

SV3 Pre-Launch Checklist

Date	2021-02-18T00:47:10.964Z	Glider Name	SV3-1531399927 (SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	KBB acoustics	Ship/Op Area	Paragon MB

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, LogAlarmReporter, PortForwarder, 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 (1w1d2h34m54.961s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=5, w=10062, sessionAttempts=11502, sessionErrs=1436, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.9 (i=3), 0 queued msgs state=TALKING, sent=10062, lastTx=1m38.406s, avgTxSize=111.4B, totalTx=1153.349kB, received=5, lastRx=1w1h10m31.519s, totalRx=0.165kB, powerState=ON (1w1d2h34m27.173s),		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=274, averageMessageQueueRate=1m11.999s, sent=10062, totalBytesSent=1153.349kB, received=5, totalBytesReceived=0.165kB, lastRx=1w1h10m31.511s, 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		☒
Location	Using GPSUblox, declination=12.900316, failoverCounter=1, timeLastSwitchedGps=2021-02-09T22:14:33Z, clockDt=1.948s		☒
Tracker telemetry received	Battery (Volts)	15.6 v	☒
	Report Rate	4hrs	

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-121 MBARI Spare			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	apu			☒
T1				☐

D1				☐
S1				☐
S2				☐
S3				☐
S4				☐
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	1729.151		☒
Solar Power Indicators: > 0	2.893 0.0 3.439 3.253		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	26.2	121.2	Uptime: 8 days, 02:58:09		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK	23.0	114.0	Uptime: 8 days, 02:35:41		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	20.1	187.9	Uptime: 8 days, 02:31:15		☒

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	0.0	Spins freely, slow and fast speeds	cruise	☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2021-02-18T00:47:06.479Z,desiredHeading=304.3,compass=12.6,rack=-19.9,post=-22.4rudd	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected	1r says okay	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒

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Waypoint course test (spin)	42	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=1, waitTime=1m30s, powerState=OFF (1w1h4m26s), 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 367457870 (SEA WAVE). Pos=36.800923, -121.787680. t=30:0:NOT_DEFINED, 2021-02-18T00:47:14.048Z, lengthErrs=0, latlonErrs=0, broadcastCount=47446, lastRx=1.629s, numberObserved=10,	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=1021.3mb, Wind Speed=4.94kn, Wind Dir=16.0°. Heading=353.7°		☒
UBLOX GPS	2021-02-18T00:47:18Z@36.8025168,-121.7870923,lastRx=0.265s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.297s, lastValidFix=2021-02-18T00:47:18Z@36.8025168,-121.7870923, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.85,std=0.36,min=10.00,max=11.00,n=300,hdop:sma=0.88,std=0.04,min=0.85,max=1.09,n=300,altitude:sma=2.03,std=2.31,min=-3.20,		☒
Airmar GPS	2021-02-18T00:47:18.200Z@36.8025117,-121.7870867,lastRx=0.162s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.456s, lastValidFix=2021-02-18T00:47:18.200Z@36.8025117,-121.7870867, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=0.92,std=0.04,min=0.90,max=1.30,n=300,altitude:sma=2.78,std=3.96,min=-5.80,		☒
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

ek80 installed, reprogrammed deployment last week delayed due to Paragon issues.

Technician Signature: cwahl

- 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