

Readme

SV3 Pre-Launch Checklist

Date	2019-12-17T23:56:54.888Z	Glider Name	SV3-1531399927 (SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	LRAUV Towout	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 (6m43.709s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=0, w=10, sessionAttempts=13, sessionErrors=2, wErrors=0, rErrors=0, cErrors=0, 10m ss avg=4.0 (i=5), 1 queued msgs state=TALKING, sent=10, lastTx=1.048s, avgTxSize=123.8B, totalTx=1.209kB, received=0, powerState=ON (6m27.141s), virtualDevice=true, Requested by:	cell off?	☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]4 blocked messages, averageMessageQueueRate=23.763s, sent=10, totalBytesSent=1.209kB, received=0, 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=0,		☒
Location	Using GPSUblox, declination=13.008414, failoverCounter=1, timeLastSwitchedGps=2019-12-17T23:51:33Z, clockDt=3.828s		☒
Tracker telemetry received	Battery (Volts) 15.7 Report Rate 4hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-272 Hansen			☒
Float name	Hansen			☒
Glider name	Hansen		Towcable installed	☒
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			

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	364.868	Will charge over night	☒
Solar Power Indicators: > 0	2.154 0.0 1.796 2.422	sun is setting...	☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	16.2	116.2	Uptime: 0 days, 00:09:36		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=4, HW_SerNum=0x474850072038384d00380042 On=Y	OK	16.0	112.5	Uptime: 0 days, 00:06:58		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	15.8	177.0	Uptime: 0 days, 00:03:57		☒

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(2019-12-17T23:56:17.939Z,desiredHeading=13,compass=214.1,rack=20,post=22.5rudderSta	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 (5m27.390s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	Failure	Must Pass	Worked on refresh!	☒
AIS Status	No AIS reports yet received	If in harbor, must see MMSI	Looking in this?	☐
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=13.5°C, Press=1018.2mb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=213.3°		☒
UBLOX GPS	2019-12-17T23:57:03Z@36.8023715,-121.7867713,lastRx=1.090s, quality=100, clockDt=3.364s,gpsWatchdogFailureCounter=0,ggaQCount:1=11,2=289,numSat:sma=10.38,std=0.93,min=8.00,max=11.00,hdop:sma=0.89,std=0.06,min=0.84,max=1.14,altitu de:sma=0.96,std=1.80,min=-3.00,max=3.60		☒
Airmar GPS	1970-01-01T00:00Z,lastRx=4m33.692s, quality=0, lastValidFix=2019-12-17T23:52:27.600Z@36.8023567,-121.7867767,gpsWatchdogFailureCounter=0,ggaQCount :,numSat:,hdop:,altitude:		☒
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		☒

General Comments

First MBARI Towbody deployment!
AIS not receiving data? I will look into it...

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