

SV3-172: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2024-02-27T21:21:43.134Z	Glider Name	SV3-1993437788(SV3-172)
Tech(s)	cwahl	Organization	MBARI
Project	Front Tracking	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-172, sn=1993437788, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster Not running: GPSasRudderCompass, Leopard_Camera_1_3_2, Leopard_Camera_1_3_3

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is WAITING.(no internet connectivity)	Still not working...	☐
WGMS Iridium	ON. 1 queued msgs (Max=1). Channel is TALKING. IMEI:300434061745310, consecutiveErrors=1, sessionErrors=264, writeErrors=0, readErrors=0, 10min ss avg=3.947215		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: New Waypoint #54: 36.840000000000000, -121.86000000000000. Have 675 blocked messages., averageMessageQueueRate=1m42.141s,		☒
Location	Using GPSUblox declination=12.520275, failoverCounter=1, timeLastSwitchedGps=2024-02-26T22:28:04Z, clockDt=1.158s		☒
Tracker telemetry received	Battery (bars) Report Rate	15.7 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	MBARI XEOS Spare #2			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-172			☒
Float name	Dev/test Wave Glider v100			☒
Glider name	Dev/test Wave Glider v100			☒
Umbilical Length	4 m			☒
G1	SMC-2			☒
G2	JRF APU			☒
G3	SMC-1 with float GPCTD			☒
T1				☐
D1				☐
S1	Hotspot with MF DAT?			☒
S2				☐
S3				☐
S4	Airamr			☒
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	1008.103		☒
Solar Power Indicators: > 0	29.342 0.0 31.343 33.487		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware	Temperature (°C)	Pressure (kPa)	Hardware Uptime		

	Status					
Domain_Name=Host, Node=1, HW_SerNum=0x33351053353639004f0056 On=Y	OK //	32.8 //	118.5 //	Uptime: 0 days, 22:57:36 //		☒
Domain_Name=Bat-0x33335114373330300035004f, Node=3, HW_SerNum=0x33335114373330300035004f On=Y	OK //	28.3 //	115.7 //	Uptime: 0 days, 23:04:45 //		☒
Domain_Name=Thrudder-1, Node=4, HW_SerNum=0x3333470738373634001f0023 On=Y	OK //	33.5 //	184.2 //	Uptime: 0 days, 22:52:45 //		☒
Domain_Name=PyIdInt-0x474850072038384d00380051, Node=15, HW_SerNum=0x474850072038384d00380051 On=Y	OK //	30.0 //	113.1 //	Uptime: 0 days, 03:17:52 //		☒
Domain_Name=PyIdInt-0x5030501420333933004b0033, Node=16, HW_SerNum=0x5030501420333933004b0033 On=Y	OK //	30.0 //	112.5 //	Uptime: 0 days, 03:17:30 //		☒

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	Free of cracks and dings		☒
	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 and Lock Nuts		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	0.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☐
Rudder right, left, center	Rudder(2024-02-27T21:21:40.921Z,desiredHeading=249.8,compass=134.3,rack=18,post=16.7rudderStatus)	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder 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=30s	Catch release buoy by hand		☒
Octopus Cable 01	OK //	Must Pass		☒
Octopus Cable 02	OK //	Must Pass		☒
AIS Status	MMSI 366934770 (NOAHS ARK). Pos=36.804510, -121.785873. t=30:0:FISHING, 2024-02-27T21:21:45.205Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.2°C, Press=1017.5mb, Wind Speed=2.37kn, Wind Dir=255.2°. Heading=127.2° //		☒
UBLOX GPS	2024-02-27T21:21:44Z@36.8023342,-121.787153,lastRx=0.982s,quality=100,clockDt=1.658s,failCount=0,ggaQCount:2=300,numSat:sma=10.88,std=0.32,min=10.00,max=11.00,hdop:sma=0.84,std=0.01,min=0.84,max=0.96,altitude:sma=1.24,std=0.75,min=-0.80,max=3.00 //		☒
Airmar GPS	2024-02-27T21:21:44Z@36.802365,-121.7871583,lastRx=0.820s,quality=80,clockDt=1.661s,failCount=0,ggaQCount:2=300,numSat:sma=10.68,std=0.49,min=9.00,max=11.00,hdop:sma=0.90,std=0.01,min=0.90,max=1.00,altitude:sma=1.56,std=1.19,min=-0.80,max=3.00 //		☒
Torpedo GPS	Not Available! //		☒
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false //		☒
Obstacle Avoidance Status	Disabled //	will reenable before deployment	☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

Umbilical damaged on last deployment due to compass/nav issues. Umbilical was replaced with a used JRF spare. rudder compass was drifting. I could not get instructions from LR on how to recal v100/v1.0 compass. Thrudder replaced with another JRF spare.

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