

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-09-01T23:28:19.272Z	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 (55m26.174s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=8, w=83, sessionAttempts=92, sessionErrs=4, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.9 (i=5), 0 queued msgs state=TALKING, sent=83, lastTx=3.238s, avgTxSize=97.0B, totalTx=7.858kB, received=8, lastRx=1m37.857s, avgRxSize=37.3B, totalRx=0.291kB, powerState=ON (54m57.314s), virtualDevice=true, Requested by:		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]374 blocked messages, averageMessageQueueRate=39.387s, sent=83, totalBytesSent=7.858kB, received=8, totalBytesReceived=0.291kB, lastRx=1m37.877s, 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=8, #handled=8, lastRx=rx=2021-		☒
Location	Using GPSUblox, declination=12.847466, failoverCounter=1, timeLastSwitchedGps=2021-09-01T22:35:03Z, clockDt=2.619s		☒
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	Tiny SV3-011			☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1				☐
G2	EcoPuck plus VR2C			☒
G3				☐
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	856.05 //		✓
Solar Power Indicators: > 0	15.265 0.0 20.02 18.039 // // // //		✓

Item/Procedure	Readings					Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime			
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK //	24.7 //	119.1 //	Uptime: 0 days, 00:57:49 //			✓
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	23.8 //	157.2 //	Uptime: 0 days, 00:50:11 //			✓
Domain_Name=PyIdInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK //	22.3 //	115.3 //	Uptime: 0 days, 00:48:51 //			✓

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			✓
	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	455.0 //	Spins freely, slow and fast speeds		✓
Rudder Range of Motion		Rudder moves freely and smoothly		✓
Rudder right, left, center	Rudder(2021-09-01T23:28:17.094Z,desiredHeading=313.7,compass=19.1,rack=-12.9,post=-15.8rudd	Right, Left, Center		✓
Thruder Compass Correction	Thruder compass is corrected //	recommended NOT corrected	LR says 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 (52m55.485s), ampsPower=false, powerThreadActive=false //	Catch release buoy by hand		✓
Octopus Cable 01	OK //	Must Pass		✓
Octopus Cable 02	OK //	Must Pass		✓
AIS Status	lastSeen=MMSI 367742810 (JOHN H MARTIN). Pos=36.804620, -121.785677. t=37:0:NOT_DEFINED, 2021-09-01T23:28:25.403Z, lengthErrs=0, latlonErrs=0, broadcastCount=442, lastRx=1.410s, numberObserved=5, averageRxRateMillis=3.110s	If in harbor, must see MMSI		✓
Photo Document				✓

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.9°C, Press=1012.7mb, Wind Speed=3.34kn, Wind Dir=248.5°. Heading=28.7° //		✓
UBLOX GPS	2021-09-01T23:28:30Z@36.8024788,-121.7871098,lastRx=0.149s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.140s, lastValidFix=2021-09-01T23:28:30Z@36.8024788,-121.7871098, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.39,std=0.49,min=9.00,max=10.00,n=300,hdop:sma=0.93,std=0.02,min=0.90,max=0.95,n=300,altitude:sma=-0.79,std=3.69,min=-5.60,m		✓
Airmar GPS	2021-09-01T23:28:30.100Z@36.8024983,-121.7871117,lastRx=0.035s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.212s, lastValidFix=2021-09-01T23:28:30.100Z@36.8024983,-121.7871117, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=8.28,std=0.45,min=8.00,max=9.00,n=300,hdop:sma=1.10,std=0.01,min=1.10,max=1.30,n=300,altitude:sma=-0.38,std=2.35,min=-5.50,ma		✓
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		✓

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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