

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-05-13T22:38:39.016Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	Tiny, sn=794595959, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, LogAlarmReporter, PortForwarder, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (1h23m55.871s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	3G no longer working...	☐
WGMS Iridium	IMEI:300434060708190, starts=1, r=15, w=124, sessionAttempts=149, sessionErrs=11, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.4 (i=5), 1 queued msgs state=TALKING, sent=124, lastTx=1.374s, avgTxSize=100.8B, totalTx=12.719kB, received=15, lastRx=14m1.237s, avgRxSize=37.0B, totalRx=0.593kB, powerState=ON (1h23m27.157s), virtualDevice=true, Requested by: iridiumModem,		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]665 blocked messages, averageMessageQueueRate=34.212s, sent=124, totalBytesSent=12.719kB, received=15, totalBytesReceived=0.593kB, lastRx=14m1.235s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=15, #handled=15, lastRx=rx=2022-05-13T22:24:37.789Z,		☒
Location	Using GPSUblox, declination=12.781636, failoverCounter=1, timeLastSwitchedGps=2022-05-13T21:17:03Z,		☒
Tracker telemetry received	Battery (Volts)	15.6 volts	☒
	Report Rate	4 hours	

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			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 with MF DAT			☒
S2	GPCTD plus DO			☒
S3	pCO2 plus pH			☒
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				☒
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Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	910.657		☒
Solar Power Indicators: > 0	9.455 0.0 1.33 7.709		☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	23.5	117.9	Uptime: 0 days, 01:26:20		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	21.7	154.6	Uptime: 0 days, 01:18:08		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	23.2	116.1	Uptime: 0 days, 01:09:06		☒

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	Inspect, note condition		☒
	Skeg/Fin	Secure		☒
Sub	Hardware secure		The new bushings look good!	☒
	Umbilical visual inspection	Free of voids/defects		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite, lock nuts, and seizing wire		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	451.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-05-13T22:38:38.015Z,desiredHeading=257.4,compass=41.4,rack=-12.9,post=-15.1rudderStatus=0000000B,)	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says that this is okay	☒
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=1m30s, powerState=OFF (1h21m26.615s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Page doesn't work on Firefox skip...	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 366966550 (OCEAN ANGEL 2). Pos=36.804902, -121.784935. t=30:0:NOT_DEFINED, 2022-05-13T22:38:34.616Z, lengthErrs=0, latlonErrs=0, broadcastCount=821, lastRx=7.399s, numberObserved=9, averageRxRateMillis=2.569s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.4°C, Press=1018.7mb, Wind Speed=6.57kn, Wind Dir=305.1°. Heading=26.1°		☒
UBLOX GPS	2022-05-13T22:38:47Z@36.8023383,-121.7871575,lastRx=0.510s, quality=100, timeout=1m, nmeaValid=true, clockDt=4.954s, lastValidFix=2022-05-13T22:38:47Z@36.8023383,-121.7871575, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.72,std=0.50,min=10.00,max=12.00,n=300,hdop:sma=0.8		☒
Airmar GPS	2022-05-13T22:38:47Z@36.8023333,-121.787115,lastRx=0.498s, quality=80, timeout=5m, nmeaValid=true, clockDt=4.937s, lastValidFix=2022-05-13T22:38:47Z@36.8023333,-121.787115, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.99,std=0.11,min=9.00,max=10.00,n=300,hdop:sma=0.90,		☒
Torpedo GPS	Not Available!		☒

Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
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*