

SV3-272: SV3 Pre-Launch Checklist

[Readme](#)

SV3 Pre-Launch Checklist

Date	2019-09-26T00:00:27.698Z	Glider Name	SV3-1553177065(SV3-272)
Tech(s)	cwahl	Organization	MBARI
Project	CANON	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. (88/88 success rate) sleepTime=60000 packetSize=8192		☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=11, writeErrors=0, readErrors=0, 10min ss avg=4.153384		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read file transaction closed. Have 0 blocked messages., averageMessageQueueRate=7m20.692s		☒
Location	Using GPSUblox declination=12.989428, failoverCounter=1, timeLastSwitchedGps=2019-09-25T18:22:47Z, clockDt=0.745s		☒
Tracker telemetry received	Battery (bars) Report Rate 15.99 volts 4hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-272 Hansen			☒
Float name	SV3-272 Hansen			☒
Glider name	SV3-272 Hansen			☒
Umbilical Length	4m			☒
G1	Float/Sub GPCTD			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
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	901.44 //		☒
Solar Power Indicators: > 0	1.028 // 0.0 // 1.085 // 1.21 //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x343747033038363800180028 On=Y	OK //	36.0 //	119.9 //	Uptime: 0 days, 05:41:10 //		
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK //	30.6 //	219.2 //	Uptime: 0 days, 05:36:57 //		
Domain_Name=PyldInt-0x474850072038384d00380051, Node=5, HW_SerNum=0x474850072038384d00380051 On=Y	OK //	33.2 //	126.0 //	Uptime: 0 days, 00:02:14 //		

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		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments
Thruster Spin	454.0 //	Spins freely, slow and fast speeds //	cruise speed
Rudder Range of Motion		Rudder moves freely and smoothly	
Rudder right, left, center	Rudder(2019-09-26T00:00:26.028Z,desiredHeading=337.4,compass=27.5,rack=-12.9,post=-12.2rud 	Right, Left, Center	
Thrudder Compass Correction	Thrudder 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 //	
	OK //		

Octopus Cable 01		Must Pass	
Octopus Cable 02	OK	Must Pass	
AIS Status	MMSI 338415000 (RACHEL CARSON). Pos=36.802143, -121.787175. t=70:0:UNDERWAY_ENGINE, 2019-09-25T23:26:51.380Z	If in harbor, must see MMSI	
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=22.2°C, Press=1006.9mb, Wind Speed=1.05kn, Wind Dir=111.9°. Heading=23.4°		☒
UBLOX GPS	2019-09-26T00:00:29Z@36.8024122, -121.7871585, lastRx=0.803s, quality=100, clockDt=0.992s, failCount=0, ggaQCount:2=300, numSat:sma=11.64, std=0.48, min=11.00, max=12.00, hdop:sma=0.92, std=0.07, min=0.78, max=0.99, altitude:sma=0.72, std=0.55, min=-0.50, max=1.60		☒
Airmar GPS	2019-09-26T00:00:29.100Z@36.8024033, -121.7871717, lastRx=0.589s, quality=80, clockDt=0.897s, failCount=0, ggaQCount:1=300, numSat:sma=10.39, std=0.68, min=9.00, max=11.00, hdop:sma=1.06, std=0.07, min=1.00, max=1.40, altitude:sma=1.66, std=0.38, min=1.00, max=2.30		☒
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

G1 sub/float GPCTD plus DO
CCU FWD, with KBB EK80 in the after Wetbay for CANON

Technician Signature: cwahl

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