

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-03-17T23:14:20.067Z	Glider Name	SV3-794595959 (Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	Station M	Ship/Op Area	Shana Rae 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 (1d2h42m50.900s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=19, w=2641, sessionAttempts=3432, sessionErrs=776, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.1 (i=5), 0 queued msgs state=TALKING, sent=2641, lastTx=56.066s, avgTxSize=112.0B, totalTx=284.659kB, received=19, lastRx=6m18.974s, avgRxSize=39.5B, totalRx=0.733kB, powerState=ON		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=638, averageMessageQueueRate=29.056s, sent=2641, totalBytesSent=284.659kB, received=19, totalBytesReceived=0.733kB, lastRx=6m18.982s, 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=19, #handled=19,		☒
Location	Using GPSUblox, declination=12.891148, failoverCounter=1, timeLastSwitchedGps=2021-03-16T20:33:33Z, clockDt=-0.127s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.7 4 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	Eocpuck plus VR2C			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot with MF and LF directional xdcrs			☒
S2	GPCTD plus D0			☒
S3			C02 standard leaking payload removed	☒
S4				☐
Event definitions		Compare against standard list		☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms		☒
Escalation list created/populated				☒

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	839.894		☒
Solar Power Indicators: > 0	12.899		
	0.0		
	12.768		☒
	13.079		

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	27.3	119.4	Uptime: 1 day, 02:45:49		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	17.3	150.9	Uptime: 1 day, 02:38:15		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	21.9	112.6	Uptime: 1 day, 01:43:55		☒

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	442.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2021-03-17T23:14:17.036Z,desiredHeading=272.5,compass=22.4,rack=-12.9,post=-14rudder	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says okay	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	42	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (1d2h40m22.837s), 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 368159560 (NOVA). Pos=36.800542, -121.787223. t=37:0:NOT_DEFINED, 2021-03-17T23:14:11.906Z, lengthErrs=4, latlonErrs=0, broadcastCount=5881, lastRx=12.118s, numberObserved=9, averageRxRateMillis=19.953s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=12.3°C, Press=1017.5mb, Wind Speed=5.75kn, Wind Dir=210.3°. Heading=29.8°		☒
UBLOX GPS	2021-03-17T23:14:24.300Z@36.802556,-121.7870678, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=10.11,std=0.32,min=10.00,max=11.00,n=300,hdop:sma=1.00,std=0.01,min=0.84,max=1.01,n=300,altitude:sma=3.56,std=0.83,min=1.80,max=5.90,n=300		☒
Airmar GPS	2021-03-17T23:14:24.300Z@36.8025633,-121.7870767,lastRx=0.178s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.211s, lastValidFix=2021-03-17T23:14:24.300Z@36.8025633,-121.7870767, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=9.91,std=0.57,min=9.00,max=11.00,n=300,hdop:sma=1.02,std=0.08,min=0.90,max=1.20,n=300,altitude:sma=1.26,std=0.17,min=1.00,max		☒
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

pCO2 and pH sensor removed due to leaking CO2 standard tank
radar reflector removed also due to CO2 line damage risk

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