

Tiny: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2020-02-03T16:30:17.549Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS/JRF	Ship/Op Area	Paragon MB

Software Information

Regulus Version	Tiny, sn=794595959, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING. (110/110 success rate) sleepTime=60000 packetSize=8192		☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0, sessionErrors=0, writeErrors=0, readErrors=0, 10min ss avg=4.167861		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read file transaction closed. Have 0 blocked messages., averageMessageQueueRate=28.590s		☒
Location	Using GPSublox declination=12.951631, failoverCounter=1, timeLastSwitchedGps=2020-02-03T15:46:04Z, clockDt=0.566s		☒
Tracker telemetry received	Battery (bars)16.04 VoltsReport Rate4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Tiny SV3-011			☒
Float name	Tiny			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	JRF microscope			☐
G2	Ecoppuck plus vr2c			☒
G3	JRF microscope			☒
T1				☐
D1				☐
S1				☐
S2	GPCTD plus D0			☒
S3	pCO2 plus ph			☒
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	863.928		☒
Solar Power Indicators: > 0	6.8750.05.9997.623		☒

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

2/3/2020

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Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	17.4	115.2	Uptime: 0 days, 00:48:22		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	16.6	146.7	Uptime: 0 days, 00:43:45		☒
Domain_Name=PyIdInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	14.9	116.4	Uptime: 0 days, 00:22:21		☒

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	spins in air	☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2020-02-03T16:30:16.635Z,desiredHeading=112.4,compass=62.5,rack=20,post=21.2rudderS	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	broken, replacement ordered	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	MMSI 366966550 (OCEAN ANGEL 2). Pos=36.804715, -121.785073. t=30:0:NOT_DEFINED, 2020-02-03T16:30:18.410Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=5.3°C, Press=1021.0mb, Wind Speed=2.65kn, Wind Dir=93.3°. Heading=70.9°		☒
UBLOX GPS	2020-02-03T16:30:19Z@36.8023507, -121.7871605,lastRx=0.442s, quality=100,clockDt=0.630s,failCount=0,ggaQCount:2=300,numSat:sma=12.00,std=0.00,min=12.00,max=12.00,hdop:sma=0.74,std=0.03,min=0.72,max=0.83,altitude:sma=1.25,std=0.38,min=0.50,max=2.10		☒
Airmar GPS	2020-02-03T16:30:18.300Z@36.8023533, -121.7871583,lastRx=0.983s, quality=80,clockDt=1.340s,failCount=0,ggaQCount:1=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,hdop:sma=1.10,std=0.00,min=1.10,max=1.10,altitude:sma=0.42,std=0.91,min=-2.70,max=2.90		☒
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

Technician Signature: cwah1

- 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