

Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2019-06-26T18:57:46.566Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s2, s3, g2, g3	Project	BOG/Sonardyne
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.015714, faild

Software Information

Id	Tiny, sn=794595959, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, production
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msg(s) (Max=2500). Channel is WAITING.(no internet connectivity)	☒
WGMS Iridium	ON. 1 queued msg(s) (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0,	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.9 Report Rate 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	n/a		☐
Hull RDF Frequency	n/a		☐
Tracker WGMS name	Tiny Tracker		☒
Drybox WGMS name	SV3-011 Tiny		☒
Float name	Tiny		☒
Glider name	Tiny v200		☒
Thruster Serial Number	2c001c	Last 6 digits of Hardware ID found on AMPS page	☒
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	Initials
Battery [Wh] > 700 Wh	863.569	☒
Solar Power Indicators: > 0	6.405 0.0 15.355 0.262	☒

Item/Procedure	Readings				Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	28.3	116.9	Uptime: 0 days, 01:39:20	☒
Domain_Name=Thruster-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	20.4	157.5	Uptime: 0 days, 01:34:49	☒
Domain_Name=PydInt-0x33324703313238340023002c, Node=6, HW_SerNum=0x33324703313238340023002c On=Y	OK	28.2	115.0	Uptime: 0 days, 01:26:36	☒

Domain_Name=PyldInt-0x3332470932363032002b0025, Node=7, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	22.3	120.6	Uptime: 0 days, 01:26:14	☒

Mechanical Checks

	Item/Procedure	Specifications	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	☒
	Roll pins inserted	Flushed with surface	☒
	Wings	Hardware secure with Loctite and Lock Nuts	☒
	Thruder	Hardware secure	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	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(2019-06-26T18:57:42.487Z,desiredHeading=355.5,compass=45.8,rack=-12.9,post=-16rudd	Right, Left, Center	☒
Thruder Compass Correction	Thruder compass is 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	Catch release buoy by hand	☒
Octopus Cable 01	OK	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 366966550 (OCEAN ANGEL 2). Pos=36.804595, -121.785823. t=30:0:NOT_DEFINED, 2019	If in harbor, must see MMSI	☒
Photo Document			☐

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Init
WX reporting	Temp=17.7°C, Press=1017.4mb, Wind Speed=4.20kn, Wind Dir=232.8°. Heading=35.3°	☒
UBLOX GPS	2019-06-26T18:57:53Z@36.8009722,-121.7887142, lastRx=0.242s, quality=100, clockDt=0.379s	☒
Airmar GPS	2019-06-26T18:57:52.400Z@36.8009467,-121.78868, lastRx=0.527s, quality=80, clockDt=0.980s	☒
Torpedo GPS	2019-06-26T18:57:45Z@36.800943,-121.7887285, lastRx=8.161s, quality=65, clockDt=8.381s	☒
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false	☒
Obstacle Avoidance Status	Enabled	☒
RDF beacon tested w/receiver		☐
Check alarms	"Out of bounds" red. All yellow/green	☒

Comments

S2 GPCTD plus DO, S3 pCO2 plus pH
 G2 ECOPUCK (not working) plus VR2C, G3 Sonardyne MF payload
 Need to check Tiny's lower umbilical joint!

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*

Save & Submit

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