

SV3-029: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-08-08T21:34:03.348Z	Glider Name	SV3-1167408762(SV3-029)
Tech(s)	cwahl	Organization	MBARI
Project	Blue Whale Observatory Bioacoustics	Ship/Op Area	Paragon - Monterey Bay

Software Information

Regulus Version	SV3-029, sn=1167408762, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	Wifi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (14m59.230s), virtualDevice=true, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060620290, starts=1, r=0, w=33, sessionAttempts=44, sessionErrs=10, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.3 (i=5), 1 queued msgs state=TALKING, sent=33, lastTx=3.365s, avgTxSize=104.4B, totalTx=3.364KB, received=0, powerState=ON (14m31.739s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]11 blocked messages, averageMessageQueueRate=14.246s, sent=33, totalBytesSent=3.364kB, received=0, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=tr		☒
Location	Using GPSUblox, declination=12.664002, failoverCounter=1, timeLastSwitchedGps=2023-08-08T21:21:45Z, cLockDt=14.354s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-029			☒
Float name	Tiny replacement hull			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
S4	Airmar			☒
Event definitions		Compare against standard list		☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms		☒
Escalation list created/populated				☒

Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	1619.668		☒
Solar Power Indicators: > 0	21.483 0.0		☒

	23.99	//		
	26.014	//		

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x31324716393237390034002c On=Y	OK //	31.2 //	119.8 //	Uptime: 0 days, 00:28:52 //		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=2, HW_SerNum=0x33324703313238340031002d On=Y	OK //	29.0 //	115.8 //	Uptime: 0 days, 00:16:36 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK //	26.3 //	280.8 //	Uptime: 0 days, 00:21:39 //		☒

Mechanical Checks

	Item/Procedure	Specifications	Comments	Initials
Float	Wet-mates connected/lubed	3M Silicone Lubricant Spray 3M ID No. 62-4678-4930-3		☒
	Connector covers secure			☒
	Drybox secure	Wiggle test		☒
	Contact info secure			☒
	Hull	Inspect, note condition		☒
	Skeg/Fin	Secure		☒
Sub	Hardware secure			☒
	Umbilical visual inspection	Free of voids/defects		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite, lock nuts, and seizing wire		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	450.0 //	Spins freely, slow and fast speeds //		☒
Rudder Range of Motion		Rudder moves freely and smoothly //		☒
Rudder right, left, center	Rudder(2023-08-08T21:34:00.338Z,desiredHeading=11.6,compass=36.4,rack=-11.4,post=-16.7rudderSta	 Right, Left, Center //		☒
Thruder Compass Correction	Thruder compass is corrected //	recommended NOT corrected //	LR says that this is okay //	☒
Fixed heading test (spin)	180 //	Avoidance Off, Note Heading Used //		☒
Waypoint course test (spin)	81 //	Avoidance Off, Note Waypoint Course Used //		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (11m58.142s), ampsPower=false, powerThreadActive=false //	Catch release buoy by hand //		☒
Octopus Cable 01	OK //	Must Pass //		☒
Octopus Cable 02	OK //	Must Pass //		☒
AIS Status	lastSeen=MMSI 367742810 (JOHN H MARTIN). Pos=36.804022, -121.786148. t=37:0:NOT_DEFINED, 2023-08-08T21:34:16.640Z, lengthErrs=0, latlonErrs=0, broadcastCount=126, lastRx=3.574s, numberObserved=7, averageRxRateMillis=6.887s //	If in harbor, must see MMSI //		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=19.4°C, Press=1017.5mb, Wind Speed=2.63kn, Wind Dir=259.3°. Heading=3.4° //		☒
UBLOX GPS	2023-08-08T21:34:35Z@36.802343, -121.7871298, lastRx=0.140s, quality=100, timeout=1m, nmeaValid=true, clockDt=14.620s, lastValidFix=2023-08-08T21:34:35Z@36.802343, -121.7871298, gpsWatchdogFailureCounter=0, ggaQCount=2=300, numSat:sma=10.71, std=0.45, min=10.00, max=11.00, n=300, hdp:sma=0.80, std=0.03, min=0.78, max=0.84, n=300, altitude:sma=-0.19, std=0.92, min=-1.70, max=2.00 //		☒
Airmar GPS	2023-08-08T21:34:35Z@36.8023917, -121.7871583, lastRx=0.280s, quality=80, timeout=5m, nmeaValid=true, clockDt=14.480s, lastValidFix=2023-08-08T21:34:35Z@36.8023917, -121.7871583, gpsWatchdogFailureCounter=0, ggaQCount=2=300, numSat:sma=10.00, std=0.00, min=10.00, max=10.00, n=300, hdp:sma=0.80, std=0.00, min=0.80, max=0.80, n=300, altitude:sma=8.70, std=3.53, min=-0.50, max=15.20 //		☒
Torpedo GPS	Not Available! //		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00 //		☒
Obstacle Avoidance Status	Enabled //		☒
Check alarms	*Out of bounds* red. All yellow/green //		☒

General Comments

Technician Signature:

Note: Once vehicle is launched the following tasks must be completed
1. Clear alarms

- 2. Log vehicle modifications in notebook
- 3. Vehicle on mission
- 4. Create *LAUNCHED* comment into WGMS
- 5. Upload photos to gallery website with album name: *YYYY-MM-DD VehicleName*

Submit

Print

Clear User Input