

Readme

SV3 Pre-Launch Checklist

Date	2019-12-05T22:44:37.632Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	LRAUV ESP tracking	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-121, sn=1531399927, Running Regulus 3.1.3, software version of 2018-07-30T22:31:19Z, production build 1, sv3, SOMDM3730-31-1880AKIR-A, (3.1.3)
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster, UbloxMast, Winch 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 (23h43m38.352s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=16, w=1106, sessionAttempts=1262, sessionErrs=146, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=2.9 (i=5), 1 queued msgs state=TALKING, sent=1106, lastTx=9.141s, avgTxSize=109.5B, totalTx=110.515kB, received=16, lastRx=1h11m57.163s, totalRx=0.479kB, powerState=ON (23h43m21.899s),		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=229, averageMessageQueueRate=46.380s, sent=1106, totalBytesSent=110.515kB, received=16, totalBytesReceived=0.479kB, lastRx=1h11m57.165s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=16, #handled=16,		☒
Location	Using GPSUblox, declination=13.011768, failoverCounter=1, timeLastSwitchedGps=2019-12-04T23:02:27Z, clockDt=0.340s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.7 Volts 4 hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	MBARI Spare CCU			☒
Float name	Hansen			☒
Glider name	Hansen Orig v200		Sub GPCTD installed but not cabled	☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1	Hotspot with MF DAT			☒
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	1714.998	CCU with one APU	☒
Solar Power Indicators: > 0	3.309 0.0 2.931 3.95	cloudy day looks good!	☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	26.0	119.6	Uptime: 0 days, 23:49:27		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	15.2	173.7	Uptime: 0 days, 23:39:37		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=4, HW_SerNum=0x474850072038384d00380042 On=Y	OK	20.2	114.0	Uptime: 0 days, 23:43:36		☒

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	some damage/scratches from last deployment	☒
	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	446.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder (2019-12-05T22:44:37.583Z, desiredHeading=324.2, compass=14.3, rack=-12.9, post=-14.9rud	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is NOT corrected	recommended NOT corrected		☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m, powerState=OFF (23h41m41.967s), 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 367012810 (SAMMY G). Pos=36.804978, -121.785797. t=52:0:UNDERWAY_ENGINE, 2019-12-05T22:44:32.120Z, lengthErrs=0, latlonErrs=0, broadcastCount=14130, lastRx=6.732s, numberObserved=9,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.3°C, Press=1017.5mb, Wind Speed=1.88kn, Wind Dir=4.7°. Heading=15.3°		☒
UBLOX GPS	2019-12-05T22:44:39Z@36.8023822,-121.7871667,lastRx=0.817s, quality=100, clockDt=0.130s,gpsWatchdogFailureCounter=0,ggaQCount:2=300,numSat:sma=9.43,std=0.52,min=9.00,max=11.00,hdop:sma=1.01,std=0.02,min=0.96,max=1.02,altitude:sma=0.62,std=0.80,min=-1.00,max=2.60		☒
Airmar GPS	2019-12-05T22:44:34.010Z@36.80236,-121.78715,lastRx=5.594s, quality=80, clockDt=4.864s,gpsWatchdogFailureCounter=0,ggaQCount:1=300,numSat:sma=9.22,std=0.80,min=7.00,max=10.00,hdop:sma=0.92,std=0.11,min=0.80,max=1.10,altitude:sma=-2.66,std=2.65,min=-7.80,max=3.90		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Out of the water; Unknown speed; ncc=0, nci=0, tec=0, aip=0.00, iwc=0, oowc=0		☒
Obstacle Avoidance Status	Disabled		☒
Check alarms	*Out of bounds" red. All yellow/green		☒

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