker for deployment next week (Week 15)
- Final Wire Walker prep (Week 16)
- Instituted real time data processing and plotting. Now served on gizo.mbari.org (Week 20)
- meetings (Week 20)
- Processing MARS hydroP for odontocete clicks using UCSD's Triton software (Week 29)
- Initial port of MBARI HMB code to NVIDIA Orin (Week 32)
- Re running Triton software to detect clicks (Week 33)
- Recovered failed wire walker. Diagnosed with leaking seacon bulkhead. Replaced, rebuilt, redeployed (Week 35)
- Running Triton click detection on all of 2018. Taking forever! (Week 37)
- Wire walker recovered (Week 42)
- Supporting transfer of Triton click detect software capability to collaborator (Week 42)
- Deploy WW. Diagnose telemetry issues (Week 45)
- meetings (Week 47)
- meetings (Week 48)
- Create new VM with IS since gizmo can no longer run matlab R2022b needed for Triton processing (Week 50)

901805 - Coastal Biogeochemical Sensing Program

- Moving start of descent pH sampling to minimum 2m depth. Dont want to suck in surface junk (Week 3)
- Code updates to incorporate firmware versioning, seabird pump turn on at various times, etc (Week 4)
- Meetings (Week 6)
- Beginning to look at repackaging nanoFET (Week 6)
- Flying Spray29 in support of Yui experiments (Week 9)
- Moving noniso nFET from orcad to KiCAD so a different layout can take place (Week 9)
- Split nanoFET pcb board into two (Analog and digital) to repackage in smaller housing (Week 10)
- Circuit drawn up in KiCAD (Week 10)

- Working on analog pcb layout in KiCAD (Week 10)
- Analog nonisonanofet pcb rough draft complete (Week 11)
- Begin work on digital nonisonanofet pcb layout (Week 11)
- Laying out digital nanofet board (Week 12)
- Working on mechanical design for NanoFET2 (Week 15)
- Mechanical design for nanofet (Week 16)
- Mechanical design of NanoFET v2 (Week 20)
- Spray code tweaks (Week 20)
- Assisting in rebuild of Spray29 hydraulic system (Week 31)
- Redesign glider nanoFET to include power isolation (Week 44)
- Add isolation to nanoFET2 miniature implementation (Week 45)
- PCB design for 3 board nanoFET stackup (Week 46)
- Mechanical design for nanoFET modular. Reducing overall size (Week 46)
- Design review for 3 board isolated nanofet (Week 47)
- Mechanical integration of LioneX (Week 47)
- Working on BOM for nanoFETv2. (Week 48)
- Completed pcb for n channel ISFET (Week 50)
- Prepping all 4 nanofet v2 pcb for manuf (Week 50)

902004 - Planktivore

- Troubleshooting BME 280 env sensor (Week 3)
- Prepped, deployed, and flying ptvr ahi in support of I2MAP mission (Week 5)
- meeting (Week 6)
- Prepped Ahi for MBTS run (Week 15)
- meetings (Week 20)
- Prepped and deployed Ahi for I2MAP mission (Week 28)
- Pilot Ahi in support of I2MAP (Week 32)
- Investigating power consumption on Orin (Week 50)

902101 - LRAUV Technology Development

- Recovered stuck LRAUV Galene (Week 20)

Out of Office

- Dr appointments for injured hand
- Vacation
- sick
- vacation

Overhead

- Moving into bldg G (Week 3)
- Still outfitting new G120 lab (Week 6)
- Paragon training on new motors (Week 16)

- Email migration (Week 16)
- Helping with proposals (Week 28)
- Drove 3 interns on Paragon to recover WG and deploy Triton LRAUV (Week 31)
- Recovered LRAUV Makai (Week 42)
- Help recover piscovore LRAUV (Week 43)
- Trip to Mt Toro (Week 44)
- Staff party (Week 46)
- Deploy Pontus (Week 47)
- Remove fouling from WG Hansen (Week 48)
- Communications workshop (Week 50)