

SV3-172: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2026-05-18T21:31:41.775Z	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=0, sessionErrors=1568, writeErrors=0, readErrors=0, 10min ss avg=4.510943		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %G3Integrator.turnOffIntegratorPayload(). Have 575 blocked messages., averageMessageQueueRate=1m32.389s		☒
Location	Using GPSUblox declination=12.282406, failoverCounter=1, timeLastSwitchedGps=2026-05-13T21:17:58Z, cLockDt=1.186s		☒
Tracker telemetry received	Battery (bars)4 hours Report Rate15,4 volts		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	MBARI spare tracker 2			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-172 Dev Wave Glider			☒
Float name	Dev Wave Glider			☒
Glider name	Tiny retired v150			☒
Umbilical Length	4m			☒
G1	SMC-2 with Front Tracking code			☒
G2	JRF APU			☒
G3	SMC-1 GPCTD and Ecopuck			☒
T1				☐
D1				☐
S1				☐
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	1705.464		☒
Solar Power Indicators: > 0	6.048 0.0 5.065 7.258		☒

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

	Status					
Domain_Name=Host, Node=1, HW_SerNum=0x3335510533353639004f0056 On=Y	OK	35.6	117.9	Uptime: 5 days, 00:20:14		☒
Domain_Name=Bat-0x33335114373330300035004f, Node=2, HW_SerNum=0x33335114373330300035004f On=Y	OK	35.9	119.3	Uptime: 5 days, 00:19:18		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3334511539363837002e0039 On=Y	OK	22.0	232.3	Uptime: 5 days, 00:14:56		☒
Domain_Name=PydInt-0x474850072038384d00380051, Node=11, HW_SerNum=0x474850072038384d00380051 On=Y	OK	34.9	120.1	Uptime: 0 days, 00:02:03		☒
Domain_Name=PydInt-0x5030501420333933004b0033, Node=12, HW_SerNum=0x5030501420333933004b0033 On=Y	OK	34.9	116.5	Uptime: 0 days, 00:01:43		☒

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	436.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2026-05-18T21:31:38.336Z,desiredHeading=341.7,compass=17.3,rack=-12.9,post=-7.9rudderSta	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 368420000 (DAVID PACKARD). Pos=36.802435, -121.786582. t=90:0:MOORED, 2026-05-18T21:31:43.328Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=76.6°C, Press=1013.4mb, Wind Speed=4.06kn, Wind Dir=289.1°. Heading=323.5°		☒
UBLOX GPS	2026-05-18T21:31:46Z@36.8024248,-121.7871622,lastRx=0.879s, quality=100,clockDt=1.042s,failCount=0,ggaQCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,hdop:sma=0.91,std=0.00,min=0.91,max=0.92,altitude:sma=2.31,std=1.07,min=0.70,max=4.50		☒
Airmar GPS	2026-05-18T21:31:46.380Z@36.8024333,-121.7871333,lastRx=0.299s, quality=80,clockDt=1.416s,failCount=0,ggaQCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,altitude:sma=5.65,std=0.54,min=4.60,max=6.40		☒
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

Back to Front Tracking after a year!

Technician Signature:

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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