

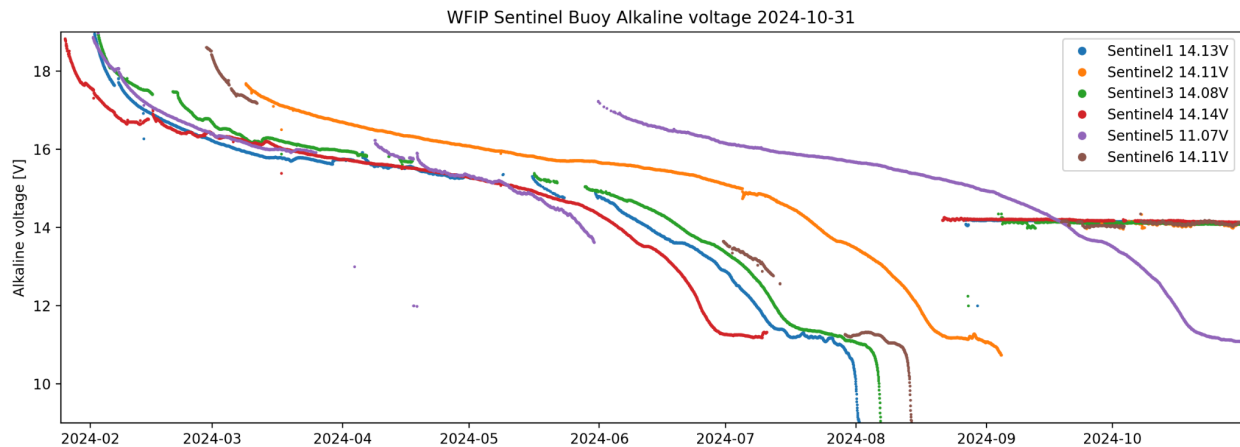
[WFIP Sentinel wiring schematic](#)

Important Dates

- Tioga deploy week of Nov.18
-

STATUS (last updated BG Oct.31, 2024)

Buoy	Location	SITE	Status
Sentinel 1	deployed	1	Deployed 8/27
Sentinel 2	burnpad		burnin started 9/24
Sentinel 3	deployed	2	Deployed 9/12
Sentinel 4	deployed	4	Deployed 8/27
Sentinel 5	deployed	3	Sentinel 5 powered down Nov.12, recovered
Sentinel 6	burnpad		burnin started 9/18
Lidar Buoy	deployed	Lidar	Deployed 8/2.



Sentinel 6

- Needs burn-in
 - Internal data review
 - Clear microSD data using PC400 BG 9/18
 - Double check SNs, update [\[WFIP SN link\]](#)
- Spot tracker - new batteries?
- Sensors
 - SR30 – troubleshoot intermittent NaNs. Already has SerialFlush() fix. Did we upgrade SIO4A firmware to latest Jan.2024? BG yes, SIO4A fw is up to date BG 9/18 bad cable. Using Sentinel 2 cable
 - SBE37
 - recover internal data and upload to buoy5
 - check batteries and configuration.
 - Re-install, start
 - PRC

- ~~recover internal data and upload to buoy5~~ AL 9/18
 - check batteries and configuration.
 - Re-install, start
- battery chassis
 - ~~install new Lithium batteries~~ 9/18 EJ
 - ~~add additional terminals to busbar~~ 9/18 EJ
 - install new dessicants
 - ~~drill plates~~ 9/18 EJ
 - ~~install battery chassis inside well~~ 9/18 EH/EJ
- electronic chassis
 - ~~update CR6 code to log and telemeter BMP390 pressure sensor~~ BG 8/29
 - ~~recover internal CR6 data, upload to buoy5~~ BG 9/12
 - ~~confirm SIO4A firmware is latest version (Jan. 2024) — do before sealing well; see April 17 email w/ instructions~~ BG 9/16
 - ~~take 360 set of photos and upload to buoy5 prior to installation in well~~ BG 9/16
 - ~~Install BMP390 internal pressure sensor (Lithium battery monitoring)~~ BG 8/29
- mechanical
 - ~~Screw in one way valve / vent~~ EJ 9/18
 - Needs extra chain
 - ~~extend buoy vane~~ EJ
 - Add weight under buoy (Lith vs Alkaline)
- ~~real time — add internal _pressure real time variable~~ BG 8/29

Sentinel 2

- Needs burn-in
 - Internal data review
 - ~~Clear microSD data using PC400~~ BG 9/24
 - Double check SNs, update [[WFIP SN link](#)]
- Sensors
 - Spot tracker - new batteries?
 - Wind Monitor
 - ~~troubleshoot wind speed issues. 2Hz loop() may fix this, or may need compass board replacement.~~
 - ~~Needs RMY Prop — it is missing!~~ EH 9/24
 - ~~Double check that wind monitor shield wire is grounded to REF2~~ BG 9/16
Grounded shield wire to REF2
 - SR30
 - ~~troubleshoot intermittent NaNs. SerialFlush() code may resolve this issue~~
 - ~~SR30 splice new cable (borrowed for Sentinel 6 9/23)~~ EH 9/24
 - SBE37
 - recover internal data and upload to buoy5
 - check batteries and configuration.
 - Re-install, start

- PRC
 - ~~recover internal data and upload to buoy5~~ AL 9/18
 - check batteries and configuration.
 - Re-install, start
- ~~battery chassis~~
 - ~~install new Lithium batteries~~ EJ 9/18
 - ~~add additional terminals to busbar~~ 9/18
 - ~~install new dessicants~~ 9/18
 - ~~drill plates~~ 9/18
 - ~~install battery chassis inside well~~ 9/18
- ~~electronic chassis~~
 - ~~update CR6 code~~
 - ~~Implement Wind Monitor 2Hz fix~~ BG 9/16
 - ~~Implement SR30 SerialFlush() fix~~ BG 9/16
 - ~~replace voltage divider code with CH200~~ BG 9/16
 - ~~update CR6 code to log and telemeter BMP390 pressure sensor~~ BG 9/16
 - ~~remove DC converter~~ BG 9/10
 - ~~recover internal CR6 data, upload to buoy5~~ BG 9/12
 - ~~update SIO4A firmware to latest version (Jan.2024)~~ BG 9/16
 - ~~mount CH200, remove voltage divider, connect to CR6~~ BG 9/10 ~~waiting for Digikey connectors 9/13~~ BG 9/16
 - ~~take 360 set of photos and upload to buoy5 prior to installation in well~~ BG 9/16
 - ~~Install BMP390 internal pressure sensor (Lithium battery monitoring)~~ BG 9/10
- mechanical
 - ~~extend buoy vane~~ EJ 9/24
 - ~~Screw in one way valve / vent~~ 9/18 EJ
 - Needs extra chain
 - Add weight under buoy (Lith vs Alkaline)
- ~~real time~~ ~~add CH200 load_mA and internal_pressure~~ ~~real time variables~~ BG 9/16

BG EVERYTHING BELOW HERE IS OLD

Sentinel 3 - Deployment scheduled for Sept.10

- Needs burn-in
 - ~~telemetry test~~ BG 8/27 - new variables load_mA and internal_pressure; works
 - Internal data review (Austin)
 - ~~Clear microSD data using PC400~~ 9/10 EH via PC400
 - Double check SNs, update [[WFIP SN link](#)]
- Sensors
 - R3-50 - arrived, in lab SN#243201
 - ~~splice R3-50 cable onto Dragonfish MCIL8M~~ BG 8/26, still needs self-vulcanizing and electrical tape EH
 - ~~program R3-50 with Sentinel 10Hz settings~~ BG 8/27

- ~~Replace RM81000 mounting clamps with R3-50 clamps~~ getting powder coated
- ~~Wind Monitor~~
 - ~~troubleshoot wind speed issues. 2Hz loop() may fix this, or may need compass board replacement. BG 8/27 RMY works fine on bench after updating CR6 code~~
 - ~~Double check that wind monitor shield wire is grounded to REF2 BG 8/27 added ferrules, heat shrink shield wire, connected to REF2.~~
- ~~SR30 troubleshoot intermittent NaNs. SerialFlush() code may resolve this issue BG 8/27 SR30 working on bench, firmware fix seems to have resolved this~~
- ~~SBE37~~
 - ~~recover internal data and upload to buoy5~~
 - ~~check batteries and configuration.~~
 - ~~Re-install, start~~
- ~~PRG~~
 - ~~recover internal data and upload to buoy5~~
 - ~~check batteries and configuration.~~
 - ~~Re-install, start~~
- ~~PTB110 troubleshoot sensor failure starting July 24 BG 8/27 PTB110 is working on bench, no issues with cable~~
- battery chassis
 - ~~install new Lithium batteries~~
 - ~~add additional terminals to busbar~~
 - ~~install new dessicants~~
 - ~~drill plates~~
 - ~~install battery chassis inside well~~
- electronic chassis
 - ~~update CR6 code~~
 - ~~Replace RMY81000 code with R3-50 BG 8/20~~
 - ~~Implement Wind Monitor 2Hz fix BG 8/20~~
 - ~~Implement SR30 SerialFlush() fix BG 8/20~~
 - ~~replace voltage divider code with CH200 BG 8/20~~
 - ~~update CR6 code to log and telemeter BMP280 pressure sensor BG 8/20~~
 - ~~remove DC converter BG 8/20~~
 - ~~recover internal CR6 data, upload to buoy5 AL 8/20~~
 - ~~mount CH200, remove voltage divider, connect to CR6 BG 8/20~~
 - ~~update SIO4A firmware to latest version (Jan.2024) - do before sealing well; see April 17 email w/ instructions~~
 - ~~take 360 set of photos and upload to buoy5 prior to installation in well~~
 - ~~Install BMP390 internal pressure sensor (Lithium battery monitoring) BG 8/26~~
- mechanical
 - ~~extend buoy vane EJ~~
 - ~~Screw in one-way valve / vent EJ~~
 - ~~Needs extra chain~~

- Add weight under buoy (Lith vs Alkaline)
- ~~real time add CH200 load_mA and internal_pressure real time variables BG 8/22~~

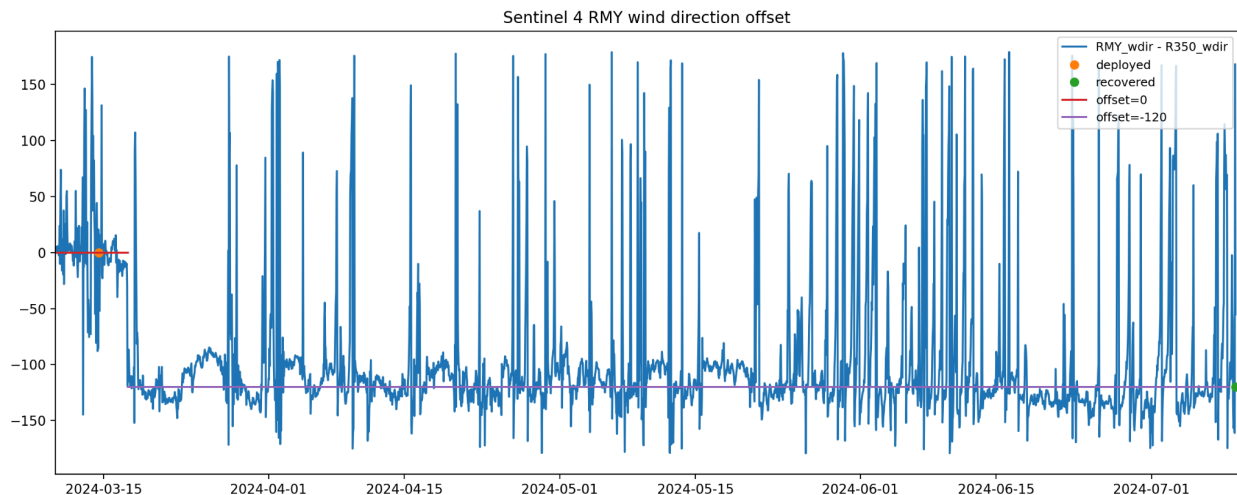
Sentinel 1

- Needs burn-in. Burnin started 8/24.
- Sensors
 - ~~troubleshoot R3-50; failed for unknown reason July 12th BG 8/14 recommend sending R3-50 to PP systems for repair. Faulty R3-50 replaced with spare ASTRAL R3-50.~~
 - ~~SR30 troubleshoot intermittent NaNs. Sentinel 1 already has SerialFlush() fix. Possible cable issue. BG unable to recreate SR30 problem, sensor works fine on lab bench, cable is in good condition.~~
 - SBE37
 - recover internal data and upload to buoy5
 - check batteries and configuration.
 - Re-install, start
 - PRC
 - recover internal data and upload to buoy5 [Austin]
 - check batteries and configuration.
 - Re-install, start
- battery chassis
 - ~~drill plates EJ~~
 - ~~add additional terminals to busbar EJ~~
 - ~~install new Lithium batteries on chassis EJ~~
 - ~~install new dessicants EH~~
 - ~~install battery chassis EH~~
- electronic chassis
 - ~~update CR6 code~~
 - ~~replace voltage divider code with CH200 BG 8/8~~
 - ~~update CR6 code to log and telemeter BMP280 pressure sensor BG 8/19~~
 - ~~recover internal CR6 data, upload to buoy5 BG 8/8~~
 - ~~mount CH200, remove voltage divider, connect to CR6 BG 8/8~~
 - ~~take 360 set of photos and upload to buoy5 prior to installation in well BG 8/19~~
 - ~~Install BMP280 internal pressure sensor (Lithium battery monitoring) BG 8/19~~
- mechanical
 - ~~extend buoy vane EJ~~
 - ~~Screw in one way valve / vent EJ~~
 - add weight
- ~~real time add CH200 load_mA and internal_pressure real time variables BG 8/22~~

Sentinel 4

- Needs burn-in burnin started Aug.20
- ~~electronic chassis~~
 - ~~remove DC converter BG 7/11~~

- ~~mount CH200, remove voltage divider, connect to CR6~~ BG 7/11
- ~~SIO4A firmware update x4 ports~~ KT 7/16
- ~~Take 360 set of photos and upload to buoy5 prior to installation in well~~ BG 8/19
- ~~Install BMP390 internal pressure sensor (Lithium battery monitoring)~~ BG 8/19
- CR6
 - ~~RMV Wind Monitor 2Hz fix~~ BG 7/16
 - ~~SR30 SerialFlush() fix~~ BG 7/16
 - ~~CH200-SDI12() code~~ BG 7/11
 - ~~upload internal data (CR6,PRC,SBE37) to buoy5~~ AL 7/16
 - ~~update CR6 code to log and telemeter BMP280 pressure sensor~~ BG 8/19
- battery chassis
 - ~~install new Lithium batteries~~
 - ~~add additional terminals to busbar~~ EJ 8/13
 - ~~need plates~~ EJ 8/12
 - ~~dessicants~~ EH
 - ~~install battery chassis~~ EH 8/20
- sensors
 - ~~Needs R3-50~~ EH 8/19
 - Troubleshoot RMV Wind Monitor - wdir and compass flat-lined 8/21
 - SBE37
 - ~~recover data, upload to buoy5, check sensor health~~ EH 7/22
 - restart
 - PRC
 - recover internal data and upload to buoy5 [Austin]
 - check batteries and configuration.
 - Re-install, start
 - ~~connect RMV Wind Monitor earth ground to RMV32500 GND2~~ EH 7/22
 - ~~troubleshoot RMY05106 wind direction offset. 120° offset started March 17 (a few days after deployment). Did sensor rotate on mounting pole?~~



- mechanical
 - ~~extend buoy vane~~ EJ

- ~~Screw in one-way valve / vent EJ~~
 - add weight**
- ~~real time add CH200 load_mA and internal_pressure real time variables BG 8/21~~

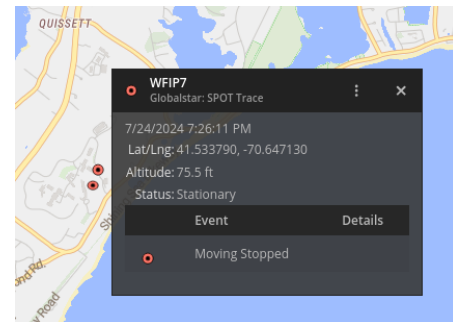
BG EVERYTHING BELOW HERE IS OLD

Lidar

- ~~fix Airmar, Lidar wind direction offset BG 8/12~~
- ~~forward data to DOE DAP BG/AL/EC 8/22~~

Lidar Buoy - deployed Aug.2

- ~~Test ssh remote connect capability BG 7/24~~
- ~~Test remote SBG reset BG 7/24~~
- ~~Test wiper/pump functionality BG/RG 7/24~~
- ~~Clear / Format ZX internal memory BG 7/31~~
- ~~Spot Tracker~~
 - ~~install RG~~
 - ~~confirm working, record SN BG 7/25 SN:0-4466660~~
 - ~~add to real time website BG 7/29~~
- ~~Assess ZX300 Lidar data storage capacity. upload data to buoy5~~
- ~~tighten guy wires RG~~
- ~~test Xeos Kilo (previously tested April, 2024) RG/BG 7/25~~



Sentinel 1

- ~~Resume Sentinel 1 data upload to DOE BG 6/10~~
- ~~need to correct tower top alignment BG 6/03~~
- ~~review internal data~~
 - ~~SR30 performance after flush() command and firmware update AL 5/30~~
 - ~~RMV wind performance after 2Hz update AL 5/31~~
 - ~~confirm SBG_reset works (remote command sent 4/17 20:05) KT 5/24~~
 - ~~upload internal data to buoy5 from deployment February 8 - March 14 BG 5/23~~
- ~~RMV Wind Monitor wind speed issue - reports wind speeds much lower than expected~~
- ~~SIO4A needs Jan.2024 firmware update (ports 1 and 2)~~
- ~~Needs a Sonic~~
 - ~~record serial number SN# 232901~~
 - ~~configure 10Hz output, ASCII 115200 BAUD w/ sonic temp, etc.. BG 5/23~~
 - ~~Mount Sonic - Sentinel 1 Sonic is currently in UOP lab (needed to be configured)~~
 - ~~complete sonic cable splice, test cable BG complete 5/24~~
- ~~take photos of electronic chassis~~

- ~~place outside (targeting Friday afternoon) AK/BG outside 5/31~~
- ~~confirm alignment of wind sensors and compass box BG 6/3~~
- ~~confirm health of WXT wind sensor (currently blank because SBG needs view of sky) BG 6/3~~
- ~~confirm serial numbers, RMY wind monitor swap? KT/BG 5/30~~
- ~~Confirm ASIMET PRC, SBE37, Globalstar SPOT tracker are installed~~
- ~~Prepare for transit to dock~~
 - ~~mooring chain, etc..~~
 - ~~Remove buoy from stand with highbay crane, fork lift outside for Walter DT,AK,BG~~
 - ~~Ersen's install padeye/hardware EJ 6/3~~
- ~~Add chain/ weight to buoy~~
- ~~SBE37~~
 - ~~download SeaTerm version 2 (important)~~
 - ~~RS232 vs RS485? baud rate? RS232 9600 baud~~
 - ~~Sync time, sampling rate confirm, confirm internal battery voltage BG sampling every 60 seconds, battery voltage is 10.7V; fresh = 3x3.6V lith = 10.8V~~
 - ~~replace SBE37 internal batteries BG 06/03~~
 - ~~get capture file for configuration BG 06/03~~
 - ~~recover data from Feb.8 - March 14 deployment BG 06/03~~
 - ~~Start deployment BG 06/03~~
- ~~Confirm Globalstar functioning Sentinel 1 #0-4466889-KT~~

Sentinel 5

- ~~review internal data~~
 - ~~download recent internal data; last download was March, 2024 AL m~~
 - ~~SR30 performance after flush() command and firmware update AL~~
 - ~~RMY wind performance after 2Hz update AL 5/31~~
 - ~~confirm SBG_reset works (remote command sent 5/30 15:46) KT~~
- ~~electronic chassis photos BG~~
- ~~confirm alignment of wind sensors and compass box; compass ~7 degrees off from SBG BG 6/5 - realigned Gill, RMY wind monitor. Check real-time after moving outside~~
 - ~~RMY 32500 compass calibration (highbay) BG 6/18~~
 - ~~Wind sensor alignment BG 7/1~~
- ~~confirm serial numbers; RMY wind monitor swap? KT/BG 5/30~~
- ~~upload internal data to buoy5 from deployment F bnb b ebruary 8 - March 14~~
- ~~Confirm ASIMET PRC, SBE37, Globalstar SPOT tracker are installed~~
 - ~~Sentinel 5 tower will be moved to Sentinel 6 buoy, so we actually need to confirm that SBE37 is installed on Sentinel 6 buoy BG installed 5/30~~
- ~~Troubleshoot Gill R3-50 issue; it has been working fine for the last month. Nothing obvious has changed - CR6 code is same, same sensor, same cable. New batteries 17V+ causing an issue? BG 06/01 tried switching with SIO R3-50, still issues. Will need to access electronic chassis on Monday to troubleshoot further. BG 6/05 added DCDC converter, replaced 3x desiccant, reinstalled electronic chassis, reinstalled towertop~~

- ~~If voltage drops below 16.7V during burnin:~~
 - ~~physically remove DC-DC converter on electronic chassis BG 6/18~~
- ~~Swap Sentinel 5 tower top and electronic chassis with Sentinel 6 BG/EJ 5/31~~
- ~~Move Sentinel 5 outside JS/BG 6/10 RG 6/18~~
- Sentinel 5 buoy mechanical
 - Install Pad eye
 - ~~Install buoy vane EJ~~
 - ~~Install Lithium batteries? no~~
 - ~~Install lifting bales and handles on Sentinel 5 tower stand BG 6/1 2.5" hardware for big handles, 2" for small handles~~
 - ~~Order 8x anodes from Stockroom and install BG 5/31~~
 - ~~Add handle looking hardware under Sentinel 5 buoy BG 6/1~~
- ~~SBE37~~
 - ~~download SeaTerm version 2 (important)~~
 - ~~RS232 vs RS485? baud rate? BG 6/4 RS232 9600~~
 - ~~Sync time, sampling rate confirm, confirm internal battery voltage BG 6/4~~
 - ~~recover data from Feb.8 - March 14 deployment BG 6/4 downloaded via serial cable, uploaded to buoy5~~
 - ~~Start deployment BG 6/4~~
 - ~~Connect to SBE37 and double check configuration, sync, start time BG 6/18~~
 - ~~sync/start SBE37, reinstall EH 7.8~~
 - upload configuration to buoy5
- ~~Attach "If found adrift contact WHOI" decal to Sentinel 5 buoy foam; previously Sentinel 6 EJ 6/12~~
- ~~Confirm Globalstar functioning Sentinel 5 # 0-4465675 BG 6/10~~

Sentinel 6

- SBE37 - SN#6375 located on WFIP "Sentinel#3" rack
 - install fresh batteries
 - configure - clear memory, sampling rate, sync time, start
 - upload configuration to buoy5
 - ~~install on Sentinel 6~~
- ~~Install shortwave on tower - located on WFIP "Sentinel#6" rack EJ~~
- Compass / PTB enclosure
 - ~~use jig to drill gland holes BG 5/24~~
 - ~~replace existing green compass board with one of the new RMY compass boards~~
 - ~~install glands. BG 5/24 used DC734 sealant on gland threads~~
 - ~~RMY32500 calibration - compass spin using highbay crane EH/BG 6/26~~
 - ~~locate / splice new cable (subconn 5pin) for this enclosure BG 6/25~~
 - ~~install on Sentinel 6 tower top BG 6/25~~
- Test new Iridium modem (installed). Previous modem would run for a day or two and then stop BG 7/1
- Needs a Sonic - in lab next to "Sentinel#6" rack, on loan from Luc Lenain SIO
 - record serial number [\[WFIP SN Google Doc\]](#) BG 7/8
 - R3-50 mounting clamps?

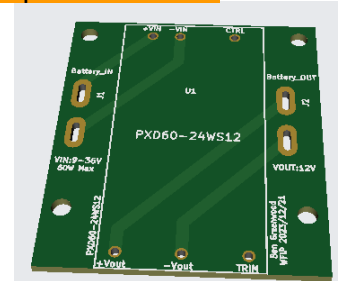
- Ersens to send in 1 set of R3-50 mounting clamps, add neoprene
 - ~~Emerson to paint other set for Sentinel 6, add neoprene~~
 - upload configuration to buoy5 BG TODO
 - ~~configure 10Hz output, ASCII 115200 BAUD w/ sonic temp, etc..~~ BG 6/04
 - ~~mount on towertop~~
 - ~~R3-50 cable splice~~ EJ 6/26, BG tested 6/27
 - order another R3-50 cable for hop-scotching buoys this summer. Otherwise, need to pull existing cable off of buoys
- ASIMET PRC#216 - located on "Sentinel#4" rack
 - install fresh batteries
 - clear memory, sync, start sensor
 - upload configuration to buoy5
 - ~~mount PRC and battery on buoy tower~~ EJ 6/26
- ~~confirm Globalstar SPOT tracker functioning - note that it will not transmit if stationary for a long period of time~~ BG 7/8
- ~~take photos of electronic chassis, upload to buoy5~~ BG 6/27
- place outside and continue burn-in once above tasks are complete
- confirm alignment of wind sensors and compass box
- SIO4A needs Jan.2024 firmware update (all ports 1-4) KT 6/26
- Sentinel 6 buoy mechanical
 - Install Pad eye
 - ~~Install Lithium batteries no~~
 - order mechanical parts for Lithium battery build
 - ~~Install buoy vane~~ EJ 7/1
 - Add chain/ weight to buoy

BG EVERYTHING BELOW HERE IS OLD

Sentinel Buoy

- Sentinel assembly
 - ~~Buoy stands arrived~~
 - ~~Buoys arrived.~~
 - ~~Chassis parts arrived~~
 - ~~Assemble 6x Sentinel buoy towers~~ Ray
 - gaskets arrived
 - ~~tower hardware~~
 - ~~tie rods~~
 - Paint buoy
 - 50x U channel - Ersen's ordered, arriving Dec.22
- Battery chassis
 - ~~60x batteries arrived~~
 - remaining parts
 - rubber bumper

- bottom plate
 - rubber dividers (every other)
 - standoffs
 - assembly 6x battery chassis
 - mount bus-bars EH
- Electronic chassis assembly
 - mounting strategy for ~~CR6, Serial Expander, Fuseboard,~~ **SBG EllipseD** EH
 - assemble
 - mount electronic chassis to well plate lid
 - mount bulkheads – **TODO drill 2x larger threaded holes for Scorpion bulkheads**
 - Wire bulkheads to fuseboard
 - Wire fuseboard to CR6
 - ~~Need CH200 cables campbellsci.com #20769 \$50 x 6~~
 - ~~CH200 mount~~
 - DC-DC converter after CH200, before Fuse board
 - ~~PCB~~
 - ~~order converters from Digikey~~
 - **mount, install DC DC converters**
 - **need current, voltage measuring device to replace CH200**
 - ~~Solder fuse board components~~
- CR6
 - **splice Comms bulkhead to Ethernet RJ45 to plug into CR6**
 - **WFIP Sentinel CR6 code**
 - ~~Sampling rate for IMU, Sonics? 5Hz vs 10Hz~~
 - **estimate for CR6 MB/day [Ben]**
 - ~~order 7x microSD (SanDisk 64GB Industrial)~~ BG ordered Dec.18, arrive Dec.21
- SBG Ellipse D
 - ~~IMUs x6 arrived, antennas x14 arrived, scorpion cables, bulkheads arrived~~
 - **Antenna mounts 3d printed. Ersen'S assemble and install**
 - Test, quantify heading accuracy given Halo diameter Ben
 - configure IMUs. Need antenna offsets
 - ~~order IMU to bulkhead adapter [mmcx to SMA] [Ben]~~
 - ~~SBG to Fuse board cable BG arrived.~~
 - **order SBG spare** Austin
- Vaisala WXT536
 - ~~WXT x3 arrived and configured.~~
 - ~~Order missing WXT cable [Ben]~~
 - ~~splice WXT536 cable to MCIL5M~~
 - **WXT536 cable to M12 vs cable straight into WXT** EH
 - **mounting solution Ersen'S 3D print pole mount**
 - **order WXT weatherproofing epoxy** EH
 - **weatherproof WXTs** EH
- Rotronic HC2A



- ~~HC2A x6 arrived, radiation shield x6 arrived.~~
 - ~~splice HC2A cable to MCIL5M~~
 - Ersen'S mount - submitted. Arrive Dec.22
- RMY Wind Monitor 05106 + Compass 32500
 - ~~Wind Monitor x6 and Compass x6 arrived.~~
 - ~~Install ASIMET custom rotor / bearings? Jason: no, 05106 uses different size, 05106 bearings are acceptable~~
 - ~~cable splice MCIL5M [need 6x cable, bulkheads from Dragonfish]~~
 - ~~Plugs for unused 32500 cable glands [Ray]~~
 - pole mount [Erser'S]
 - order Campbell enclosures for compass boards EH
- Gill R3-50
 - ~~Waiting for R3-50 to arrive. 3x R3-50s w/ cables arrived.~~
 - 2.25" mounting clamp [Erser'S]
 - ~~TODO splice MCBH8 to R3-50 cable~~
 - ~~TODO configure sensors~~
 - measure offsets from IMU
 - TODO - document configuration procedure to change baud rate
- RMY-81000
 - ~~Determine sampling rate: 4,5,8,10,16,20,32Hz~~
 - 3" mounting clamp [Erser'S]
 - ~~BG endcap 1x on hand, order remaining 2x~~
 - ~~Order MCBH8M for endcap. using 3x Face seal on hand~~
 - 8 pin M/F Subconn cable RMY 81000 boot/endcap to MCBH8F well bulkhead
 - TODO - configure sensors
 - ~~purchased Pelican 1606. TODO order 2x more~~
 - measure offsets from IMU
- PTB110
 - ~~PTB110 x6 and ENC100 x6 arrived~~
 - ~~install inside ENC100~~
 - ~~TODO GR6 code for analog PTB110~~
 - Mount [Erser'S]
 - splice PTB110 cable to MCIL5M
- Hukseflux IR20 and SR30
 - ~~IR20 x6 arrived. SR30 x6 arrived, configured.~~
 - dual Hukseflux mount Erser's
 - splice SR30 cable to MCIL5M
 - splice IR20 cable to MCIL8M

- Iridium Edge SBD modem
 - ~~1x arrived Order remaining 5x (BG arrived 9/14)~~
 - provision 5x modems [Ben]
 - mount [Ersen'S]
 - ~~test modems with existing Taoglas CR6 code~~
 - ~~splice modem cable to MCIL5M~~