

SV3-006: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2024-02-28T16:58:29.688Z	Glider Name	SV3-1338599832(SV3-006)
Tech(s)	Jordan, Chris	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Paragon/Monterey Bay

Software Information

Regulus Version	SV3-006, sn=1338599832, 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, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (28m13.295s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☐
WGMS Iridium	IMEI:300434060022730, starts=1, r=1, w=47, sessionAttempts=52, sessionErrs=4, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.7 (i=5), 0 queued msgs state=TALKING, sent=47, lastTx=5.793s, avgTxSize=134.4B, totalTx=6.036kB, received=1, lastRx=11m39.402s, totalRx=0.038kB, powerState=ON (27m40.215s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	totalBytesReceived=0.038kB, lastRx=11m39.467s, 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=true, #accepted=1, #handled=1, lastRx=rx=2024-02-28T16:46:50.362Z, receiver=iridiumModem, headerByte=0x0A, length=39],UnsupportedMessageHandler[active=true, #handled=0], minimumMTU=338		☒
Location	Using GPSublox, declination=12.610818, failoverCounter=1, timeLastSwitchedGps=2024-02-28T16:32:33Z, clockDt=2.093s		☒
Tracker telemetry received	Battery (Volts)	15.93	☒
	Report Rate	4hrs	

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-006			☒
Float name	Hansen			☒
Glider name	Hansen			☒
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	Yes	Note area name(s) and enable alarms		☒
Escalation list created/populated				☒

Vehicle Status

Item/Procedure	Readings		Comments	Initials
Battery [Wh] > 700 Wh	1533.281			☒
Solar Power Indicators: > 0	13.293		Ok verified all 3 panels now ~20	☒
	0.0			
	9.597			
	1.697			

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3332471430393232001a0024 On=Y	OK	18.7	113.6	Uptime: 0 days, 00:29:23		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	20.0	110.6	Uptime: 0 days, 00:30:00		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	15.4	273.6	Uptime: 0 days, 00:22:06		☒

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		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	441.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-02-28T16:58:30.111Z,desiredHeading=334.8,compass=0.1,rack=-11.4,post=-12.2rudderSta	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected		☒
Fixed heading test (spin)		Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	220	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (25m46.298s), 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 338412569 (CALLIE). Pos=36.802603, -121.785908. t=36:0:NOT_DEFINED, 2024-02-28T16:58:33.647Z, lengthErrs=0, latlonErrs=0, broadcastCount=279, lastRx=1.156s, numberObserved=9, averageRxRateMillis=2.414s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=NaN°C, Press=NaNmb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=NaN°	Was turned off is now reporting	☒
UBLOX GPS	2024-02-28T16:58:37Z@36.8025812,-121.7870695,lastRx=0.139s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.148s, lastValidFix=2024-02-28T16:58:37Z@36.8025812,-121.7870695, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.93,std=0.26,min=9.00,max=10.00,n=300,hdop:sma=1.04,std=0.19,min=0.95,max=1.48,n=300,altitude:sma=1.37,std=1.31,min=-1.10,max=4.70,n=300		☒
Airmar GPS	Not Available!	Was turned off is now reporting	☒
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:

Jordan Caress

- 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