

SV3-029: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2023-05-12T21:47:03.947Z	Glider Name	SV3-1167408762(SV3-029)
Tech(s)	cwahl	Organization	MBARI
Project	CANON BIOACOUSTICS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-029, sn=1167408762, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32
Plugins	Running: AirmarWeather, Leopard_Camera_1_3_2, Leopard_Camera_1_3_3, 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 WAITING.(no internet connectivity)	Not working still...	☐
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060620290, consecutiveErrors=0, sessionErrors=15, writeErrors=0, readErrors=0, 10min ss avg=4.119250		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read 13497 bytes of file 45953E7AGZP (seek=0). Have 215 blocked messages., averageMessageQueueRate=0.044s		☒
Location	Using GPSUblox declination=12.605014, failoverCounter=1, timeLastSwitchedGps=2023-05-12T21:22:52Z, clockDt=2.956s		☒
Tracker telemetry received	Battery (bars)15.9 volts Report Rate4 hours		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-029			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4 m			☒
G1				☐
G2				☐
G3	JRF APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
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				☒

Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	1673.998		☒
Solar Power Indicators: > 0	22.862 0.0 23.831 23.218		☒

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

Domain_Name=Host, Node=1, HW_SerNum=0x31324716393237390034002c On=Y	OK	23.4	116.1	Uptime: 0 days, 00:28:15		☒
Domain_Name=Thrudder-2, Node=2, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	19.9	259.7	Uptime: 0 days, 00:24:34		☒
Domain_Name=Bat-0x33334707383736340044003b, Node=3, HW_SerNum=0x33334707383736340044003b On=Y	OK	22.1	115.5	Uptime: 0 days, 00:14:42		☒

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	Initials
Thruster Spin	449.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-05-12T21:47:00.164Z,desiredHeading=251.2,compass=201.1,rack=13,post=18.6rudderStatus)	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is NOT corrected	recommended NOT corrected	LR says that this is okay	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	81	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=30s	Catch release buoy by hand		☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	MMSI 368247080 (KAHUNA). Pos=36.800957, -121.786905. t=60:0:NOT_DEFINED, 2023-05-12T21:47:02.043Z	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.9°C, Press=1018.8mb, Wind Speed=3.13kn, Wind Dir=285.2°. Heading=179.8°		☒
UBLOX GPS	2023-05-12T21:47:03Z@36.8024178,-121.7871577,lastRx=0.646s,quality=100,clockDt=2.718s,failCount=0,ggaQCount:2=300,numSat:sma=10.51,std=0.51,min=9.00,max=12.00,hdop:sma=1.04,std=0.02,min=1.04,max=1.18,altitude:sma=-0.59,std=0.70,min=-2.20,max=0.70		☒
Airmar GPS	2023-05-12T21:47:03Z@36.8024833,-121.7871533,lastRx=0.475s,quality=80,clockDt=2.723s,failCount=0,ggaQCount:1=2,2=298,numSat:sma=12.00,std=0.00,min=12.00,max=12.00,hdop:sma=0.77,std=0.06,min=0.70,max=1.10,altitude:sma=16.54,std=2.66,min=11.70,max=22.30		☒
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

CCU SV3-121 developed a leak... CCU SV3-029 was installed to fulfil this mission.

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