

SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-02-08T22:50:32.304Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	Jordan, Chris	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Paragon/Monterey Bay

Software Information

Regulus Version	SV3-121, sn=1531399927, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-31-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrusterAdjuster, Winch

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (28m29.906s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☐
WGMS Iridium	IMEI:300434060771430, starts=1, r=4, w=56, sessionAttempts=64, sessionErrs=4, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.3 (i=5), 1 queued msgs state=TALKING, sent=56, lastTx=6.469s, avgTxSize=93.0B, totalTx=5.086kB, received=4, lastRx=4m36.274s, avgRxSize=33.3B, totalRx=0.130kB, powerState=ON (28m1.778s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]415 blocked messages, averageMessageQueueRate=5.804s, sent=56, totalBytesSent=5.086kB, received=4, totalBytesReceived=0.130kB, lastRx=4m36.307s, 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=4, #handled=4, lastRx=rx=2023-02-		☒
Location	Using GPSUBlox, declination=12.711187, failoverCounter=2, timeLastSwitchedGps=2023-02-08T22:24:27Z, clockDt=8.491s		☒
Tracker telemetry received	Battery (Volts)	15.45	☒
	Report Rate	4hrs	

Configuration

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

Vehicle Status

Item/Procedure	Readings		Comments	Initials
Battery [Wh] > 700 Wh	1671.32			☒
Solar Power Indicators: > 0	14.797			☒
	0.0			
	20.693			
	20.91			

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x474850072038384d00390021 On=Y	OK	18.9	107.0	Uptime: 0 days, 00:33:57		☒
Domain_Name=Bat-0x33334707383736340044003b, Node=3, HW_SerNum=0x33334707383736340044003b On=Y	OK	17.8	113.3	Uptime: 0 days, 01:09:09		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	18.5	265.5	Uptime: 0 days, 00:26:12		☒

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	(1 bolts Seizing wire was subpar. Will be repaired prior to deployment.	☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	449.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-02-08T22:50:28.438Z,desiredHeading=1.1,compass=26,rack=-12.9,post=-9.8rudderStatus=	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected	ok	☐
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	21	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (25m57.982s), 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=36.804032, -121.786138. t=37:0:NOT_DEFINED, 2023-02-08T22:50:24.771Z, lengthErrs=0, latlonErrs=0, broadcastCount=92, lastRx=12.142s, numberObserved=5, averageRxRateMillis=13.801s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.8°C, Press=1039.4mb, Wind Speed=2.12kn, Wind Dir=63.1°. Heading=7.8°		☒
UBLOX GPS	2023-02-08T22:50:45Z@36.8025428,-121.7870633,lastRx=0.490s, quality=100, timeout=1m, nmeaValid=true, clockDt=8.055s, lastValidFix=2023-02-08T22:50:45Z@36.8025428,-121.7870633, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.46,std=0.64,min=10.00,max=12.00,n=300,hdop:sma=0.80,std=0.07,min=0.71,max=0.93,n=300,altitude:sma=2.00,std=0.82,min=-0.20,max=3.60		☒
Airmar GPS	2023-02-08T22:50:44.700Z@36.8025833,-121.78707,lastRx=0.839s, quality=80, timeout=5m, nmeaValid=true, clockDt=7.694s, lastValidFix=2023-02-08T22:50:44.700Z@36.8025833,-121.78707, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdop:sma=0.72,std=0.04,min=0.70,max=0.90,n=300,altitude:sma=11.44,std=3.18,min=5.90,max=18.3		☒
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 vehide is launched the following tasks must be completed

1. Clear alarms
2. Log vehide 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