

Tiny: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2020-02-26T18:14:04.787Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	BOG Timeseries	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. (62/66 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=4.330238		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read file transaction closed. Have 0 blocked messages., averageMessageQueueRate=23.397s		☒
Location	Using GPSublox declination=12.944968, failoverCounter=1, timeLastSwitchedGps=2020-02-26T17:51:02.970Z, clockDt=0.800s		☒
Tracker telemetry received	Battery (bars)15.99 VoltsReport Rate4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-011 Tiny			☒
Float name	Tiny			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1				☐
G2	Eco puck and VR2C			☒
G3	Sonardyne Acoustic Modem MF			☒
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	687.829		☒
Solar Power Indicators: > 0	24.435 0.0 20.61 25.558		☒

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

Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK //	19.4 //	116.8 //	Uptime: 0 days, 00:27:11 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	23.2 //	164.5 //	Uptime: 0 days, 00:22:37 //		☒
Domain_Name=PydInt-0x33324703313238340023002c, Node=6, HW_SerNum=0x33324703313238340023002c On=Y	OK //	18.0 //	112.9 //	Uptime: 0 days, 00:06:29 //		☒
Domain_Name=PydInt-0x3332470932363032002b0025, Node=7, HW_SerNum=0x3332470932363032002b0025 On=Y	OK //	17.4 //	117.9 //	Uptime: 0 days, 00:06:23 //		☒

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	452.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2020-02-26T18:14:00.405Z,desiredHeading=326.9,compass=16.6,rack=-12.9,post=-15rudde	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)	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=36.804712, -121.785060. t=30:0:NOT_DEFINED, 2020-02-26T18:14:06.769Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=19.3°C, Press=1027.5mb, Wind Speed=1.71kn, Wind Dir=233.5°. Heading=29.7° //		☒
UBLOX GPS	2020-02-26T18:14:07Z@36.8024343,-121.7871557,lastRx=0.701s,quality=100,clockDt=0.789s,failCount=0,ggaQCount:2=300,numSat:sma=11.88,std=0.32,min=11.00,max=12.00,hdop:sma=0.88,std=0.10,min=0.79,max=1.05,altitude:sma=2.16,std=1.26,min=-1.10,max=4.80 //		☒
Airmar GPS	2020-02-26T18:14:07Z@36.8024233,-121.7871183,lastRx=0.441s,quality=80,clockDt=0.799s,failCount=0,ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,hdop:sma=0.90,std=0.00,min=0.90,max=0.90,altitude:sma=3.58,std=0.55,min=2.60,max=4.50 //		☒
Torpedo GPS	Not Available! //		☒
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false //	turned off	☐
Obstacle Avoidance Status	Enabled //		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

 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