

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2019-11-14T18:25:59.017Z	Glider Name	SV3-1553177065(SV3-272)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-272, sn=1553177065, 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. (83/88 success rate) sleepTime=60000 packetSize=8192		☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=47, writeErrors=0, readErrors=0, 10min ss avg=1.945628		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %cellModem.requestedByPilot(1). Have 0 blocked messages., averageMessageQueueRate=1h33m21.927s		☒
Location	Using GPSUblox declination=12.975294, failoverCounter=1, timeLastSwitchedGps=2019-11-13T18:24:03Z, clockDt=1.028s		☒
Tracker telemetry received	Battery (bars) 15.75 volts Report Rate 4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-272 Hansen			☒
Float name	Tiny			☒
Glider name	Tiny v1.5			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck plus VR2C		SMC mem full?	☒
G3				☐
T1				☐
D1				☐
S1				☐
S2	GPCTD plus D0			☒
S3	pCO2 plus pH		CO2 standard refilled, pH batts replaced	☒
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	843.048		☒
Solar Power Indicators: > 0	7.655 0.0 5.832 6.1		☒

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

	Status					
Domain_Name=Host, Node=1, HW_SerNum=0x343747033038363800180028 On=Y	OK //	22.5 //	113.9 //	Uptime: 1 day, 00:05:16 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	18.8 //	156.3 //	Uptime: 1 day, 00:01:04 //		☒
Domain_Name=PydInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK //	20.1 //	119.3 //	Uptime: 0 days, 18:21:32 //		☒

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	451.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2019-11-14T18:25:58.728Z,desiredHeading=229.6,compass=202.5,rack=13,post=19.5rudder	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	Not working replace!	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	MMSI 367766000 (WESTERN FLYER). Pos=36.802402, -121.787048. t=33:0:UNDERWAY_ENGINE, 2019-11-14T18:25:53.005Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.0°C, Press=1019.8mb, Wind Speed=4.89kn, Wind Dir=145.6°.		☒
UBLOX GPS	2019-11-14T18:26Z@36.802351,-121.7867832,lastRx=0.974s,quality=100,clockDt=1.187s,failCount=0,ggaQCount=2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,hdop:sma=0.98,std=0.05,min=0.88,max=1.48,altitude:sma=3.14,std=0.15,min=2.70,max=3.50		☒
Airmar GPS	2019-11-14T18:26:00.100Z@36.8023567,-121.7868067,lastRx=0.657s,quality=80,clockDt=1.109s,failCount=0,ggaQCount=2=300,numSat:sma=9.00,std=0.06,min=8.00,max=9.00,hdop:sma=1.10,std=0.01,min=1.10,max=1.20,altitude:sma=7.38,std=0.66,min=6.40,max=8.70		☒
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

WG Tiny is running CCU 272 Hansen for this deployment

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