

SV3-172: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2025-06-04T16:12:24.029Z	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)	Not working...	☐
WGMS Iridium	ON. 1 queued msgs (Max=1). Channel is ATTEMPTING. IMEI:300434061745310, consecutiveErrors=8, sessionErrors=1710, writeErrors=0, readErrors=0, 10min ss avg=1.955799		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read 20518 bytes of file 76D1725CGZC (seek=0). Have 462 blocked messages., averageMessageQueueRate=36.740s		☒
Location	Using GPSUblox declination=12.384596, failoverCounter=1, timeLastSwitchedGps=2025-06-02T17:58:04Z, clockDt=0.050s		☒
Tracker telemetry received	Battery (bars)	15.7 volts	☒
	Report Rate	4 hours	

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	MBARI Spare Xeos Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-172 Development Wave Glider			☒
Float name	JRF Spare			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	SMC-2 Payload Hotspot 4			☒
G2	JRF APU			☒
G3	SMC-1 science payload with GPCTD and Ecopuck			☒
T1				☐
D1				☐
S1	Hotspot 2 with MF DAT			☒
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	1218.298 //		☒
Solar Power Indicators: > 0	6.664 0.0 5.84 6.795 // // // //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3335510533353639004f0056 On=Y	OK //	23.1 //	113.6 //	Uptime: 1 day, 22:18:38 //		☒
Domain_Name=Bat-0x33335114373330300035004f, Node=2, HW_SerNum=0x33335114373330300035004f On=Y	OK //	19.4 //	114.8 //	Uptime: 1 day, 22:27:48 //		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3334511539363837002e0039 On=Y	OK //	15.3 //	226.3 //	Uptime: 1 day, 22:13:25 //		☒
Domain_Name=PyIdInt-0x5030501420333933004b0033, Node=8, HW_SerNum=0x5030501420333933004b0033 On=Y	OK //	19.3 //	113.3 //	Uptime: 1 day, 22:02:43 //		☒
Domain_Name=PyIdInt-0x474850072038384d00380051, Node=7, HW_SerNum=0x474850072038384d00380051 On=Y	OK //	20.1 //	114.7 //	Uptime: 1 day, 22:03:12 //		☒

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	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		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	461.0 //	Spins freely, slow and fast speeds //		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-06-04T16:12:22.293Z,desiredHeading=247.8,compass=197.7,rack=13,post=17.3rudderStatu	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)	36.797, -121.847 //	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 367375360 (OCEAN ANGEL 3). Pos=36.804438, -121.785135. t=30:0:UNDERWAY_SAILING, 2025-06-04T16:12:21.745Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=40.0°C, Press=1012.4mb, Wind Speed=1.09kn, Wind Dir=96.3°. Heading=138.1°		☒
UBLOX GPS	2025-06-04T16:12:26Z@36.8025002,-121.7871342,lastRx=0.789s, quality=100,clockDt=0.113s,failCount=0,ggaQCount:2=300,numSat:sma=9.69,std=0.49,min=8.00,max=10.00,hdop:sma=0.92,std=0.11,min=0.83,max=1.18,altitude:sma=-0.89,std=0.93,min=-2.70,max=0.90		☒
Airmar GPS	2025-06-04T16:12:26.240Z@36.8025067,-121.7871167,lastRx=0.298s, quality=80,clockDt=0.341s,failCount=0,ggaQCount:1=149,2=151,numSat:sma=9.24,std=0.61,min=8.00,max=10.00,hdop:sma=0.95,std=0.08,min=0.90,max=1.20,altitude:sma=6.63,std=0.88,min=5.10,max=8.00		☒
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		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

Airmar air temp bad.
Compass triple checked after cal.

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

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Clear User Input