

Franklin Underway Log Sheet

	Time	Routine	Check
<p>Date <u>8 Sept.</u></p> <p>16-20</p> <p>Position: <u>80 mi. S.E. of Atlantic City N.J.</u></p> <p>Weather: <u>20-25 kts wind</u></p>	1600	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Vent Main Ballast Tanks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> </ul>	
<p>1650 Completed rig for dive</p> <p>1652 Opened vents - dive #43. Sounding 75 fath.</p> <p>1700 Drifting slow to slow dead</p> <p>1711 Bottomed - depth 150 meters Ext. temp. 11.5°C Current about 1/2 kt from the North.</p> <p>1815 Privateer reports we must travel 130° 3.7 mi. to arrive at marker buoy for Franklin Institute.</p> <p>Observers from Franklin Institute + Sandy Hook Marine Lab are using various viewpoints + lights</p> <p>Crew: Ray Gregory Don Kasintir Erwin Aebersold Chub Davey - Franklin Inst. Bob Erb - " " Dan Pingola - " " Chuck Gibson - Sandy Hook Bob Wichter - " "</p>	1650 1652 1700 1711 1815	<ul style="list-style-type: none"> <li>Flask #1 _____; #2 _____</li> <li>#3 _____; #4 _____</li> <li>#5 _____; #6 _____</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>	
	1700	<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	✓
	1800	<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	✓ NO
	1900	<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	✓ NO

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- 1915 So far we have seen starfish, spider  
crabs, sea anemones, lobsters, and squid, - euphaus ;  
also anchovies + starfish
- 1945 operating plankton sampler
- 1947 SAS Leaking slightly

W.K.

Franklin Underway Log Sheet

Time Routine Check

Date 8 Sept 69

20-24

Position: Approx. 80 mi SE of Atlantic City

Weather: 20-25 kts wind

2000 on the bottom in 150 m. of water observing sea life for Franklin Inst.

2024 Drizzling shot to achieve neutral buoyancy prior to getting underway.

2027 Underway - will run at 100 ft. altitude on course 130° using motors 1 & 2 at 40 amps; CT Fm every 15 min

2215 CIC to 230 descending to 20' altitude <sup>(25amps)</sup> noticed a Lamprey with a suction hold on aft viewport - could see in his mouth

2227 bottom in sight

2230 Cruising at 220m about 10ft. altitude - motors 1 & 2 trimmed light bottom fairly smooth & dark - a few rocks

2245 Ext. temp 10°C Depth 220m

2228 ascending to 100' alt. & CIC to 130 increased speed to 40amps.

2345 Lost rudder

2400 Replac'd rudder fuse - OK <sup>26</sup> WTK

2000 - Check bilges, penetrators and main battery fuse boxes for water ✓  
 - Cycle MBT and VBT hull valves ✓  
 - Check hull valves for proper position ✓  
 - Check LOX tanks for leaks ✓  
 - Vent Main Ballast Tanks ✓  
 - Check emergency ballast hydraulic pressure ✓  
 - Check VBT's for pressure buildup ✓  
 - Air Flask readings <sup>none in</sup> (flasks in service) Service  
 Flask #1 \_\_\_\_\_; #2 \_\_\_\_\_;  
 #3 \_\_\_\_\_; #4 \_\_\_\_\_;  
 #5 \_\_\_\_\_; #6 \_\_\_\_\_  
 - Check equipment not in use in Off/Standby position ✓  
 - Check F.W. valves shut ✓  
 - Record battery readings NO  
 - Carbon Dioxide % 0.4  
 - Oxygen % 20.8  
 - Cabin Temperature 69  
 - Sea water temp. 12.0°C  
 - Cabin Humidity 71%  
 - Cabin Pressure 1.025  
 - Conduct contaminant checks NO

2100 - Vent MBT's ✓  
 - Check hydraulic pressure ✓  
 - Cycle MBT and VBT hull valves ✓

2200 - Vent MBT's no ✓  
 - Check hydraulic pressure ✓  
 - Cycle MBT and VBT hull valves no ✓

2300 - Vent MBT's O<sub>2</sub> % 20.8  
 - Check hydraulic pressure ✓  
 - Cycle MBT and VBT hull valves ✓

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		Time	Routine	Check
Date <u>9 Sept 69</u>		0000	-Check bilges, penetrators and main battery fuse boxes for water ✓	
00-04			-Cycle MBT and VBT hull valves ✓	
Position: <u>Approx. 80 mi. S.E. of Atlantic City</u>			-Check hull valves for proper position ✓	
Weather: <u>20 Kts wind, varying</u>			-Check LOX tanks for leaks ✓	
0023	Increased speed to 60 amps		-Vent Main Ballast Tanks <u>NO</u>	
0039	CLC to 050 beginning descent to 20' altitude.		-Check emergency ballast hydraulic pressure ✓	
0050	Rudder keeps blowing fuses using 2 motors in turn mode - both inverters Ext. temp 9°C AT 20 ft. alt. depth 275m Bottom murky and flat		-Check VBT's for pressure buildup ✓	
0121	Rudder stuck about 15° right		-Record air flask readings: Flask #1 <u>None in service</u> ; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____	
0130	Depth 280m.		-Check equipment not in use in Off/Standby position ✓	
0147	Ascending to 100' altitude, CLC course 130° heading out to deeper water.		-Check F.W. valves shut ✓	
0245	Descending to 20' altitude to observe bottom. CLC to 220°		-Record battery readings <u>NO</u>	
0248	Depth 375m Ext. temp 7°C	0100	-Carbon Dioxide % _____	
0315	Bottomed Depth 365m. Flushing port VBT		-Oxygen % <u>24.7</u>	
			-Cabin Temperature <u>66</u>	
			-Cabin Pressure <u>1.02</u>	
			-Sea Water Temp <u>10.5</u>	
			-Cabin Humidity <u>68%</u>	
		0200	-Vent MBT's <u>NO</u>	
			-Check hydraulic pressure ✓	
			-Cycle MBT and VBT hull valves <u>0.2% 20.2</u> ✓	
		0300	-Vent MBT's	
			-Check hydraulic pressure	
			-Cycle MBT and VBT hull valves	

*W. Kaye*

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>9 Sept 69</u>	0400	-Check bilges, penetrators and main battery fuse boxes for water ✓ -Cycle MBT and VBT hull valves ✓ -Check hull valves for proper position. -Check LOX tanks for leaks ✓ -Vent Main Ballast Tanks ✓ -Check emergency ballast hydraulic pressure ✓ -Check VBT's for pressure buildup ✓ -Record air flask readings (flasks in service). Flask #1 <u>No</u> ; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____	
04-08			
Position: <u>245° 80 miles SE of</u> <u>ATLANTIC CITY</u>			
Weather:			
0530 Underway at 20' altitude on course 220° depth = 365 meters.			
0549 C/L 130 change altitude to 100'			
0610 Descending to 20' altitude		-Check equipment not in use in Off/Standby position ✓ -Record battery readings <u>No</u> -Check F.W. valves shut	
0612 Depth 445m Temp. 6°C		-Carbon Dioxide% _____ -Oxygen % <u>19.5</u> -Cabin Temperature <u>60°</u> -Sea Water Temp. <u>7°C</u> -Cabin Pressure <u>1.02</u> -Cabin Humidity <u>66</u>	
0622 westerly current (from the north) seems to decrease as we go deeper.			
0650 Several Surgeles Strung Seen Depth 411m.			
0655 Depth 435m			
0700 Depth 455m	0500	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
0704 Depth 465m			
0706 Can see bottom sloping off to the right.	0600	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves <u>0%</u>	
0710 Increasing altitude to 100' C/L 130	0700	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
0717 C/L 220° Descending to bottom			
0 Bottom slope very steep.			
0725 Depth 500m. Altitude 15th cru-			

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0730 Ext. temp.  $5^{\circ}\text{C}$

0735 Depth 440m. Bottom quite uneven - many  
ups & downs

0740 Ascending to 100m - preparing to surface.  
Hurricane Certainty

~~Surface for two into port by Perimeter.~~

LDKj

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>9 Sept 69</u> 08-12	0800	-Replace LiOH panels <u>nd</u> -Conduct thorough boat inspection ✓ -Cycle MBT and VBT hull valves ✓ -Check hull valves for proper position ✓ -Check LOX tanks for leaks ✓ -Vent Main Ballast Tanks ✓ -Check emergency ballast hydraulic pressure ✓ -Check VBT's for pressure buildup ✓ -Air flask readings <u>none in service</u> (flasks in service)	
Position: <u>Approx 80 mi. SE of Atlantic City</u> Weather: ?		-Check equipment not in use in Off/Standby position ✓ -Check F.W. valves shut ✓ -Record battery readings <u>NO</u> -Carbon Dioxide % _____ -Oxygen % <u>19.6</u> -Sea Water Temp. <u>17°</u> -Cabin Humidity <u>75</u> -Cabin Pressure <u>1.02</u> -LOX pressure <u>61</u> -Fwd <u>almost full</u> Aft <u>almost full</u>	
0825 Decided not to surface - looks like hurricane center will pass <u>overhead</u> - surface very rough <u>clean</u> . We will descend to 1800 ft. & sit on the bottom.		Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____ -Check equipment not in use in Off/Standby position ✓ -Check F.W. valves shut ✓ -Record battery readings <u>NO</u> -Carbon Dioxide % _____ -Oxygen % <u>19.6</u> -Sea Water Temp. <u>17°</u> -Cabin Humidity <u>75</u> -Cabin Pressure <u>1.02</u> -LOX pressure <u>61</u> -Fwd <u>almost full</u> Aft <u>almost full</u>	
0830 At 100 m.		-Record F.W. & LOX tank levels <u>NO</u>	
0915 at 205 m descending with motors		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
0956 10 ft. dl bottom - very steep & rocky - will ascend and pick a shallower spot to bottom		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves <u>0.7</u>	
1030 Touched down at 460 m - facing into steep slope - too steep - <sup>some</sup> <del>no</del> contact - should have been. will ascend and move in to shallower water.	0900	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1122 Still inverter blinking out fathometer when shift to mode 2, port inverter does it. seems to be issue with R+C groups. Ground readings on BAC u Kay.	1000	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1100	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves NOTE: If motors have been idle, meggar before using. Revision 1 12 May 1969	

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	Time	Routine	Check
Date <u>9 Sept 69</u> 12-16	1200	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves	
Position: <u>Approx 8mi S.E. of Atlantic City</u>		-Check hull valves for proper position -Check LOX tanks for leaks	
Weather: <u>Hurricane Gerta passing overhead</u>		-Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup	
1200 at 355m proceeding N.W. at slow speed.		-Air flask readings <u>None in</u> (flasks in service) <u>Service</u> Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____	
1235 At 245m.		-Test emergency ballast alarm	
1300 At 238m. proceeding N.W. toward shallow water		-Check equipment not in use in Off/Standby position	
1325 At 218m climbing		-Vent Main Ballast Tanks	
1350 at 108m still climbing - will bottom soon		-Check F.W. valves shut -Record battery readings	
1402 Beginning descent		-Carbon Dioxide % _____ -Oxygen % <u>19.8</u>	
<del>1410</del> 1410 Bottomed. Smooth flat - 142 meters Ext. temp 12°C Flooding both VBT's		-Cabin Temperature <u>57</u> -Sea water temp. <u>7°C</u> -Cabin Humidity <u>69</u> -Cabin Pressure <u>1.02</u>	
<u>W. K. J.</u>	1300	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1400	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1500	-Vent MBT's <u>0.70</u> -Check hydraulic pressure -Cycle MBT and VBT hull	

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>9/Sept/69</u> 16-20	1600	-Check bilges, penetrators and main battery fuse boxes for water ✓ -Cycle MBT and VBT hull valves ✓ -Check hull valves for proper position ✓ -Check LOX tanks for leaks ✓ -Vent Main Ballast Tanks ✓ -Check emergency ballast hydraulic pressure ✓ -Check VBT's for pressure buildup ✓ -Air flask readings (flasks in service)	
Position: <u>80 Miles of ATLANTIC CITY NJ</u>		-Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % <u>0.8</u> -Oxygen % <u>20.</u> -Cabin Temperature <u>60</u> -Sea water temp. <u>12C</u> -Cabin Humidity <u>75</u> -Cabin Pressure <u>1.02</u>	
Weather:		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1600 Bottomed.		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1800 Preparing to Surface - blowing VBT's		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1825 Surfaced. Boat will be towed to Wash. D.C. by Providence		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
D. Kojima		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1700	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1800	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1900	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>11-21-69</u> 08-12	0800	-Replace LiOH panels -Conduct thorough boat inspection	
Position: <u>TURBINE TEST</u> <u>FOR CREW</u> Weather:		-Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service)	
1057 - UNDERWAY ① 9.50 Light for Santa 5.6 50000 95 LE HUN, ON LINE R 2		-Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service) Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____ -Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Sea Water Temp. _____ -Cabin Humidity <u>00</u> -Cabin Pressure _____ -LOX pressure <u>80</u> -Fwd _____ Aft _____ -Record F.W. & LOX tank levels	
	0900	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1000	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves <u>0.7</u>	
	1100	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	

NOTE: If motors have been idle, meggar before using.

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11:25 AM 10/21/69

A1

2419

A2

1579

B1

1307

C

1302

B2

1327

D

249c

Franklin Underway Log Sheet

12-16  
-00-04  
Date 11-21-69

Position: TURN BASIN TEST FOR FIRE W

Weather: CLEAR WINDS 10-15 KNE

1433 RAJIN TO DIVE - OPEN VENTS

STILL ON LIST to 1000  
Cable

1435 Onboard: Kaz, Campus

1440 Comms

1445 B. V. - Boat system

1450 Est. ...

1515 STB VBT full

SAS had leaky inter hatch, Pumped it down and stopped leak.

Measured main meters

- #1 12 megohms
- 2 1 "
- 3 7 "
- 4 5 "

Rudder 10,000 ohms.

#3 Position of limit switch grounded

STB Lc Fr 12 500W ODC

STB Lc Fr 2 250W ODC

Time	Routine	Check
0000	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Record air flask readings: Flask #1 <u>140</u> ; #2 <u>140</u> ; #3 <u>146</u> ; #4 <u>180</u> ; #5 <u>140</u> ; #6 <u>145</u> -Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % <u>21.5</u> -Cabin Temperature <u>67</u> -Cabin Pressure _____ -Sea Water Temp _____ -Cabin Humidity <u>0.5</u>	
0100	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
0200	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves <u>0.7</u>	
0300	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>11/21/69</u> 16-20	1600	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service) Flask #1 _____; #2 _____ #3 _____; #4 _____ #5 _____; #6 _____ -Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Cabin Temperature _____ -Sea water temp. _____ -Cabin Humidity _____ -Cabin Pressure _____	
Position: <u>TURKING BASIN</u> <u>Port of Palm Beach</u>			
Weather:			
1600 Lowered Sonar target for EMI checks - target about 50 yds ahead of us about 15 ft below surface. NOT VISIBLE ON CTFM			
1620 Ran meters 1+2 to see effect on CTFM - very bad.			
1625 PREPARING TO SURFACE, blow MBT			
1630 SURFACE, SECURE MBT			
1650 Tracked			
D. Kojima			
	1700	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1800	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves <u>O<sub>2</sub> %</u> _____	
	1900	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>24 Nov 69</u> 08-12	0800	-Replace LiOH panels -Conduct thorough boat inspection -Cycle MBT and VBT hull valves	
Position: <u>Port of Palm Beach</u>		-Check hull valves for proper position -Check LOX tanks for leaks	
Weather:		-Vent Main Ballast Tanks	
1127-UNDERWAY		-Check emergency ballast hydraulic pressure	
1155-UNDER TOW BY PRIVATEER		-Check VBT's for pressure buildup	
1206-OUTER STS HATCH LEAKING		-Air flask readings (flasks in service)	
1208-AFT HATCH LEAKING		Flask #1 _____; #2 _____;	
MANIFOLD SYSTEM SALT WATER SENSORS		#3 _____; #4 _____;	
5-6-9-10-11-12 ON		#5 _____; #6 _____	
1335 Rig for dive completed. Tow disconnected. Sounding 310ft.		-Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings	
1340 Opened vents - dive #45 Kuhn, Kojmir, Sereisen, Gregory, Campbell aboard.		-Carbon Dioxide % _____ -Oxygen % _____ -Sea Water Temp. _____	
1347 <del>1449</del> Diving at 40m O <sub>2</sub> bubble - about 60% water in fuel. trim Boat about 1900 lbs. heavy, hatch leak stopped		-Cabin Humidity _____ -Cabin Pressure _____ -LOX pressure _____ -Fwd _____ Aft _____	
1453 Drilled Start 20 sec. Stbd.		-Record F.W. & LOX tank levels	
1454 " " " Port	0900	-Vent MBT's	
1458 at 60m.		-Check hydraulic pressure	
1558 Drilled Start 15 sec. Stbd.		-Cycle MBT and VBT hull valves	
CTFM Jammed	1000	-Vent MBT's	
1357 at 65m Drilled 15 sec. port.		-Check hydraulic pressure -Cycle MBT and VBT hull valves O <sub>2</sub> % _____	
1403 at 75m Drilled 15 sec Stbd.	1100	-Vent MBT's	
1405 at 70m " " "		-Check hydraulic pressure -Cycle MBT and VBT hull valves	
1413 about neutrally buoyant.		NOTE: If motors have been idle, meggar before using.	
1417 flooded a little in Stbd VBT		Revision 1	
Bottomed Flooding Stbd VBT visibility poor. Depth 68m over	-11-	12 May 1969	

- 1430 Bilges, true battery flange, penetrations  
checked for leaks.
- 1447 checked salving valves - opened inside valves.  
Both dry.
- 1455 checked external lights - one was bad -  
std hi fr, low watt
- 1456 TV picture perfect.
- 1458 EXT. TEMP. 24.5°C - 75.2°F
- 1502 Bad EMI on 504 from Tency C5 & C6
- 1512 Conducting VBT drills
- 1530 SAS enter hatch doors
- 1534 Assembly BOTH VBT'S dry
- 1539 hovering at 65m
- 1600 SURFACED
- 1611 UNDER TOW
- 1730 Moved.

Paul Campbell

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>4 Dec 69</u> 08-12	0800	-Replace LiOH panels -Conduct thorough boat inspection	
Position: <u>Port of Palm Beach</u> Weather:		-Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service)	
1050 Underway		Flask #1 _____; #2 _____;	
1110 Under tow by Privateer		#3 _____; #4 _____;	
Bruce C. Sorenson		#5 _____; #6 _____ -Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Sea Water Temp. _____ -Cabin Humidity _____ -Cabin Pressure _____ -LOX pressure _____ -Fwd _____ Aft _____	
		-Record F.W. & LOX tank levels	
	0900	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1000	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves <u>0.7</u> _____	
	1100	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	

NOTE: If motors have been idle, meggar before using.

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>12-04-69</u> 12-16	1200	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup. -Air flask readings (flasks in service)	
Position: <u>0800T 3mi S<sub>95</sub>W P/B</u>			
T. W. K. E. T.			
Weather: <u>Calm &amp; Clear</u>			
1230 Disconnected tow			
1234 No S.W. Sensors 1.8 miles "in"		-Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup. -Air flask readings (flasks in service)	
1244 Diving (#44) 50 up angle Crew - Rand, Sotenza, Campbell, Kezimir, Swiss, Leg		-Test emergency ballast alarm -Check equipment not in use in Off/Standby position -Vent Main Ballast Tanks -Check F.W. valves shut -Record battery readings	
1250 Sensors 5, 9, 10, 11, 13 on		-Carbon Dioxide % _____ -Oxygen % _____	
1252 Scanner #12 in		-Cabin Temperature _____ -Sea water temp. _____	
1256 Hovering at 40 m. & Dr. Hobbing Shot		-Cabin Humidity _____ -Cabin Pressure _____	
1310 Bottomed 98m Coritty. 4 Kt. current from 210.		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1318 Partially Flooded PORT VBT.		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1330 Spotted amberjack		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1345 Checked for leaks.		-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1400 Taking bottom samples with manipulator. Spotted several amberjacks	1300	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1418 Underway - heading west cruising close to bottom speed 8 Kts	1400	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1427 Spotted scallops	1500	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1437 Speed 8 Kts, 35 Amps meters 1+2 attitude 15'			
1444 Current strong from the south			

1447

Bait won't come left - even  
with left full rudder.

Depth Control Good - AT 50 m

working up the slope. Operating Sonar  
periodically - must come to all sty

because of motor interference. later on, she stalled  
- to come around

1513

at 33 m c/c to the east.

1523

Increased to 60 amps - need it

to fight northward current when on

course 130°, altitude 15' off bottom

1555

Coming up to 100 ft altitude. Will search  
for bait bucket.

W.D. King

Franklin Underway Log Sheet

Date	Time	Routine	Check
4 Dec 69	1600	-Check bilges, penetrators and main battery fuse boxes for water	✓
16-20		-Cycle MBT and <del>VBT</del> <sup>No</sup> hull valves	✓
Position: about 2 mi east of Palm Beach inlet		-Check hull valves for proper position	✓
Weather: 15-20 kts from NNE		-Check LOX tanks for leaks	✓
Clear		-Vent Main Ballast Tanks	✓
1600 DEPTH 97 m		-Check emergency ballast hydraulic pressure	✓
1630 All SW sensors except 3, 4, 7, & 8 are on		-Check VBT's for pressure buildup	✓
1631 Depth 110 m. at 100 ft. off the bottom.		-Air flask readings (flasks in service)	
1652 #4 position motor not working. Fuse OK		Flask #1 _____; #2 _____	
1738 Approaching the bottom to check current direction & speed.		#3 _____; #4 _____	
1744 Bottomed. Depth 152 m. Privateer reports last bucket 690 1400 yds. from Franklin. Flooded port VBT. Taking bottom sample.		#5 _____; #6 <u>186</u>	✓
1753 Lost stbd mag light		-Check equipment not in use in Off/Standby position	✓
1820 Coming to 100 ft altitude with head east for last bucket.		-Check F.W. valves shut	✓
1847 Total shot drilled 2 min. 20 sec. or 2200 lbs.		-Record battery readings <u>NO</u>	✓
1112 Bottomed 172 m. An old <del>frank</del> penetrator leaking slightly in B-4	1700	-Carbon Dioxide % <u>4.9%</u>	✓
(930) Sliding along the bottom		-Oxygen % <u>20.8</u>	✓
winning in our 601F bucket		-Cabin Temperature <u>80.5°F</u>	✓
	1800	-Sea water temp. <u>28.5°C @ 9m</u>	✓
	1900	-Cabin Humidity <u>69%</u>	✓
		-Cabin Pressure <u>1.05 Hg/cm<sup>2</sup></u>	✓
		-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
		O <sub>2</sub> % _____	
		-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

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1950

Sighted but bucket 10' ft. to stud.

Crabs all over the place.

2015

MG Light working OK

WJ/Kjmi

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>4 Dec. 69</u>	2000	-Check bilges, penetrators and main battery fuse boxes for water	✓
20-24		-Cycle MBT and VBT hull valves	✓
Position: <u>about 5 mi. East of Palm Beach</u>		-Check hull valves for proper position	✓
Weather: _____		-Check LOX tanks for leaks	✓
2000 on the bottom is 171 m of water photographing but bucket.		-Vent Main Ballast Tanks	✓
2030 Spotted a dead Piccard penetrator leaking slightly in #4		-Check emergency ballast hydraulic pressure	✓
2050 Spotted another dead Piccard penetrator leak in #6		-Check VBT's for pressure buildup.	✓
2055 Shifted power adjust from # 3 P.M. to # 4 P.M. and rotated # 4 horizontal.		-Air Flask readings (flasks in service )	
2057 #3 S.W. Light intermittent		Flask #1 _____; #2 _____;	
2130 Blew a fuse for prop. system fuse. will investigate.		#3 _____; #4 _____;	
2135 taking battery ground reading.		#5 _____; #6 <u>176</u>	
2149 #2 motor @ ground B2-2 0-ground string voltage to #2 75 volts		-Check equipment not in use in Off/Standby position	✓
2017 Released buoy from Boat bucket.	2100	-Check F.W. valves shut	✓
2020 attempting to pick up a dead crab.		-Record battery readings	✓
2345 Can't balance the bridges for the Foreman probe.		-Carbon Dioxide % <u>0.4</u>	
		-Oxygen % <u>20.6</u>	
		-Cabin Temperature <u>71.0</u>	
		-Sea water temp. <u>14.0C</u>	
		-Cabin Humidity <u>65.0</u>	
		-Cabin Pressure <u>1.05</u>	
		-Conduct contaminant checks <u>NO</u>	
	2200	-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	2300	-Vent MBT's <u>O<sub>2</sub> % _____</u>	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

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Franklin Underway Log Sheet

	Time	Routine	Check
<p>Date <u>5 Dec. 69</u></p>	0000	<p>-Check bilges, penetrators and main battery fuse boxes for water</p>	
<p>00-04</p>		<p>-Cycle MBT and VBT hull valves</p>	<p>✓</p>
<p>Position: <u>About 5 miles east of Palm Beach</u></p>		<p>-Check hull valves for proper position</p>	<p>✓</p>
<p>Weather: <u>15 Kts wind from the north</u></p>		<p>-Check LOX tanks for leaks</p>	<p>✓</p>
<p>0000 On the bottom preparing to do modified speed run</p>		<p>-Vent Main Ballast Tanks</p>	<p>✓</p>
<p>0010 Shifted to mode 2</p>		<p>-Check emergency ballast hydraulic pressure</p>	<p>✓</p>
<p>0025 Conducting modified speed run at 120m heading S.E.</p>		<p>-Check VBT's for pressure buildup</p>	<p>✓</p>
<p>0026 Blowing port VBT</p>		<p>-Record air flask readings:</p>	<p>Flask #1 _____; #2 _____;</p>
<p>0045 Crew tired. Captain has a bad cold - will bottom for the night</p>		<p>-Check equipment not in use in Off/Standby position</p>	<p>✓</p>
<p>0055 Bottomed 182 meters</p>		<p>-Check F.W. valves shut</p>	<p>✓</p>
<p>0100 P. CAMPBELL ON WATCH</p>	0100	<p>-Record battery readings</p>	<p>NO</p>
<p>0130 GERT CHECK - OK</p>		<p>-Carbon Dioxide % <u>0.4%</u></p>	<p>✓</p>
<p>0200 GERT CHECK - OK</p>		<p>-Oxygen % <u>20.3</u></p>	<p>✓</p>
<p>0230 GERT CHECK - OK</p>	0200	<p>-Cabin Temperature <u>67.0</u></p>	<p>✓</p>
<p>0300 GERT CHECK - OK</p>		<p>-Cabin Pressure <u>1.05</u></p>	<p>✓</p>
<p>0380 GERT CHECK - OK</p>		<p>-Sea Water Temp <u>17.5</u></p>	<p>✓</p>
<p></p>	0300	<p>-Cabin Humidity <u>65%</u></p>	<p>✓</p>
<p></p>		<p>-Vent MBT's</p>	<p>✓</p>
<p></p>		<p>-Check hydraulic pressure</p>	<p>✓</p>
<p></p>		<p>-Cycle MBT and VBT hull valves</p>	<p>✓</p>
<p></p>		<p>-Vent MBT's</p>	<p>✓</p>
<p></p>		<p>-Check hydraulic pressure</p>	<p>✓</p>
<p></p>		<p>-Cycle MBT and VBT hull valves</p>	<p>✓</p>

Franklin Underway Log Sheet

	Time	Routine	Check
<p>Date <u>5 Dec 69</u></p>	0400	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water ✓</li> <li>-Cycle MBT and VBT hull valves ✓</li> <li>-Check hull valves for proper position ✓</li> <li>-Check LOX tanks for leaks ✓</li> <li>-Vent Main Ballast Tanks ✓</li> <li>-Check emergency ballast hydraulic pressure ✓</li> <li>-Check VBT's for pressure buildup ✓</li> <li>-Record air flask readings (flasks in service)</li> </ul>	
<p>04-08</p>			
<p>Position: ON BOTTOM AT 180 METERS ABOUT 5 MILES EAST OF RB</p>			
<p>Weather: 15 KT WINDS FROM NORTH</p> <p>0400 GERT-OK 0430 GERT-OK 0500 GERT-OK</p>			
<p>0550 - Detected oil LEAK IN MANUATORIP W/IST - ONE DROP PER MIN. CALLED PRIOATEER TO TALK TO Ed. BLAND. BALLARD TALKED TO BLAND.</p>		<p>Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 <u>171 Kg/cm<sup>2</sup></u></p>	
<p>0726 Coming up off the bottom</p>		<ul style="list-style-type: none"> <li>-Check equipment not in use in Off/Standby position ✓</li> <li>-Record battery readings</li> <li>-Check F.W. valves shut ✓</li> <li>-Carbon Dioxide% <u>6.9%</u> <i>Read readings</i></li> <li>-Oxygen % <u>20.0%</u></li> <li>-Cabin Temperature <u>62°F</u></li> <li>-Sea Water Temp. <u>13.0°C</u></li> <li>-Cabin Pressure <u>1.05 Kg/cm<sup>2</sup></u></li> <li>-Cabin Humidity _____</li> </ul>	
<p>0738 BOTTOM RUN FOR WHOI</p>			
<p>20 AMPS STBD INV ON #3</p>			
<p>L #4</p>			
<p>0741 ascending</p>			
<p>0751 Blew with VBT'S</p>			
<p>0758 surfaced</p>			
<p>0813 UNDER TOW</p>			
<p><del>1020</del> - Modified - Paul W. Humphreys</p>	0500	<ul style="list-style-type: none"> <li>-Vent MBT's ✓</li> <li>-Check hydraulic pressure ✓</li> <li>-Cycle MBT and VBT hull valves ✓</li> </ul>	
	0600	<ul style="list-style-type: none"> <li>-Vent MBT's ✓</li> <li>-Check hydraulic pressure ✓</li> <li>-Cycle MBT and VBT hull valves <u>0.2%</u> ✓</li> </ul>	
	0700	<ul style="list-style-type: none"> <li>-Vent MBT's ✓</li> <li>-Check hydraulic pressure ✓</li> <li>-Cycle MBT and VBT hull valves ✓</li> </ul>	

Log Sheet

Date 2/10/80

20-2

Position:

Weather: UNDERWAY 2200

PERSONNEL ABOARD  
 W. RAND                      W. SCOTT  
 R. GREGORY                  MEAD  
 P. CAMPBELL                McALLISTER  
 B. SORENSEN                A. KUHN  
 F. MARTIN                    MEUMANN

2210

Salt Water Sensor lts #1 & 2 ON  
 2240 MBT Vents open (Dive #47)  
 2243 Hatches Covered  
 2244 ~~#11-7-5~~ #11 & 7 M Salt Water Sen.  
 #5 M  
 2245 #11-7-5 m lts off with  
 50 down angle fwd  
 2247 #6 V ON  
 2248 on bottom at 9 meters  
 2250 Close MBT valve  
 2253 SA-5 VRY  
 2253 Current 0.6 knots per Current Meter  
 320 lbs of shot dropped  
 2328 #6 l. light off  
 2330 Shift to #6 air flask securing #1  
 2332 clear to surface - commence surfacing  
 procedure  
 2335 Open air to MBT  
 2339 Commencing ascent  
 2342 Break surface  
 2343 Hatch opened (fwd)

J.H. [Signature] 26

Time                      Routine                      Check

2000	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup. -Air Flask readings (flasks in service ) Flask #1 <u>180</u> ; #2 <u>190</u> ; #3 <u>190</u> ; #4 <u>190</u> ; #5 <u>190</u> ; #6 <u>2,000</u> -Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Cabin Temperature <u>68</u> -Sea water temp. _____ -Cabin Humidity <u>60%</u> -Cabin Pressure <u>1.02</u> -Conduct contaminant checks _____	
2100	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
2200	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
2300	-Vent MBT's O <sub>2</sub> % <u>85</u> -Check hydraulic pressure -Cycle MBT and VBT hull valves	

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00-04

Date 2-11-70

Position:

Weather:

0008 Under tow by Buwater to  
dine site.

0022 completed installation of 12  
L10H panels

0046 # 6 & 8 M - Salt H<sub>2</sub>O sensor lights  
on

0050 # 8 M - out

0134 # 7 M - on

0139 MBT Vent open Dive #48

0205 out the bottom. 190M

0207 Elec Systems Sources

0223 COMPLETED BILGE INSPECTION

BATTERY ~~BOX~~ AND FUSE INSPECTION OK

DUMMY PENETRATOR IN H-A LEAKING #9

TIGHT - D - OK

FLOODING STOP VBT

# 5 MANHOLD LIGHT ON

# 3 RESERVOIR LIGHT ON

OX-GEN 21.9  
SAS Hatch leaks

0248 TOTAL SHOT DROPPED SINCE STATIC

140 SBCS N 1400 lbs.

0251 VERT TURBID WATER

0305 # 4 TILTING MOTOR OOC

# 1 MAIN MOTOR SS

*N.M. Bird*

Time Routine Check

0000  
0223 -Check bilges, penetrators ✓  
and main battery fuse boxes  
for water

-Cycle MBT and VBT hull ✓  
valves

-Check hull valves for proper  
position

-Check LOX tanks for leaks

-Vent Main Ballast Tanks

-Check emergency ballast  
hydraulic pressure

-Check VBT's for pressure  
buildup

-Record air flask readings:

Flask #1 176 ; #2 185 ;

#3 181 ; #4 195 ;

#5 194 ; #6 100

-Check equipment not in use  
in Off/Standby position ✓

-Check F.W. valves shut

-Record battery readings

-Carbon Dioxide % 0.4

-Oxygen % 21.9

-Cabin Temperature 67

-Cabin Pressure 1.05

-Sea Water Temp 30

-Cabin Humidity 68

0100 -Vent MBT's

-Check hydraulic pressure

-Cycle MBT and VBT hull  
valves

0200 -Vent MBT's

-Check hydraulic pressure

-Cycle MBT and VBT hull  
valves 0.7 85

0300 -Vent MBT's

-Check hydraulic pressure

-Cycle MBT and VBT hull  
valves

MM # 1 MEGGAR

φ 1 - 0  
φ 2 - 0  
φ 3 - 0

Pos # 1

φ 1  
φ 2  
φ 3

MM # 2

"

φ 1 - 10  
φ 2 - 10  
φ 3 - 10

Pos # 2

φ 1  
φ 2  
φ 3

MM # 3

φ 1 - 7  
φ 2 - 7  
φ 3 - 7

Pos # 3

φ 1 - 500  
φ 2 - 500  
φ 3 - 500

MM # 4

φ 1 - 5  
φ 2 - 5  
φ 3 - 5

Pos # 4

φ 1 - 200  
φ 2 - 200  
φ 3 - 200

0340 PUMPED 3 1/2° UP & OFF BOAT #5 SENSOR (4) WENT OUT AS THE & APPROXIMATED ZERO. #6 VENT LIGHT STILL ON

N.M. Reed

Log Sheet

	Time	Routine	Check
<p>ate <u>8-11-70</u></p> <p>04-08</p> <p>Position:</p> <p>Weather: <u>12ft seas - clear</u></p> <p>0647 Commenced blowing VBT's</p> <p>0702 And purr SW Sens. 1236M</p> <p>0704 ascent to 300 meters</p> <p>0714 on Surface</p> <p>0718 Boat systems secured</p> <p>0740 #8 M S/W sensor down</p> <p>0750 #3 S/W sensor at out</p> <p>0925 Moore - Slips #1 Port of Palm Beach Fla</p> <p align="right"><i>J.M. Carter</i></p>	<p>0400</p> <p>0500</p> <p>0600</p> <p>0700</p>	<p>-Check bilges, penetrators and main battery fuse boxes for water</p> <p>-Cycle MBT and VBT hull valves</p> <p>-Check hull valves for proper position</p> <p>-Check LOX tanks for leaks</p> <p>-Vent Main Ballast Tanks</p> <p>-Check emergency ballast hydraulic pressure</p> <p>-Check VBT's for pressure buildup</p> <p>-Record air flask readings (flasks in service)</p> <p>Flask #1 <u>174</u> ; #2 <u>186</u> ;</p> <p>#3 <u>178</u> ; #4 <u>194</u> ;</p> <p>#5 <u>191</u> ; #6 <u>100</u></p> <p>-Check equipment not in use in Off/Standby position</p> <p>-Record battery readings</p> <p>-Check F.W. valves shut</p> <p>-Carbon Dioxide % <u>0.3</u></p> <p>-Oxygen % <u>21.90</u></p> <p>-Cabin Temperature <u>65</u></p> <p>-Sea Water Temp. <u>30</u></p> <p>-Cabin Pressure <u>105</u></p> <p>-Cabin Humidity <u>71</u></p> <p>-Vent MBT's</p> <p>-Check hydraulic pressure</p> <p>-Cycle MBT and VBT hull valves</p> <p>-Vent MBT's</p> <p>-Check hydraulic pressure</p> <p>-Cycle MBT and VBT hull valves <u>0.2 85</u></p> <p>-Vent MBT's</p> <p>-Check hydraulic pressure</p> <p>-Cycle MBT and VBT hull valves</p>	

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Franklin Underway Log Sheet

Underway 12 Feb. 7305

Date 08-12 Under Tow Log

Position:

Weather:

*Walker, Sorenson, Gregory*

2330 - or thereabouts Under Tow  
 2350 - closed Hatch - Report to PERIOD  
 2355 - Deployed 4 LiOH Panels -

ck O<sub>2</sub> - 1.5 HPM - Everything OK  
 #1 & #6 s/w sensors on

2400 Radio ck  
 02-13-70

0800 Radio ck  
 #1 & #6 s/w sensors still on

0815  
 0900 ck CO<sub>2</sub> .2%  
 1000 Secured O<sub>2</sub> - 22%

1100 O<sub>2</sub> @ 21.8% ↓

1200 Deployed 2 LiOH Panels  
 1300 Visitors - Neuman, Ballard, Mead  
 #1 & #6 s/w

1730 #1 & #5 #6 s/w

1830 E/PD on line

*R. Sorenson*  
 1945 all aboard *DKajini*

Time Routine Check

- 0800 -Replace LiOH panels
- Conduct thorough boat inspection
- Cycle MBT and VBT hull valves
- Check hull valves for proper position
- Check LOX tanks for leaks
- Vent Main Ballast Tanks
- Check emergency ballast hydraulic pressure
- Check VBT's for pressure buildup
- Air flask readings (flasks in service)
- Flask #1       ; #2       ;
- #3       ; #4       ;
- #5       ; #6
- Check equipment not in use in Off/Standby position
- Check F.W. valves shut
- Record battery readings
- Carbon Dioxide %
- Oxygen % 21
- Sea Water Temp.
- Cabin Humidity 60/68
- Cabin Pressure
- LOX pressure
- Fwd        Aft
- Record F.W. & LOX tank levels

- 0900 -Vent MBT's
- Check hydraulic pressure
- Cycle MBT and VBT hull valves
- 1000 -Vent MBT's
- Check hydraulic pressure
- Cycle MBT and VBT hull valves O<sub>2</sub> %
- 1100 -Vent MBT's
- Check hydraulic pressure
- Cycle MBT and VBT hull valves

NOTE: If motors have been idle, meggar before using.

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>13 Feb. 1970</u>	2000	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup. -Air Flask readings (flasks in service ) Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____	
20-24			
Position: <u>about 10 mi. SE of Fowey Rocks Light</u>			
Weather: <u>10 kts, overcast</u>			
1945 - <u>all aboard Keymer, Need, Neumann, Wigley, Gregory, Sorensen, Uchopi</u>			
2015 <u>RPD complete</u>			
2028 <u>vents open Dive #49</u>			
2030 <u>#11 vent manifold light on also #1 + 5 + 6 vent valve</u>		-Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____	
2032 <u>#11 man. light off.</u>			
2037 <u>Going down</u>			
2039 <u>#2 reservoir light on (15m)</u>			
2040 <u>#3 reservoir light on at 80m</u>		-Cabin Temperature _____ -Sea water temp. _____ -Cabin Humidity _____ -Cabin Pressure _____ -Conduct contaminant checks _____	
2041 <u>at 100m. hovering about 100kts heavy</u>			
2046 <u>at 200m. #7 manifold light on. 5, 6 + 11 vent valve lights on.</u>			
2048 <u>SAS blow leaks</u>			
<u>lost track logline low -</u>	2100	-Vent MBT's -Check hydraulic pressure -Cycle MBT and VBT hull valves	
<u>as we descend. We were</u>			
<u>had to flood some.</u>	2200	-Vent MBT's ✓ -Check hydraulic pressure ✓ -Cycle MBT and VBT hull valves ✓	
2055 <u>at 370m descending</u>			
2058 <u>#8 manifold light on</u>	2300	-Vent MBT's <u>O<sub>2</sub> % 20.9</u> -Check hydraulic pressure -Cycle MBT and VBT hull valves	
<u>bottom in sight</u>			
<u>Drifting shot</u>			
2110 <u>Lots of silt blown up from motors - moving out to a clean spot</u>			
DK <u>2024</u> <u>2124</u>			
<u>Bottomed 365 m.</u>			
<u>6870 thru water fund.</u>			
<u>Drilled 830 lbs, Spotted 1 whorled bulb</u>			
<u>26 over</u>			

- 2126 Checking boat for leaks
- 2129 1 old Picavit multi leaking slowly aft  
in H-5, mended with tape
- 2131 port LO fr 2 250 watt voc
- 2140 Reservoir Lights 1, 2, 3  
manifold 12, 6  
Values 5, 6, 11
- 2142 Current from 140, .35 fs Ext. temp 12° C
- 2150 Large shark been manipulated  
Bulwer's murrelets - like been W.P. Beach.  
visibility outstanding  
PTA 165° 3 mi.
- 2207 heggered main motors #1 - 20 meg #3 3 meg  
#2 - 20 meg #4 5 meg
- 2230 Lost #3 tilting motor.
- 2235 Error! Shallow depth to see if we can tilt #3 motor
- 2250 Reversed phase on #3 motor + rotated it horizontal  
We are now descending to cruise altitude
- 2306 at 355m drifting shot
- 2310 PTA 155° 3 mi from us
- 2311 Coming to 120°
- 2330 Close to neutral buoyancy. Total shot drilled 1780 lbs  
Altitude 15 ft. Speed 60 amps speed thru the  
water about 1.7 kt. - over the ground est. .75 kt.  
Our current meter reads about half of that in  
WHOF water
- 2350 WHOF water 1.2 Kts  
our meter .4 Kts
- 2355 Total shot drilled 1870 lbs.

L. J. King

Franklin Underway Log Sheet

		Time	Routine	Check
Date <u>14 Feb. 1970</u>		0000	-Check bilges, penetrators and main battery fuse boxes for water ✓	
00-04			-Cycle MBT and VBT hull valves ✓	
Position: <u>Roughly 7 mi. S.E. of Farway Rocks Light</u>			-Check hull valves for proper position	
Weather: <u>10 Kts overcast</u>			-Check LOX tanks for leaks	
0000	Slight pressure build up in port VBT 14 Ks/cm <sup>2</sup>		-Vent Main Ballast Tanks ✓	
0002	Depth 368 m. uncorrected		-Check emergency ballast hydraulic pressure ✓	
0007	Increased to 70 Amps port inverter on 102		-Check VBT's for pressure buildup ✓	
0009	CS Tapes O.O.C.		-Record air flask readings:	
0013	Depth 372 m. uncorrected		Flask #1 <u>173</u> ; #2 _____;	
0016	NTA 155 2 mi. from US		#3 _____; #4 _____;	
0053	385 meters depth		#5 _____; #6 _____	
0100	PT. A. 145° 3.5 mi. from US posit: 25-32.5 N 79-57.0 W	0100	-Check equipment not in use in Off/Standby position ✓	
0123	At 400 meters (uncorr.)		-Check F.W. valves shut ✓	
0130	25-31.3 N 79-55.7 W		-Record battery readings <u>NO</u>	
0200	posit 25-30.7 N 79-55.0 W		-Carbon Dioxide % <u>1.0</u>	
0234	Changing course to 000°. We are south of desired area. Bottomed		-Oxygen % <u>20.8</u>	
	25-32.7 N } 0230 79-56.0 W		-Cabin Temperature <u>64°F</u>	
			-Cabin Pressure <u>1.03</u>	
			-Sea Water Temp <u>12.50</u>	
			-Cabin Humidity <u>56%</u>	
		0200	-Vent MBT's <u>NO</u>	
			-Check hydraulic pressure ✓	
			-Cycle MBT and VBT hull valves <u>NO</u>	
		0300	0.7% <u>20.5</u>	
			-Vent MBT's ✓	
			-Check hydraulic pressure <u>136</u> ✓	
			-Cycle MBT and VBT hull valves	

D. J. Kizner

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>14 FEB 1970</u>	0400	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water ✓</li> <li>-Cycle MBT and VBT hull valves ✓</li> <li>-Check hull valves for proper position ✓</li> <li>-Check LOX tanks for leaks ✓</li> <li>-Vent Main Ballast Tanks <u>NO</u></li> <li>-Check emergency ballast hydraulic pressure ✓</li> <li>-Check VBT's for pressure buildup ✓</li> <li>-Record air flask readings (flasks in service)</li> </ul>	
04-08			
Position: <u>ON BOTTOM - 007</u>			
Weather: <u>Approx. 25-32.7N, 79-56.0W</u>			
0430 Taking a gravity reading Water very clear on bottom - Not much plankton			
0530 CHECKS O <sub>2</sub> COMP. O <sub>2</sub> - 19.5% INCREASED TO 5 LITERS/KIN & M. Quid		Flask #1 <u>166</u> ; #2 _____ ; #3 _____ ; #4 _____ ; #5 _____ ; #6 _____ ;	
0600 - C-ERT CK			
0630 - C-ERT CK			
0700 CK COMP. O <sub>2</sub> - 19.8% Rising		<ul style="list-style-type: none"> <li>-Check equipment not in use in Off/Standby position ✓</li> <li>-Record battery readings <u>NO</u></li> <li>-Check F.W. valves shut ✓</li> <li>-Carbon Dioxide% <u>0.87%</u></li> <li>-Oxygen % <u>19.7%</u></li> <li>-Cabin Temperature <u>58</u></li> <li>-Sea Water Temp. <u>11.5 °C</u></li> <li>-Cabin Pressure <u>1.025</u></li> <li>-Cabin Humidity <u>66</u></li> </ul>	
0700 C-ERT CK			
0730 C-ERT CK			
<i>BC. Jensen</i>			
	0500	<ul style="list-style-type: none"> <li>-Vent MBT's ✓</li> <li>-Check hydraulic pressure ✓</li> <li>-Cycle MBT and VBT hull valves ✓</li> </ul>	
	0600	<ul style="list-style-type: none"> <li>-Vent MBT's ✓</li> <li>-Check hydraulic pressure <u>68 k/cm</u> ✓</li> <li>-Cycle MBT and VBT hull valves O<sub>2</sub> % <u>19.7</u></li> </ul>	
	0700	<ul style="list-style-type: none"> <li>-Vent MBT's ✓</li> <li>-Check hydraulic pressure ✓</li> <li>-Cycle MBT and VBT hull valves O<sub>2</sub> % <u>19.8</u></li> </ul>	

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Franklin Underway Log Sheet

Date <u>02-14-70</u>	Time	Routine	Check
08-12	0800	-Replace LiOH panels -Conduct thorough boat inspection	
Position: <u>SAME AS 0400</u>		-Cycle MBT and VBT hull valves	
Weather: <u>Calm, partly cloudy</u>		-Check hull valves for proper position	
0806 MOTOR 3 <u>MISC SAME AS BA</u>		-Check LOX tanks for leaks -Vent Main Ballast Tanks	5.1 pm
0821 Broke out fresh silica gel		-Check emergency ballast hydraulic pressure	20%
0832 Underway, course north		-Check VBT's for pressure buildup	P40
0832 15 ft. alt, Drilling shut		-Air flask readings (flasks in service)	
0845 Total shut drilled 2100 lbs.		Flask #1 <u>162</u> ; #2 _____;	
0845 Slightly light wind.		#3 <u>156</u> ; #4 _____;	
0850 Changing altitude to 150 ft.		#5 _____; #6 _____	
0855 4 motors 120 A		-Check equipment not in use in Off/Standby position	✓
0857 WHOI current meter - 2.5 Kts		-Check F.W. valves shut	✓
0857 cur " " - 0.6 Kts		-Record battery readings	N6
0920 all manifold lights "off"		-Carbon Dioxide % <u>0.8</u>	
0920 Reading taken with speed		-Oxygen % <u>20</u>	
0924 C/S to 80 A on fuel		-Sea Water Temp. <u>12 C</u>	
motors. Volt. part - 300		-Cabin Humidity <u>77%</u>	54°
WHOI meter - 7.4 Kts		-Cabin Pressure <u>1.025</u>	
0930 25-34.2 <del>N</del> N	0900	-LOX pressure <u>130</u>	
79-55.7W		-Fwd _____ Aft <u>130</u>	
0931 C/S 2 Kts 4 motors		-Record F.W. & LOX tank levels	3/4 3/4
25-35 10 AM	1000	-Vent MBT's	N
79-55.8		-Check hydraulic pressure	N
2-4 mi R.	1100	-Cycle MBT and VBT hull valves	N
		-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

NOTE: If motors have been idle, meggar before using.

- 1030 Shifted mode 1 Positi. 25-36.6 N  
79-55.5 W
- 1040 Proceeding toward bottom
- 1100 Slowed to 50 A Humidity down to 64%  
(about 1Kt.)
- 1104 C/C 090 Visibility outstanding
- 1115 at the ridge Swordfish & sharks in sight  
Some targets 418 notes
- 1130 Speed 30 A 20 ft. alt. following contour
- 1142 C/C 270 will traverse ridge heading west.  
Notes: at one pt. we spotted bottom at 20 ft. alt.
- 1149 Depth 405m 11°C
- 1154 Sliding along bottom  
B+C to start inu down to 318 Volls

19/8

Franklin Underway Log Sheet

		Time	Routine	Check
Date <u>14 Feb.</u>		1200	-Check bilges, penetrators and main battery fuse boxes for water	Partial
12-16			-Cycle MBT and VBT hull valves	NO
Position: <u>25-38.5 N</u>			-Check hull valves for proper position	
<u>79-55.5 W</u>			-Check LOX tanks for leaks	NO
Weather:			-Check emergency ballast hydraulic pressure	
1200	Cruising on bottom heading <u>060°</u> (Coming to 060 low). Speed <u>25 A 316 V</u> <u>.6 Kts.</u>		-Check VBT's for pressure buildup.	
			-Air flask readings (flasks in service)	
			Flask #1 <u>126</u> ; #2 _____;	
			#3 _____; #4 _____;	
			#5 _____; #6 _____	
1235	S.W. Sensors. Reservoir - 1, 2, 3 Vent V <sub>1</sub> - 5, 6, 11 manif. - 12		-Test emergency ballast alarm	NO
1325	#1 Pinger not putting out.		-Check equipment not in use in Off/Standby position	NO
1340	Bottomed for sample up again quick - too rough		-Vent Main Ballast Tanks	NO
1412	Bottomed for sample - hard, rough bottom 0.05 Kts from bottom (current) 445 meters depth No contact with Privates		-Check F.W. valves shut	NO
	Summer 200C		-Record battery readings	NO
			-Carbon Dioxide % _____	
			-Oxygen % <u>20.8</u>	
			-Cabin Temperature <u>66° F</u>	
			-Sea water temp. <u>11.5° C</u>	
			-Cabin Humidity <u>56</u>	
			-Cabin Pressure <u>1025</u>	
1435	Ascending	1300	-Vent MBT's	
1445	no manifold sensors on		-Check hydraulic pressure	
	Sensors OK		-Cycle MBT and VBT hull valves	
1500	Surfaced - no contact with Privates	1400	-Vent MBT's	
	Contact with Privates		-Check hydraulic pressure	
	Under tow to F. an. 6000		-Cycle MBT and VBT hull valves	<u>O<sub>2</sub> 20 210</u>
2145	Moved Port Everglades	1500	-Vent MBT's	
			-Check hydraulic pressure	
			-Cycle MBT and VBT hull	

W.H.G.

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Franklin Underway Log Sheet

	Time	Routine	Check
<p>Date <u>18 Feb 70</u></p> <p>08-12</p>	0800	<ul style="list-style-type: none"> <li>-Replace LiOH panels</li> <li>-Conduct thorough boat inspection</li> </ul>	
<p>Position:</p>		<ul style="list-style-type: none"> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> </ul>	
<p>Weather: <u>Clear - Wind 8 kt NW</u></p>		<ul style="list-style-type: none"> <li>-Vent Main Ballast Tanks</li> </ul>	
<p><u>Underway 01037 - From Ft. Lauderdale</u></p>	REP	<ul style="list-style-type: none"> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> </ul>	
<p>1300 BF Cleared To Dive</p>		<p>Flask #1 <u>175</u> ; #2 <u>193 kgm</u></p>	
<p>1325 BF UNDER SURFACE DIVE #50</p>		<p>#3 <u>190</u> ; #4 <u>203</u> ;</p>	
<p>1350 BF ON THE BOTTOM AT 244 METERS</p>		<p>#5 <u>195</u> ; #6 <u>196</u></p>	
<p>FLOODED STBD VBT</p>		<ul style="list-style-type: none"> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> </ul>	
<p>130 SEC SHOT DRUM PREP</p>		<ul style="list-style-type: none"> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> </ul>	
<p>A4 TILTING OUT AGAIN - JUMPAPOD TO</p>		<ul style="list-style-type: none"> <li>-Sea Water Temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>	
<p>HORIZONTAL #3 ROTATED NOSE UP ONLY</p>		<ul style="list-style-type: none"> <li>-LOX pressure _____</li> <li>-Fwd _____ Aft _____</li> </ul>	
<p>JUMPAPOD TO HORIZONTAL</p>		<ul style="list-style-type: none"> <li>-Record F.W. &amp; LOX tank levels</li> </ul>	
<p>1450 Port MIND GAS DEEPAD DIVE 65221</p>		0900	
<p>COLLING</p>		<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
<p>1507 BF OFF BOTTOM HEADING ON COURSE</p>		1000	
<p>140°</p>		<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves <u>O<sub>2</sub> %</u> _____</li> </ul>	
<p>1516 BF HEADING 170°</p>		1100	
<p>1530 BF HEADING 190° DEPTH 248 METERS</p>		<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
<p>1530 GERT Rude CHECK 5X5</p>		<p>NOTE: If motors have been idle, meggar before using.</p>	
<p>1545 STB Fwd SKI INOPERATIVE</p>		<p>Revision 1</p>	

Paul J. Campbell

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>19 FEB. 1970</u>	1600	-Check bilges, penetrators and main battery fuse boxes for water	
16-20		-Cycle MBT and VBT hull valves	
Position: <u>ON BOTTOM 248 METERS</u>		-Check hull valves for proper position	
Weather:		-Check LOX tanks for leaks	
1600 GERTRUDE CHECK 5X5		-Vent Main Ballast Tanks	
1630 BF ON COURSE 140° - BF POSITION 26° 21' N - 79° 57' W - BF ON BOTTOM FOR CTFM SWEEP.		-Check emergency ballast hydraulic pressure	
1645 BF CURRENT DRAW 50A WOH CURRENT METER 1.4 KTS.		-Check VBT's for pressure buildup	
1700 BF ON COURSE 140° DEPTH 261 METERS ALT. 9 FT.		-Air flask readings (flasks in service)	
GERTRUDE CHECK 5X5		Flask #1 <u>168 Kg</u> ; #2 <u>188 Kg</u>	
BF CURRENT DRAW 50A WOH CURRENT METER 1.7 KTS.		#3 <u>179 Kg</u> ; #4 <u>200 Kg</u>	
1704 BF ON COURSE 180°		#5 <u>193 Kg</u> ; #6 <u>193 Kg</u>	
1705 BF ON BOTTOM AT 265 METERS FOR CTFM SWEEP		-Check equipment not in use in Off/Standby position	
1720 BF POSITION 26° 11' N 79° 57' W		-Check F.W. valves shut	
1725 BF OFF BOTTOM COURSE 140°		-Record battery readings	
DEPTH 265 METERS		-Carbon Dioxide % _____	
1732 BF COURSE 180°		-Oxygen % <u>21.5</u>	
1733 BF COURSE 270°		-Cabin Temperature <u>64.0° F</u>	
1742 BF COURSE 140° ALT 12' DEPTH 265 METERS		-Sea water temp. _____	
1755 BF STOP FOR CTFM SWEEP		-Cabin Humidity <u>55%</u>	
1800 GERTRUDE CHECK 5X5		-Cabin Pressure <u>1.1 Kg/cm<sup>2</sup></u>	
1802 Blew STB VBT	1700	-Vent MBT's	
1810 BF COURSE 140° DEPTH 270 METERS		-Check hydraulic pressure	
1828 BF COURSE 180° DEPTH 278 METERS		-Cycle MBT and VBT hull valves	
1830 BF COURSE 140 DEPTH 278 MCE.	1800	-Vent MBT's	
GERTRUDE CHECK 5X5		-Check hydraulic pressure	
1848 BF POSITION 26° 10' N - 79° 57' W		-Cycle MBT and VBT hull valves	
1850 BF COURSE 100°	1900	-Vent MBT's	
1900 GERTRUDE CHECK 5X5 - BF COURSE 100°		-Check hydraulic pressure	
DEPTH 278 MCE		-Cycle MBT and VBT hull valves	

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- 1908 - WOH I CURRENT Meter ~~no~~ KTS.
- 1915 - BF ON BOTTOM DEPTH 288 MCE
- 1927 - BF OFF BOTTOM DEPTH 288 MCE
- 1930 - BF ON BOTTOM DEPTH 288 MCE - GERTRUDE 5X5
- 1934 - BF OFF BOTTOM HEADING 270°
- 1940 - FATHOMETER FAILED TO REGISTER DEPTH.
- 1945 - FATHOMETER BACK IN OPERATION.
- 1950 - BF COURSE 100° - DEPTH 290 MCE - EXT TEMP 11°C

Paul G. Campbell

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>19 Feb. 1970</u>	2000	-Check bilges, penetrators and main battery fuse boxes for water	
20-24		-Cycle MBT and VBT hull valves	
Position: <u>26°10.5'N 79°57.0'W</u>		-Check hull valves for proper position	
Weather:		-Check LOX tanks for leaks	
2000 - GerTRude Check 5X5		-Vent Main Ballast Tanks	
2015 - BF AT 260 MCE - Heading 100°		-Check emergency ballast hydraulic pressure	
2030 - GerTRude Check 5X5		-Check VBT's for pressure buildup.	
2045 - BF Position <u>26°11'N 79°55'W</u>		-Air Flask readings (flasks in service)	
2048 - BF H1 290 MCE Heading 100°		Flask #1 <u>170 kg</u> ; #2 <u>16A kg</u>	
2100 - GerTRude Check 5X5 - BF Heading 100°		#3 <u>170 kg</u> ; #4 <u>200 kg</u>	
2115 - EXT. TEMP. <u>11°C</u>		#5 <u>152 kg</u> ; #6 <u>182 kg</u>	
2118 - BF ALT. 19 FT. DEPTH 295 MCE		-Check equipment not in use in Off/Standby position	
2124 - BF ON BOTTOM DEPTH 300 MCE		-Check F.W. valves shut	
2130 - GerTRude Check 5X5		-Record battery readings	
2158 - BF Position <u>26°12'N 79°53'W</u>		-Carbon Dioxide % <u>6.9%</u>	
2205 - BF OFF BOTTOM HEADING 130° DEPTH 300 MCE		-Oxygen % <u>21.4</u>	
2230 - BF Heading 130° DEPTH 290 MCE		-Cabin Temperature <u>62°</u>	
2236 - GerTRude Check 5X5		-Sea water temp. <u>11°C</u>	
2240 - BF STOPPED MOTORS FOR CTFM SWEEP		-Cabin Humidity <u>57%</u>	
2245 - ASK PRI/VETER FOR 2300 POSITION		-Cabin Pressure <u>1.1 kg/cm²</u>	
2250 - BF AT 310 MCE		-Conduct contaminant checks	
<del>2300 - VENT STB (MISTAKE)</del>			
<del>2300 - Flooded STB, VBT.</del>			
2308 - BF ON BOTTOM - DEPTH 310 MCE	2108	-Vent MBT's	
2310 - BF Position <u>26°10.5'N 79°52.0'W</u>		-Check hydraulic pressure	
2312 - STB VBT FULL		-Cycle MBT and VBT hull valves	
2331 - STARTED Flooding PORT VBT.	2208	-Vent MBT's	
2331 - BF ON BOTTOM DEPTH 310 MCE		-Check hydraulic pressure	
2335 - BF TRYING TO MANOEUVRE FOR ROCK		-Cycle MBT and VBT hull valves	
2342 - BF ON BOTTOM FOR NIGHT.	2308	-Vent MBT's O <sub>2</sub> % <u>21.5%</u>	

BC. Sorensen  
Paul H. Campbell

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>02-20-70</u>	0000	-Check bilges, penetrators and main battery fuse boxes for water <u>NOT AFT.</u>	
00-04		-Cycle MBT and VBT hull valves	
Position: <u>26° 10.6' N</u>		-Check hull valves for proper position	
<u>79° 52.0' W</u>		-Check LOX tanks for leaks	
Weather: <u>365 Meters</u>	148	-Vent Main Ballast Tanks	
0000 GERT OK OK	OK	-Check emergency ballast hydraulic pressure	
0020 Completed ALL CKS <u>CO<sub>2</sub> chimney</u>		-Check VBT's for pressure buildup	
0030 GERT CK OK		-Record air flask readings:	
0040 GERT CK OK		Flask #1 <u>120</u> ; #2 <u>160</u> ;	
0110 Completed ALL CKS		#3 <u>162</u> ; #4 <u>200</u> ;	
0130 GERT CK OK		#5 <u>112</u> ; #6 <u>197</u>	
0200 GERT CK OK	0010	-Check equipment not in use in Off/Standby position	
0300 GERT OK OK		-Check F.W. valves shut	
0330 GERT CK OK		-Record battery readings	
		-Carbon Dioxide % <u>.7%</u>	
		-Oxygen % <u>21.6</u>	
		-Cabin Temperature <u>63°</u>	
		-Cabin Pressure <u>1604</u>	
		-Sea Water Temp <u>11°C</u>	
		-Cabin Humidity <u>62.5%</u>	
	0100	-Vent MBT's	
	45	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	0200	-Vent MBT's ✓	
	30	-Check hydraulic pressure/30	
		-Cycle MBT and VBT hull valves <u>0.7%</u>	
	0300	-Vent MBT's ✓	
		-Check hydraulic pressure/30	
		-Cycle MBT and VBT hull valves	

Paul J. Campbell



Franklin Underway Log Sheet

	Time	Routine	Check
<p>Date <u>2/20/70</u></p>	0400		
<p>04-08</p>			
<p>Position: <u>26° 10' 5" W</u> <u>79° 52.0' W</u> ON BOTTOM</p>			
<p>Weather: <u>315 METERS</u></p>			
<p>0400 - GERTRUDE CHECK 5X5</p>		<p>-Check bilges, penetrators and main battery fuse boxes for water</p>	
<p>0430 - GERTRUDE CHECK 5X5</p>		<p>-Cycle MBT and VBT hull valves</p>	
<p>0500 - GERTRUDE CHECK 5X5</p>		<p>-Check hull valves for proper position</p>	
<p>0530 - GERTRUDE CHECK 5X5</p>		<p>-Check LOX tanks for leaks</p>	
<p>0600 - GERTRUDE CHECK 5X5 - SURFACE WINDS</p>		<p>-Vent Main Ballast Tanks</p>	
<p><u>30-35 KTS FROM N-NW - 4-5' SEAS</u></p>		<p>-Check emergency ballast hydraulic pressure</p>	
<p>0630 - GERTRUDE CHECK 5X5</p>		<p>-Check VBT's for pressure buildup</p>	
<p>0635 - STARTED BLOWING STB VBT</p>		<p>-Record air flask readings (flasks in service)</p>	
<p>0640 - STB VBT EMPTY</p>		<p>Flask #1 <u>165</u> ; #2 <u>155</u> ;</p>	
<p>0642 - STARTED BLOWING PORT VBT</p>		<p>#3 <u>152</u> ; #4 <u>195</u> ;</p>	
<p>0645 - BF OFF THE BOTTOM COURSE 100°</p>		<p>#5 <u>189</u> ; #6 <u>190</u></p>	
<p>DEPTH 300 MCE</p>		<p>-Check equipment not in use in Off/Standby position</p>	
<p>52 - BECN BOTTOM AT 315 MCE</p>		<p>-Record battery readings</p>	
<p>0700 CONT OK</p>		<p>-Check F.W. valves shut</p>	
<p>0702 - PORT VBT EMPTY</p>		<p>-Carbon Dioxide% <u>8%</u></p>	
<p>0730 - GERTRUDE CHECK 5X5 - HEADING 085°</p>		<p>-Oxygen % <u>21.3%</u></p>	
<p>DEPTH 305 MCE.</p>		<p>-Cabin Temperature <u>58</u></p>	
<p>0737 - DROPPED 200 PD SHOT STB SIDE</p>		<p>-Sea Water Temp. <u>11C</u></p>	
<p>0755 - BF HEADING 140° DEPTH 302 MCE</p>		<p>-Cabin Pressure <u>1.02</u></p>	
<p>A.H.T. 30' FT.</p>		<p>-Cabin Humidity <u>71</u></p>	
<p><i>Paul Campbell</i></p>			
	0500		
		<p>-Vent MBT's</p>	
		<p>-Check hydraulic pressure</p>	
		<p>-Cycle MBT and VBT hull valves</p>	
	0600		
		<p>-Vent MBT's</p>	
		<p>-Check hydraulic pressure</p>	
		<p>-Cycle MBT and VBT hull valves <u>0.2 21.5%</u></p>	
	0700		
		<p>-Vent MBT's</p>	
		<p>-Check hydraulic pressure</p>	
		<p>-Cycle MBT and VBT hull valves</p>	

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Franklin Underway Log Sheet

Date 20 FEB. 1970

08-12

Position:

Weather:

0800 - Adjusted LOX to 3 LIT. PER MIN.

0805 - BF POSITION 26° 10.5'N 79° 50.5'W  
DEPTH 310 MCE ALT. 70 FT.

0828 - BF HEADING 070° DEPTH 340 MCE  
ALT. 10 FT

0829 - BF ON BOTTOM DEPTH 340 MCE

0835 - Gertrude Check - 5X5

0838 - STOPPED MOTORS FOR CTFMSweep

0845 - BF COURSE 090° DEPTH 300 MCE

0900 - Gertrude Check - 5X5 - BF HEADING  
080° DEPTH 335 MCE ALT. 130 FT.

0915 - STOPPED ALL MOTORS FOR CTFMSweep

0923 - BF Descending TO 400 MCE

0926 - BF AT 400 MCE ALT. 18 FT.

0938 - BF Going UP TO 300 FT. ALT.

0935 - PUT #6 AIR FLASK ON THE LINE

1005 - BF ON THE SURFACE

1645 - DROPEd TOW LINE

1645 - DOCKSIDE

1646 - SW SENSORS ON 1, 2, 5, 8, 10

*Paul Campbell*

Time Routine Check

- 0800 - Replace LiOH panels
- Conduct thorough boat inspection
- ✓ - Cycle MBT and VBT hull valves
- ✓ - Check hull valves for proper position
- ✓ - Check LOX tanks for leaks
- ✓ - Vent Main Ballast Tanks
- ✓ - Check emergency ballast hydraulic pressure
- ✓ - Check VBT's for pressure buildup
- Air flask readings (flasks in service)
- Flask #1 165 Kg ; #2 115 Kg ;
- #3 146 Kg ; #4 198 Kg ;
- #5 190 Kg ; #6 190 Kg
- Check equipment not in use in Off/Standby position
- Check F.W. valves shut
- Record battery readings
- Carbon Dioxide % 18.70
- ✓ - Oxygen % 26.9%
- ✓ - Sea Water Temp. 10°C.
- ✓ - Cabin Humidity 68.5%
- ✓ - Cabin Pressure 1.1 Mgm
- ✓ - LOX pressure \_\_\_\_\_
- Fwd \_\_\_\_\_ Aft 160
- Record F.W. & LOX tank levels

- 0900 - Vent MBT's
- ✓ - Check hydraulic pressure
- ✓ - Cycle MBT and VBT hull valves

- 1000 - Vent MBT's
- Check hydraulic pressure
- Cycle MBT and VBT hull valves 0.7

- 1100 - Vent MBT's
- Check hydraulic pressure
- Cycle MBT and VBT hull valves

NOTE: If motors have been idle, meggar before using.

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>2/25/70</u> 08-12	0800	-Replace LiOH panels -Conduct thorough boat inspection	
Position: <u>PORT OF PALM BEACH</u>		-Cycle MBT and VBT hull valves	
Weather: <u>CLEAR - WIND 10-14 KTS @ SW</u>		-Check hull valves for proper position	
1521 - UNDERWAY FROM W.P.B. F.A.B. 1534 - UNDER TOW		-Check LOX tanks for leaks -Vent Main Ballast Tanks	
		-Check emergency ballast hydraulic pressure	
		-Check VBT's for pressure buildup	
		-Air flask readings (flasks in service)	
		Flask #1 _____; #2 _____;	
		#3 _____; #4 _____;	
		#5 _____; #6 _____	
		-Check equipment not in use in Off/Standby position	
		-Check F.W. valves shut	
		-Record battery readings	
		-Carbon Dioxide % _____	
		-Oxygen % _____	
		-Sea Water Temp. _____	
		-Cabin Humidity _____	
		-Cabin Pressure _____	
		-LOX pressure _____	
		-Fwd _____ Aft _____	
		-Record F.W. & LOX tank levels	
	0900	-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1000	-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves <u>0.7</u> _____	
	1100	-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

*Paul J. Campbell*

NOTE: If motors have been idle, meggar before using.

Revision 1

12 May 1969

Franklin Underway Log Sheet

Date 2/27/78

08-12

Position: 28° 47' N, 80° 07' W

Weather: CLR - 552 - Wind NW 10 KTS

Time Routine Check

0800 - Replace LiOH panels  
 - Conduct thorough boat inspection  
 - Cycle MBT and VBT hull valves  
 - Check hull valves for proper position  
 - Check LOX tanks for leaks  
 - Vent Main Ballast Tanks  
 - Check emergency ballast hydraulic pressure  
 - Check VBT's for pressure buildup  
 - Air flask readings (flasks in service)  
 Flask #1 176 kpsi #2 194;  
 #3 131; #4 205;  
 #5 200; #6 194

- Check equipment not in use in Off/Standby position  
 - Check F.W. valves shut  
 - Record battery readings  
 - Carbon Dioxide % \_\_\_\_\_  
 - Oxygen % \_\_\_\_\_  
 - Sea Water Temp. \_\_\_\_\_  
 - Cabin Humidity \_\_\_\_\_  
 - Cabin Pressure \_\_\_\_\_  
 - LOX pressure \_\_\_\_\_  
 - Fwd \_\_\_\_\_ Aft \_\_\_\_\_  
 - Record F.W. & LOX tank levels

0900 - Vent MBT's  
 - Check hydraulic pressure  
 - Cycle MBT and VBT hull valves

1000 - Vent MBT's  
 - Check hydraulic pressure  
 - Cycle MBT and VBT hull valves 0.7 21.99

1100 - Vent MBT's  
 - Check hydraulic pressure  
 - Cycle MBT and VBT hull valves

NOTE: If motors have been idle, meggar before using.

Revision 1

12 May 1969

0745 - WENT ABOARD J.F.  
 CREW: W. RIND, R. GREGORY, B. SORENSON, P. CAMPBELL  
 GUESTS: R. WIGLEY, R. BALLARD, P. SUNN, B. CUMMINS

0832 RFD. Ex Radio ON - Lost  
 Posit MTR IND. - CHECKING

0839 - CHECKED TO DIVE - DIVE #51

0840 - MBT VALVES OPEN

0850 - COVER ON PORT FWD WIRE RUN HOSE

0853 - DROPPED SHOT PORT & STB. 20 SEC.

0855 - DROPPED SHOT PORT & STB. 5 SEC.

0856 - DROPPED SHOT PORT & STB. 5 SEC.

0857 - DROPPED SHOT PORT & STB. 5 SEC.

0858 - DROPPED SHOT PORT & STB. 5 SEC.

0859 - DROPPED SHOT PORT & STB. 5 SEC.

0900 - DROPPED SHOT PORT & STB. 5 SEC.

0901 - DROPPED SHOT PORT & STB. 5 SEC.

0902 - DROPPED SHOT PORT & STB. 5 SEC.

0903 - DROPPED SHOT PORT & STB. 5 SEC.

0904 - DROPPED SHOT PORT & STB. 5 SEC.

0905 - DROPPED SHOT PORT & STB. 5 SEC.

0906 - DROPPED SHOT PORT & STB. 5 SEC.

0907 - DROPPED SHOT PORT & STB. 5 SEC.

0909 - DROPPED SHOT PORT & STB. 5 SEC.

0911 - DROPPED SHOT PORT & STB. 5 SEC.

0912 - DROPPED SHOT PORT & STB. 5 SEC.

0913 - DROPPED SHOT PORT & STB. 5 SEC.

0916 - ALT. 23 FT

0918 - Heading 070°

Paul A. Campbell

(over)

- 0918 - DEPTH 70 METERS - HEADING 180°
- 0921 - DROPPED SHOT PORT & STB 5-SEC.
- 0927 - DEPTH 71 METERS ALT 9 FT.
- 0928 - BF ON BOTTOM DEPTH 72 METERS
- 0929 - FLOODING STR. VRT.
- 0930 - STARTED SPERRY GYRO.
- 0934 - EXTERNAL WATER TEMP 18.5°C
- 0934 - SECURED FLOODING STR. VRT.
- 0950 - SPERRY GYRO IN RUN POSITION
- 1032 - BF MOVING ALONG BOTTOM - HEADING 080° - DEPTH 72.5 METERS.
- 1035 - BF HEADING 270°
- 1045 - BF MOVING ALONG BOTTOM - HEADING 260° - DEPTH 71 METERS
- 1055 - STOPPED MOTORS FOR CTFM SWEEP - NEG. TARGET
- 1101 - STOPPED MOTORS FOR CTFM SWEEP - NEG. TARGET
- 1102 - BF OFF BOTTOM ALT 100 FT - HEADING WEST
- 1115 - BF - ALT. 90 FT - HEADING 250°
- 1142 - CO<sub>2</sub> 0.2%

Paul J. Campbell

Franklin Underway Log Sheet

Time Routine Check

Date 02-27-20

12-16

Position: 28°-17'2"N, 80°-07'W

Heading West @ 191° ALT

Weather: Same

1200

-Check bilges, penetrators and main battery fuse boxes for water

-Cycle MBT and VBT hull valves

-Check hull valves for proper position

-Check LOX tanks for leaks

1242

-Check emergency ballast hydraulic pressure

-Check VBT's for pressure buildup.

-Air flask readings (flasks in service)

Flask #1 12.6; #2 19.4

#3 14.5; #4 20.1

#5 20.4; #6 20.0

-Test emergency ballast alarm

-Check equipment not in use in Off/Standby position

-Vent Main Ballast Tanks

-Check F.W. valves shut

-Record battery readings

-Carbon Dioxide % 0.2

-Oxygen % 22.1 → 24.1 ppm

-Cabin Temperature 80

-Sea water temp. 20°C

-Cabin Humidity 62

-Cabin Pressure 1.05

1300

-Vent MBT's

-Check hydraulic pressure

-Cycle MBT and VBT hull valves

1400

-Vent MBT's

-Check hydraulic pressure

-Cycle MBT and VBT hull valves 0.2%

1500

-Vent MBT's

-Check hydraulic pressure

-Cycle MBT and VBT hull

A1 16125 B1 12469 C 12470  
 A2 ~~12434~~ B2 16263 D ~~15269~~  
 15269

1210 265° ALT 70' CK Comp  
 1215 Lights #1, 2, 3 on VLU 9, 8, 10  
 1216 Desending  
 1220 B.F. on Bottom @ 56 Meters  
 1231 BF OFF BOTTOM 191° FT-Heading West  
 1235 - STOPPED MOTORS FOR CFM Sweep- Neg.  
 1240 - B.F. Moving ALONG BOTTOM - DEPTH 55 METERS -  
 HEADING 270° - EXTERIOR WATER TEMP, 18.5°C  
 1244 - ALL MOTORS STOPPED  
 1245 - BF ON BOTTOM AT 56 METERS  
 1254 - SURFACE 55.2  
 1300 - BF ON BOTTOM DEPTH 56 METERS  
 VISIBILITY ZERO.  
 1305 - BF PREPARING TO SURFACE  
 1312 - PUT #6 AIR FLASK ON LINE - SECURED  
 #2 FLASK

1320 FLOODING PORT VBT.  
 1323 - SECURED FLOODING PORT VBT  
 1326 - BF OFF BOTTOM  
 1330 - BF ON SURFACE  
 1340 - STB SHOT TANK INDICATES IT  
 IS FULL. SHOT WAS DROPPED  
 SIMULTANEOUSLY EXHAUSTED.  
 NO SELECTIVE DROPS.

2145 5 8 10 VENT LIGHTS ON  
 1 RES " "

#6 AB OFF SURV. #2 ON 24 Paul Campbell

Revision 1  
 12 May 1969

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>2/28/70</u> 00-04	0000	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Record air flask readings: Flask #1 <u>175</u> ; #2 <u>195</u> ; #3 <u>194</u> ; #4 <u>201</u> ; #5 <u>200</u> ; #6 <u>86</u>	
Position: _____ _____ _____			
Weather: _____ Dive # <u>52</u>			
2449 - Released Tow line			
0110 - TRANSFERRED ONE (1) SCUBA TANK TO PRIDE TEER			
0130 - Rig For Dive CHECK COMPLETE			
0134 - Diving			
0145 - 20 METERS		-Check equipment not in use in Off/Standby position	
0147 - 30 METERS		-Check F.W. valves shut	
0153 - 36 METERS		-Record battery readings	
0154 - ON THE BOTTOM AT 37 METERS		-Carbon Dioxide % _____	
0221 - BF MOVING ALONG BOTTOM - HEADING 045° - DEPTH 37 METERS		-Oxygen % _____	
0227 - BF OFF THE BOTTOM - HEADING 090° - DEPTH 26 METERS		-Cabin Temperature _____ -Cabin Pressure _____ -Sea Water Temp _____ -Cabin Humidity _____	
0232 - SHOT ON MAGNETIC	0100	-Vent MBT's ✓ -Check hydraulic pressure ✓ -Cycle MBT and VBT hull valves	
0300 - Head - 045° ALT 60'			
0305 - on Bottom @ 39 Meters	0200	-Vent MBT's ✓ -Check hydraulic pressure ✓ -Cycle MBT and VBT hull valves	
0330 - CERT OK. O.K.		valves <u>0.7</u> <u>21.5</u> <u>70</u>	
0333 - BF MOVING ALONG BOTTOM HEADING 0° - DEPTH 39 METERS	0300	-Vent MBT's ✓ -Check hydraulic pressure ✓ -Cycle MBT and VBT hull valves	
0357 - BF ON BOTTOM - DEPTH 39 METERS	1421		

Paul Campbell

Franklin Underway Log Sheet

Dive #52

	Time	Routine	Check
Date <u>2/28/70</u>	0400	-Check bilges, penetrators and main battery fuse boxes for water	
04-08		✓ -Cycle MBT and VBT hull valves	
Position:		✓ -Check hull valves for proper position	
Weather:		✓ -Check LOX tanks for leaks	
0420 - BF MOVING ALONG BOTTOM - HEADING		✓ -Vent Main Ballast Tanks	
040° - DEPTH 39 METERS.		✓ -Check emergency ballast hydraulic pressure	
0500 - GERT CK: OK		✓ -Check VBT's for pressure buildup	
0504 - B.F. ON BOTTOM @ 38.8 METERS		✓ -Record air flask readings (flasks in service)	
0520 - POSIT 28° - 02' N		Flask #1 <u>17A</u> #2 <u>184</u> ;	
80° - 06' W		#3 <u>183</u> ; #4 <u>200</u> ;	
0525 - B.F. MOVING ALONG BOTTOM - HEAD 046°		#5 <u>200</u> ; #6 <u>87</u>	
@ 38.8 METERS		✓ -Check equipment not in use in Off/Standby position	BATTERY
0530 - GERT CHECK OK.		✓ -Record battery readings	01315.77
0533 - BF ON BOTTOM FULL STOP.		✓ -Check F.W. valves shut	92 0
0600 - GERT CHECK OK.		✓ -Carbon Dioxide% <u>0.6%</u>	B1 198.7k
0606 - B.F. MOVING ALONG BOTTOM 080°		✓ -Oxygen % <u>21.5%</u>	C 199.74
@ 39 METERS		✓ -Cabin Temperature <u>75°F</u>	B2 250.6k
0615 - ALL STOP FOR CTIM SWEEP		✓ -Sea Water Temp. <u>20.5°C</u>	D 498.25
NEG. TARGET		✓ -Cabin Pressure <u>1.1 Kg/cm<sup>2</sup></u>	
0635 - SURFACE WEATHER - OVERCAST		✓ -Cabin Humidity <u>73%</u>	
SS. 1	0500	-Vent MBT's	
0642 -	142	-Check hydraulic pressure	
0645 - BF CLEARED TO SURFACE		✓ -Cycle MBT and VBT hull valves	
0650 - BF ON SURFACE,	0600	-Vent MBT's	
Paul		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves <u>0.2%</u>	
	0700	-Vent MBT's	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

Revision 1  
12 May 1969



Franklin Underway Log Sheet

	Time	Routine	Check
<p>Date <u>3/1/70</u></p> <p>08-1205 <del>16-20</del></p>	1600	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
<p>Position: <u>TURNING BASIN PORT OF P.B.</u></p>		<ul style="list-style-type: none"> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> </ul>	
<p>Weather:</p>		<ul style="list-style-type: none"> <li>-Vent Main Ballast Tanks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> </ul>	
<p>0906 - Released Tow Line</p> <p>0937 - Tied up SLIP TWO PORT OF PALM BEACH</p>		<ul style="list-style-type: none"> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>	
<p><i>Paul J. Campbell</i></p>		<p>Flask #1 _____; #2 _____</p> <p>#3 _____; #4 _____</p> <p>#5 _____; #6 _____</p>	
		<ul style="list-style-type: none"> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>	
	1700	<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1800	<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1900	<ul style="list-style-type: none"> <li>-Vent MBT's</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	

Revision 1  
12 May 1969

Franklin Underway Log Sheet

Dive # 53

	Time	Routine	Check
Date <u>5 MARCH 1970</u>	0800	-Replace LiOH panels	
08-12		-Conduct thorough boat inspection	
Position:		-Cycle MBT and VBT hull valves	
Weather:		-Check hull valves for proper position	
0954 - UNDERWAY		-Check LOX tanks for leaks	
1019 - UNDER TOW		-Vent Main Ballast Tanks	
1020 - SECURED PROP.		-Check emergency ballast hydraulic pressure	
1022 - PROP ON LINE - 2 INVERTERS - TURM mode		-Check VBT's for pressure buildup	
1029 - SECURED PROP.		-Air flask readings (flasks in service)	
1031 - ALL HANDS BELOW HATCH SECURED		Flask #1 _____; #2 _____;	
1153 - CLEAN RFD OPEN VENT		#3 _____; #4 _____;	
5810 VENT LIGHTS ON HIRES ON		#5 _____; #6 _____	
00 AB 1/2 TO DRAG DOWN		-Check equipment not in use in Off/Standby position	
L.C. Sorensen		-Check F.W. valves shut	
		-Record battery readings	
		-Carbon Dioxide % _____	
		-Oxygen % _____	
		-Sea Water Temp. _____	
		-Cabin Humidity _____	
		-Cabin Pressure _____	
		-LOX pressure _____	
		-Fwd _____ Aft _____	
		-Record F.W. & LOX tank levels	
	0900	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1000	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1100	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
		NOTE: If motors have been idle, meggar before using.	

Change No. 1  
20 February 1970

Franklin Underway Log Sheet

		Time	Routine	Check:
Date <u>3-5-70</u>		1200	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service) Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____ -Test emergency ballast alarm -Check equipment not in use in Off/Standby position -Vent Main Ballast Tanks -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Cabin Temperature _____ -Sea water temp. _____ -Cabin Humidity _____ -Cabin Pressure _____	
12-16				
Position:				
Weather:				
	STILL HUNG ON SURF AB 1/2			
1205	10 SEC BOTH			
	10 SEC BOTH			
1210	10 " " GYRO TUMBLER			
	10 " " RESTARTING			
1212	IN TRIM DESCENDING			
1218	B.F. ON BOTTOM @ 130 METERS			
1229	#1, 2, 3, 5, 8, 10 LIGHTS ON S.M.S.			
1334	5 SEC BOTH			
	5 SEC "			
	5 SEC STBD			
	5 " PORT			
1338	OFF BOTTOM 270 P&T	1300	-Check Gyrocompass -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1345	ON BOTTOM	1400	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1354	5 SEC PORT	1500	-Is Shot Magnetized? -Check hydraulic pressure -Cycle MBT and VBT hull	
1403	OFF BOTTOM 270 P&T SPEED DATA			
1420	DESCENDING TO BOTTOM.			
1428	B.F. ON BOTTOM @ 69 METERS			
1435	5 SEC BOTH			
1442	B.F. @ 10' - 270°			
1510	SURFACE D XFER 4 OFF 3 ON			
1540	DIVING			

Change No. 1  
 OFF 20 Feb. 1970  
 Maurice, Green, Chauve, Paris  
 Keener, Postupack, VANA ON FOR DIV

Be Soumer

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>3 5 . 70</u>	1600	-Check bilges, penetrators and main battery fuse boxes for water	
16-20		-Cycle MBT and VBT hull valves	
Position:		-Check hull valves for proper position	
Weather:		-Check LOX tanks for leaks	
1613 SURFACED		-Vent Main Ballast Tanks	
1932 SECURED PROP.		-Check emergency ballast hydraulic pressure	
<i>BE Sorensen</i>		-Check VBT's for pressure buildup	
		-Air flask readings (flasks in service)	
		Flask #1 _____; #2 _____	
		#3 _____; #4 _____	
		#5 _____; #6 _____	
		-Check equipment not in use in Off/Standby position	
		-Check F.W. valves shut	
		-Record battery readings	
		-Carbon Dioxide % _____	
		-Oxygen % _____	
		-Cabin Temperature _____	
		-Sea water temp. _____	
		-Cabin Humidity _____	
		-Cabin Pressure _____	
	1700	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1800	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1900	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

Time Routine Check

Date 3/9/70

08-12

Position: PORT OF PALM BEACH, FLA.

Weather: CLEAR - Wind 18-20 W

- 1119 - UNDERWAY
- 1130 - MAL FUNCTION IN INVERTER CIRCUIT
- 1325 - INVERTERS REPAIRED
- 1337 - UNDER TOW BY MV PRIVATEER

GUESTS ON BOARD

GRAN MORCAN      D. SPRINCE  
 Lt. Below        W. NORTH  
 MI. MARKEY      S. MACLEOD  
                     S. GERARD

*Paul Campbell*

- 0800
- Replace LiOH panels
  - Conduct thorough boat inspection
  - Cycle MBT and VBT hull valves
  - Check hull valves for proper position
  - Check LOX tanks for leaks
  - Vent Main Ballast Tanks
  - Check emergency ballast hydraulic pressure
  - Check VBT's for pressure buildup
  - Air flask readings (flasks in service)
  - Flask #1 \_\_\_\_\_; #2 \_\_\_\_\_;
  - #3 \_\_\_\_\_; #4 \_\_\_\_\_;
  - #5 \_\_\_\_\_; #6 \_\_\_\_\_
  - Check equipment not in use in Off/Standby position
  - Check F.W. valves shut
  - Record battery readings
  - Carbon Dioxide % \_\_\_\_\_
  - Oxygen % \_\_\_\_\_
  - Sea Water Temp. \_\_\_\_\_
  - Cabin Humidity \_\_\_\_\_
  - Cabin Pressure \_\_\_\_\_
  - LOX pressure \_\_\_\_\_
  - Fwd \_\_\_\_\_ Aft \_\_\_\_\_
  - Record F.W. & LOX tank levels

- 0900
- Check hydraulic pressure
  - Cycle MBT and VBT hull valves

- 1000
- Oxygen % \_\_\_\_\_
  - Check hydraulic pressure
  - Cycle MBT and VBT hull valves

- 1100
- Is Shot Magnetized?
  - Check hydraulic pressure
  - Cycle MBT and VBT hull valves

NOTE: If motors have been idle, meggar before using.

Change No. 1  
 20 February 1970

Franklin Underway Log Sheet

Date <u>3/9/70</u>	Time	Routine	Check
12-16	1200	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service)	
Position:		Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____	
Weather:		-Test emergency ballast alarm -Check equipment not in use in Off/Standby position -Vent Main Ballast Tanks -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Cabin Temperature _____ -Sea water temp. _____ -Cabin Humidity _____ -Cabin Pressure _____	
1438 OPEN MBT V/V			
1447 SAIL UNDER			
1448 15 sec. Both sides SHOT DROP 15 sec. " " " "			
1449 45 METERS - TRIM 5 sec. Both sides - SHOT DROP			
1450 #1 #2 #3 #5 #8 #10 LIGHTS			
1452 5 sec Both sides - SHOT DROP			
1453 5 " " " " "			
1454 20 " " " " "			
1455 10 " Both sides - SHOT DROP			
1458 5 sec " " " "			
1459 10 " " " "			
1505 5 " " " "			
1509 B.F. on Bottom @ 63 METERS	1300	-Check Gyrocompass -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1535 B.F. OFF Bottom Heading 180°			
1545 5 sec Both sides - SHOT	1400	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1555 B.F. @ 15' HEAD 200' - 46 METERS			
	1500	-Is Shot Magnetized? <input checked="" type="checkbox"/> -Check hydraulic pressure -Cycle MBT and VBT hull	

Russ C. Swensen

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>03-09-70</u>	1600	-Check bilges, penetrators and main battery fuse boxes for water	
16-20	✓	-Cycle MBT and VBT hull valves	
Position:	✓	-Check hull valves for proper position	
Weather:	✓	-Check LOX tanks for leaks	
1607 - SURFACE	✓	-Vent Main Ballast Tanks	
1611 - BF ON SURFACE	✓	-Check emergency ballast hydraulic pressure	
1620 - UNDER TOW	142	-Check VBT's for pressure buildup	
1734 - DOCK SIDE	✓	-Air flask readings (flasks in service)	
<p><i>Paul J. Campbell</i></p>		Flask #1 <u>180</u> ; #2 <u>192</u>	22197
		#3 <u>176</u> ; #4 <u>203</u>	25386
		✓ #5 <u>180</u> ; #6 <u>198</u>	16735
		-Check equipment not in use in Off/Standby position	21510
		✓ -Check F.W. valves shut	16420
		✓ -Record battery readings	44200
		-Carbon Dioxide % _____	
		-Oxygen % <u>21.3</u>	
		-Cabin Temperature <u>75°</u>	
		-Sea water temp. <u>22°</u>	
		-Cabin Humidity <u>65%</u>	
		-Cabin Pressure <u>1.04</u>	
	1700	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1800	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1900	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>3/10/70</u>	0800	-Replace LiOH panels	
08-12		-Conduct thorough boat inspection	
Position: SLIP TOW PORT OF P.B. FLA		-Cycle MBT and VBT hull valves	
Weather: CLEAR - Wind-0,		-Check hull valves for proper position	
0930 - UNDERWAY		-Check LOX tanks for leaks	
0935 - UNDER TOW BY MV. PRIVATEER		-Vent Main Ballast Tanks	
<del>---</del> GUESTS ABOARD		-Check emergency ballast hydraulic pressure	
CULBERTSON      LOVELLCTT		-Check VBT's for pressure buildup	
LOHMAN            O'NEIL		-Air flask readings (flasks in service)	
COOPER            BARBETTA		Flask #1 <sup>online</sup> <u>197</u> ; #2 <u>198</u> ;	
ALLEN		#3 <u>195</u> ; #4 <u>203</u> ;	
1048 - ON STATION AT DIVE SITE		#5 <u>201</u> ; #6 <u>204</u>	
1055 - DROPPED TOW LINE		-Check equipment not in use in Off/Standby position	
1102 - COMPLETED RIG FOR DIVE		-Check F.W. valves shut	
1103 - OPENED MBT - DIVING		-Record battery readings	
06 - MBT'S FULL		-Carbon Dioxide % _____	
1109 - BUBBLE UNDER		-Oxygen % _____	
1109 - DROPPED SHOT PORT & STB - 15 SEC.		-Sea Water Temp. _____	
1110 - DROPPED SHOT PORT & STB - 20 SEC.		-Cabin Humidity _____	
1111 - DROPPED SHOT PORT & STB - 10 SEC.		-Cabin Pressure _____	
1113 - DROPPED SHOT PORT & STB - 10 SEC.		-LOX pressure _____	
1114 - DROPPED SHOT PORT & STB - 10 SEC.		-Fwd _____ Aft _____	
1118 - DROPPED SHOT PORT & STB - 10 SEC.		-Record F.W. & LOX tank levels	
1120 - BF AT 50 METERS - ALT. 15 FT		0900 - Check hydraulic pressure	
1120 - HEADING - 210°		-Cycle MBT and VBT hull valves	
1125 - BF AT 53 METERS - ALT. 15 FT - BEARING 190°		1000 - Oxygen % <u>21.950</u>	
1133 - BF AT 53 METERS - ALT. 9 FT - BRG. 230°		1100 - Check hydraulic pressure	
1137 - SALT WATER SENSORS LIGHTS 1, 2, 3, 8, 10 ON		-Cycle MBT and VBT hull valves	
1138 - BF AT 46 METERS - HEADING 300°		1100 - Is Shot Magnetized? <u>Yes</u>	
1145 - BF AT 36 METERS - HEADING 322°		1100 - Check hydraulic pressure	
1159 - BF AT 27 METERS - HEADING 030°		-Cycle MBT and VBT hull valves	
<i>Paul Sampford</i>		NOTE: If motors have been idle, meggar before using.	

Change No. 1

20 February 1970



Franklin Underway Log Sheet

	Time	Routine	Check:
Date <u>3/10/70</u>	1200	✓ Check bilges, penetrators and main battery fuse boxes for water	
12-16		✓ -Cycle MBT and VBT hull valves	
Position: <u>3 MILES SE, P.B. INLET AT 30 METERS</u>		✓ -Check hull valves for proper position	
Weather:	142	✓ -Check LOX tanks for leaks	
1200 - BF AT 30 METERS - HEADING 030°		✓ -Check emergency ballast hydraulic pressure	
1233 - BF CLEARED TO SURFACE		✓ -Check VBT's for pressure buildup	
1235 - BF ON SURFACE		-Air flask readings (flasks in service)	
1251 - TRANSFERRED 4 GUESTS TO PR. VETEER.		Flask #1 <u>197</u> ; #2 <u>203</u> ;	
1257 - TRANSFERRED 3 GUESTS TO MV. PR. VETEER		#3 <u>196</u> ; #4 <u>206</u> ;	
1305 - UNDERTOW BY MV. PR. VETEER		#5 <u>20A</u> ; #6 <u>208</u>	
1422 - DROPPED THE TOW FROM MV. PR. VETEER		-Test emergency ballast alarm	
1445 - SECURED PROPULSION.		-Check equipment not in use in Off/Standby position	
<i>Paul J. Campbell</i>		-Vent Main Ballast Tanks	
		-Check F.W. valves shut	305.62
		-Record battery readings	950.6x
		-Carbon Dioxide % _____	269.35
		-Oxygen % <u>21.90</u>	265.41
		-Cabin Temperature <u>78.7</u>	327.41
		-Sea water temp. _____	604.15
		-Cabin Humidity _____	
		-Cabin Pressure <u>1.01</u>	
	1300	-Check Gyrocompass	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1400	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1500	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull	

Change No. 1  
20 Feb. 1970

Dive 57

Franklin Underway Log Sheet

Time Routine Check

Date 3/11/70

08-12

Position: SLIP TWO PORT OF P.B. FLA.

Weather: CLOUDY - WIND 8-10 S.E.

- 0908 - UNDERWAY
- 0928 - UNDER TOW BY M.V. PRIVATEER
- 0943 - RIG FOR SEA CHECK COMPLETE
- 1035 - ON STATION AT DIVE SITE
- 1040 - DROPPED TOW LINE
- 1058 - B.F. CLEARED TO DIVE
- 1059 - B.F. DIVING DIVE 57
- 1108 - DROP SHOT BOTH SIDES 20 SEC.
- 1109 - " " " " 10 SEC.
- 1110 - " " " " 10 SEC.
- 1110 - " " STD. SIDE 10 SEC.
- 1110 - " " PORT. " 10 SEC.
- 1114 - B.F. AT BOTTOM - 38 METERS. HEAD 010°
- 1116 - LIGHTS # 1, 2 581° ON
- 1119 - HEAD 340°
- 1120 - DROP SHOT BOTH SIDES 10 SEC.
- 1125 - HEAD 290°
- 1132 - HEAD 125°
- 1144 - HEAD 000°
- 1150 - B.F. ON BOTTOM @ 60 METERS

Paul Hawpelt

- 0800 - Replace LiOH panels
- Conduct thorough boat inspection
- Cycle MBT and VBT hull valves
- Check hull valves for proper position
- Check LOX tanks for leaks
- Vent Main Ballast Tanks
- Check emergency ballast hydraulic pressure
- Check VBT's for pressure buildup
- Air flask readings (flasks in service)
- Flask #1 175; #2 196;
- #3 191; #4 198;
- #5 200; #6 202
- Check equipment not in use in Off/Standby position
- Check F.W. valves shut
- Record battery readings
- Carbon Dioxide % \_\_\_\_\_
- Oxygen % \_\_\_\_\_
- Sea Water Temp. \_\_\_\_\_
- Cabin Humidity \_\_\_\_\_
- Cabin Pressure \_\_\_\_\_
- LOX pressure \_\_\_\_\_
- Fwd \_\_\_\_\_ Aft \_\_\_\_\_
- Record F.W. & LOX tank levels
- 0900
- 1045 ✓ -Check hydraulic pressure
- ✓ -Cycle MBT and VBT hull valves
- 1000 -Oxygen % \_\_\_\_\_
- Check hydraulic pressure
- Cycle MBT and VBT hull valves
- 1100 -Is Shot Magnetized?
- 1045 ✓ -Check hydraulic pressure
- ✓ -Cycle MBT and VBT hull valves

NOTE: If motors have been idle, meggar before using.

Change No. 1

20 February 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>9/11/70</u>	1200	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> <li>Flask #1 _____; #2 _____;</li> <li>#3 _____; #4 _____;</li> <li>#5 _____; #6 _____</li> <li>-Test emergency ballast alarm</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Vent Main Ballast Tanks</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> <li>1300 - Check Gyrocompass</li> <li>1400 - Check hydraulic pressure</li> <li>1400 - Cycle MBT and VBT hull valves</li> <li>1400 - Oxygen % <u>20.4%</u></li> <li>1400 - Check hydraulic pressure</li> <li>1400 - Cycle MBT and VBT hull valves</li> <li>1500 - Is Shot Magnetized?</li> <li>1500 - Check hydraulic pressure</li> <li>1500 - Cycle MBT and VBT hull</li> </ul>	
12-16			
Position:			
Weather:			
<p>1216 - B.F. ON SURFACE            GUESTS ON BOARD Dive # 57            R. WADDE D. CUTLER            N. CHEERA D. BENORT            A. ROBERTS D. HILDEN</p>			
Dive # 58			
1236 - B.F. CLEARED TO DIVE - VENTS OPEN			
1245 - BUBBLE UNDER			
1255 - B.F. AT 26 METERS - HEADING 030°			
1256 - B.F. HEADING 060° GUESTS ONBOARD			
<p>BARBETTA JONES            LEE O'CONNOR            COOKLEY SIDDERIGAY</p>			
1330 - GERTRUDE OK			
1332 - B.F. ON BOTTOM @ 50 METERS			
1355 - REQUEST CLEARANCE TO SURFACE			
1358 - CLEARED TO SURFACE			
1400 - B.F. ON SURFACE			
1408 - TRANSFERRED SIX GUESTS TO MV. PRIVATEER			
1420 - UNDERTOW BY MV. PRIVATEER.			
1542 - SECURED PROPULSION			
<p><i>Paul Campbell</i></p>			

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

Time Routine Check

Date 3/13/78

08-12

Dive # 59

Position: SLIP TWO PORT OF R.R. FLR

Weather: cloudy - wind WSW 5 KTS.

0907 - UNDERWAY

DISREGARD 0931 - UNDERWAY BY

0931 - UNDERWAY BY MV PRIBETEK

1024 - CONSTATION AT DIVE SITE

1046 - BF CLEARED TO DIVE

1047 - MBT VENTS OPEN - DIVING

1056 - 30 SEC. BOTH

58 15 " "

59 15 " "

1115 - BF ON BOTTOM AT 100 METERS

1142 - BF AT 70 METERS: HEADING 200°

GUESTS ONBOARD

J. JORDAN R. QUICK

DR A. SPILHAUS J. BARBETTA

CAPT. H.W. GELMAN D. BOLTON

1158 - BF AT 45 METERS HEADING 230°

Paul Campbell

0800

- Replace LiOH panels
- Conduct thorough boat inspection
- Cycle MBT and VBT hull valves
- Check hull valves for proper position
- Check LOX tanks for leaks
- Vent Main Ballast Tanks
- Check emergency ballast hydraulic pressure
- Check VBT's for pressure buildup
- Air flask readings (flasks in service)
- Flask #1 \_\_\_\_\_; #2 \_\_\_\_\_;
- #3 \_\_\_\_\_; #4 \_\_\_\_\_;
- #5 \_\_\_\_\_; #6 \_\_\_\_\_;

- Check equipment not in use in Off/Standby position
- Check F.W. valves shut
- Record battery readings
- Carbon Dioxide % \_\_\_\_\_
- Oxygen % \_\_\_\_\_
- Sea Water Temp. \_\_\_\_\_
- Cabin Humidity \_\_\_\_\_
- Cabin Pressure \_\_\_\_\_
- LOX pressure \_\_\_\_\_
- Fwd \_\_\_\_\_ Aft \_\_\_\_\_
- Record F.W. & LOX tank levels

0900

- Check hydraulic pressure
- Cycle MBT and VBT hull valves

1000

- Oxygen % \_\_\_\_\_
- Check hydraulic pressure
- Cycle MBT and VBT hull valves

1100

- Is Shot Magnetized?
- Check hydraulic pressure
- Cycle MBT and VBT hull valves

NOTE: If motors have been idle, meggar before using.

Change No. 1

20 February 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>3/13/70</u>	1200	-Check bilges, penetrators and main battery fuse boxes for water	
12-16 <u>Dive # 59</u>		-Cycle MBT and VBT hull valves	
Position:		-Check hull valves for proper position	
Weather:		-Check LOX tanks for leaks	
<u>1200 - BF AT 46 METER - HEADING 200</u>		-Check emergency ballast hydraulic pressure	
<u>1229 - GERTURDE 575</u>		-Check VBT's for pressure buildup	
<u>1245 - BF CLEAR TO SURFACE</u>		-Air flask readings (flasks in service)	
<u>1248 - BF ON SURFACE</u>		Flask #1 <u>174</u> ; #2 <u>194</u> ;	
<u>1303 - BF UNDERTOW BY MV. PRIDE TEER</u>		#3 <u>187</u> ; #4 <u>201</u> ;	
<u>1329 - DROPPED TOW LINE</u>		#5 <u>195</u> ; #6 <u>196</u>	
<u>1415 - SECURED PROPULSION - DOCKSIDE</u>		-Test emergency ballast alarm	
<u>Paul Campbell</u>		-Check equipment not in use in Off/Standby position	
		-Vent Main Ballast Tanks	
		-Check F.W. valves shut	
		-Record battery readings	
		-Carbon Dioxide % <u>5.7%</u>	
		-Oxygen % <u>21%</u>	
		-Cabin Temperature <u>72.2°</u>	
		-Sea water temp. _____	
		-Cabin Humidity <u>62%</u>	
		-Cabin Pressure <u>1.1</u>	
	1300	-Check Gyrocompass	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1400	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1500	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull	

Change No. 1  
20 Feb. 1970

A1 - 185.16

A2 - 211.11

B1 - 181.92

B2 - 229.26

C - 182.40

D - 369.76

Franklin Underway Log Sheet

Date	Time	Routine	Check
18 Mar 70	<del>0800</del> 1700	-Replace LiOH panels	✓
08-12		-Conduct thorough boat inspection	✓
Position: Port of Palm Beach		-Cycle MBT and VBT hull valves	✓
Weather: 12-20 Kts. from S.E. Cloudy		-Check hull valves for proper position	✓
0855 - UNDERWAY		-Check LOX tanks for leaks	
0930 - UNDER TOW BY M.V. PRIDEER		-Vent Main Ballast Tanks	✓
1455 - ON STATION AT DIVE SITE - 390 FTH.		-Check emergency ballast hydraulic pressure	✓
1502 - DROPPED TOW LINE		-Check VBT's for pressure buildup	✓
1522 - OPENED MBT VENTS - DIVEING * Dive #60		-Air flask readings (flasks in service)	
1529 - SALT WATER SENSORS 1,2 RES, 5,8,10 VENT #13 MANIFOLD		Flask #1 <u>200</u> ; #2 _____;	
1535 - 85% TRIM WATER Fwd		#3 _____; #4 _____;	
1535 - DROPPED SHOT TO ACTIVATE N.Buoyancy		#5 _____; #6 _____	
1545 - BF AT 32 METERS & HOLDING		-Check equipment not in use, in Off/Standby position	✓
1547 - Shifting lead haul - very heavy aft. 20 bags almost all trim water fwd.		-Check F.W. valves shut	✓
1636 Taking 1st set of readings at 30.5m.		-Record battery readings	ND
1640 at 60m installing LiOH panels		-Carbon Dioxide % _____	
1652 Taking 2nd set of readings		-Oxygen % <u>21.6</u>	
1658 Lost Limit switch for #3 water (75 meters)		-Sea Water Temp. <u>34</u>	
1704 Taking readings - will continue to 200 ft. AT 95m. now.		-Cabin Humidity <u>58</u>	
1722 At 122m		-Cabin Pressure <u>Temp. 79.5</u> <u>1.03</u>	
1730 At 130m Lights 2 & 3 on Vents 8 & 10 in. Telet shut out 2000 lbs.		-LOX pressure <u>90</u>	
1733 At 160m.		-Fwd <u>full</u> Aft <u>full</u>	
1744 At 183m		-Record F.W. & LOX tank levels	
1752 At 214m over		-Check hydraulic pressure	
	0900	-Cycle MBT and VBT hull valves	
	1000	-Oxygen % _____	
	1100	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
		-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
		NOTE: If motors have been idle, meggar before using.	

\*CREW  
D. Kazimir  
Don Potter  
R. Gregory  
B. Sorenson  
P. Campbell

Change No. 1  
20 February 1970

1800 1, 2, 3, Res. Lights on  
5, 8, 10 Vent. Lights on

1801 AT 244 m ~~Limit switch for #4 P.M.~~  
~~motor out. D.K.~~

1810 276 fath. water under The Keel

1814 at 305 m.

1829 AT 332 M 240 fathoms under The Keel

1840 Messaged Motors #1 11 wegs. #3 7 wegs.  
#2 10 wegs. #4 4 wegs.

Moved 6 bags of lead fwd.

1910 SAS Leat's badly

1915 BF AT 366 METERS

1924 BF AT 397 METERS 190 fathoms under The Keel

1939 BF AT 427 M.

1951 BF AT 457 M.

Paul Campbell



Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>18 MAR 1970</u>	2000	-Check bilges, penetrators and main battery fuse boxes for water	
20-24		-Cycle MBT and VBT hull valves	
Dive #60		-Check hull valves for proper position	
Position: <u>25 miles NE of PALM BEACH FLA</u>		-Check LOX tanks for leaks	
Weather:		-Vent Main Ballast Tanks	
2005 - 140 FATHOMS UNDER KEEL		-Check emergency ballast hydraulic pressure	
2015 - Moved 10 bags of lead sand.		-Check VBT's for pressure buildup	
2016 - AT 520 m		-Air Flask readings (flasks in service)	
2020 - BFT 558 m. 130 fathoms under the keel		Flask #1 <sup>INS</sup> <u>186</u> ; #2 <u>190</u> ;	
2100		#3 <u>175</u> ; #4 <u>200</u> ;	
measured meters at 565 m.		#5 <u>166</u> ; #6 <u>20</u>	
#1 18 wags #3 7 wags		-Check equipment not in use in Off/Standby position	
#2 20 wags #4 1 wags		-Check F.W. valves shut	
Dropping		-Record battery readings	
2123 AT 580 m 110 fathoms under keel	NO	-Carbon Dioxide % <u>0.1%</u>	
2130 AT 610 m - 2000 ft.		-Oxygen % <u>21.3%</u>	
2136 AT 580 m		-Cabin Temperature <u>73°</u>	
2145 AT 578 m		-Sea water temp. <u>16°C</u>	
2209 AT 488 m		-Cabin Humidity <u>61.5%</u>	
2208 AT 457 m		-Cabin Pressure <u>1.025</u>	
2220 AT 427 m	NO	-Conduct contaminant checks	
2227 AT 397 m	2100	-Check hydraulic pressure	
2236 AT 366 m		-Cycle MBT and VBT hull valves	
DK 2255 AT 305 m	2200	-Oxygen % <u>20.8</u>	
DIC 2255 AT 275 m		-Check hydraulic pressure	
D.K. Paul Campbell	2300	-Cycle MBT and VBT hull valves	
		Is Shot Magnetized? <u>yes</u>	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date	19 Mar 70		
00-04			
Position:	Approx 28 mi NE of Palm Beach		
Weather:	Calm		
0000	AT 275 m	Conducting sonar tape recordings for USN/USC	
0003	AT 245 m		
0008	AT 214 m		
0014	AT 183 m		
0023	AT 153 m		
0032	AT 123 m		
0043	AT 94 m		
0058	AT 60 m		
0905		hoisted #3 4 mags tractors #4 5 mag	
0107	AT 31 m		
0118	AT 60 m		
0127	AT 95 m		
0144	AT 122 m		
0154	AT 153 m		
0205	AT 183 m		
0216	AT 214 m		
0229	AT 243 m		
0242	AT 275 m		
0330	AT 305 m	230 Fathoms under the Keel	
0344	AT 336 m		
0350	AT 366 m		
		WJ Kaye Paul H. Campbell	
0000		-Check bilges, penetrators and main battery fuse boxes for water ✓ -Cycle MBT and VBT hull valves ✓ -Check hull valves for proper position ✓ -Check LOX tanks for leaks ✓ -Vent Main Ballast Tanks ✓ -Check emergency ballast hydraulic pressure ✓ -Check VBT's for pressure buildup ✓ -Record air flask readings: Flask #1 <u>176</u> ; #2 _____ ; #3 _____ ; #4 _____ ; #5 _____ ; #6 _____ -Check equipment not in use in Off/Standby position ✓ -Check F.W. valves shut ✓ -Record battery readings <u>NO</u> -Carbon Dioxide % _____ -Oxygen % <u>20.8</u> -Cabin Temperature <u>66</u> -Cabin Pressure <u>1.03</u> -Sea Water Temp <u>21.2</u> -Cabin Humidity <u>68%</u>	
0100		-Check hydraulic pressure -Cycle MBT and VBT hull valves	
0200		-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
0300		-Is Shot Magnetized? <u>yes</u> -Check hydraulic pressure ✓ -Cycle MBT and VBT hull valves ✓ <u>21.3 % Oxygen</u>	

Franklin Underway Log Sheet

		Time	Routine	Check
Date <u>19 Mar</u>		0400	-Check bilges, penetrators and main battery fuse boxes for water ✓	
04-08			-Cycle MBT and VBT hull valves ✓	
Position:	<u>About 30 mi NE of Palm Beach</u>		-Check hull valves for proper position ✓	
Weather:	<u>Calm</u>		-Check LOX tanks for leaks ✓	
0402	AT 340 m DK		-Vent Main Ballast Tanks ✓	
0415	AT 425 m		-Check emergency ballast hydraulic pressure ✓	
0423	AT 455 m		-Check VBT's for pressure buildup ✓	
0430	AT 488 m		-Record air flask readings (flasks in service)	
0439	AT 518 m		Flask #1 <u>167</u> ; #2 _____;	
0449	AT 548 m 125 fathoms under the keel		#3 _____; #4 _____;	
0538	AT 580 m		#5 _____; #6 _____	
0550	AT 610 m Last reading before ascending		-Check equipment not in use in Off/Standby position ✓	
0558	AT 580 meters		-Record battery readings ✓	
0604	AT 548 m		-Check F.W. valves shut ✓	
0613	AT 518 m		-Carbon Dioxide % <u>0.6</u>	
0619	AT 488 m		-Oxygen % <u>21.2</u>	
0632	AT 457 m		-Cabin Temperature <u>70</u>	
0640	AT 427 m		-Sea Water Temp. <u>19.0</u>	
0646	AT 397 m		-Cabin Pressure <u>1.04</u>	
0655	AT 366 m		-Cabin Humidity <u>61%</u>	
0701	AT 336 m			
0708	AT 305 m		0500 -Check hydraulic pressure ✓	
0713	AT 275 m		-Cycle MBT and VBT hull valves ✓	
0723	AT 245 m		0600 -Oxygen % <u>20.9</u>	
0734	AT 214 m		-Check hydraulic pressure ✓	
			-Cycle MBT and VBT hull valves ✓	
			0700 -Is Shot Magnetized?	
			-Check hydraulic pressure	
			-Cycle MBT and VBT hull valves	

Lost #4 P.M. limit switch some time ago

J. J. Kaye  
Paul Campbell

-Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

Date <u>19 Mar 70</u>	Time	Routine	Check
08-12	0800	-Replace LiOH panels <u>NO</u> -Conduct thorough boat inspection ✓ -Cycle MBT and VBT hull valves <u>NO</u> -Check hull valves for proper position ✓ -Check LOX tanks for leaks ✓ -Vent Main Ballast Tanks ✓ -Check emergency ballast hydraulic pressure ✓ -Check VBT's for pressure buildup ✓ -Air flask readings (flasks in service) Flask #1 <u>122</u> ; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____ -Check equipment not in use in Off/Standby position ✓ -Check F.W. valves shut ✓ -Record battery readings <u>NO</u> -Carbon Dioxide % _____ -Oxygen % <u>20.9</u> -Sea Water Temp. <u>22.5</u> -Cabin Humidity <u>63</u> -Cabin Pressure <u>1.03</u> -LOX pressure <u>Temp 66°</u> -Fwd <u>full</u> Aft <u>full</u> -Record F.W. & LOX tank levels ✓	
Position: <u>About 30 mi NE of Palm Beach</u>			
Weather: <u>Calm, clear</u>			
0800 AT 225m			
0815 AT 183m			
0825 AT 153m			
0834 AT 123m			
0840 AT 94m			
0853 AT 60m			
0900 Completed 2nd Run			
0900 surfaced			
0920 UNDER TOW BY MV PRIVATEER <u>Paul J. Campbell</u>			
<u>20 March 1970</u>			
0814 - OPENED HATCH			
0818 - LI TOFF PROPULSION			
0819 - DROPPED TOWLINE			
0820 - SALT WATER SENSORS VENT VALVES 1, 5, 8, 10			
0856 - SECURED PROPULSION - DOCKSIDE SLIP TWO PORT OF P.B. FLR.	0900	-Check hydraulic pressure -Cycle MBT and VBT hull valves	
0859 - AMP HOUR READINGS A1 - 174.01      C - 189.97 A2 - 199.92      B2 - 227.99 B1 - 188.00      D - 355.68	1000	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
<u>Paul J. Campbell</u>	1100	-Is Shot Magnetized? -Check hydraulic pressure -Cycle MBT and VBT hull valves	
		NOTE: If motors have been idle, meggar before using.	

Change No. 1  
20 February 1970

Franklin Underway Log Sheet

Date	Time	Routine	Check												
<p><u>24 Mar 70</u></p>	1600	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Vent Main Ballast Tanks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> <li>Flask #1 _____; #2 _____</li> <li>#3 _____; #4 _____</li> <li>#5 _____; #6 _____</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>													
<p><del>1600</del> 08-12</p>															
<p>Position: <u>Port of Palm Beach</u></p>															
<p>Weather: <u>10 Kts, Cloudy</u></p>															
<p>0902 - UNDERWAY</p>															
<p>0919 - UNDER TOW BY M.V. PRIVETER</p>															
<p>1055 - ONSTATION AT DIVE SITE - 390 FT</p>															
<p>1113 - DROPPED TOW LINE</p>															
<p>1115 - SHUT WATER 1, 5, 8, 10 VENT VALVES</p>															
<table border="0"> <tr> <td>Crew</td> <td>Guests</td> </tr> <tr> <td>D. KAZMIER</td> <td>C. MORRIS</td> </tr> <tr> <td>B. SORNSON</td> <td>R. CANARY</td> </tr> <tr> <td>R. GREGORY</td> <td>W. CURRY</td> </tr> <tr> <td>P. CAMPBELL</td> <td>E. LANE</td> </tr> <tr> <td></td> <td>M. NIWADE</td> </tr> </table>	Crew	Guests	D. KAZMIER	C. MORRIS	B. SORNSON	R. CANARY	R. GREGORY	W. CURRY	P. CAMPBELL	E. LANE		M. NIWADE			
Crew	Guests														
D. KAZMIER	C. MORRIS														
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P. CAMPBELL	E. LANE														
	M. NIWADE														
<p>1121 - BF CLEARED TO DIVE</p>															
<p>1122 - OPENED MBT VENTS - DIVING</p>															
<p>1135 - BUBBLE UNDER - BEAT VERY LIGHT ON DIVE ALL TRIM WATER FWD. HAVE UP ANGLE</p>															
<p>1138 - 45 METERS - DESCENDING TO BOTTOM</p>															
<p>1143 - 100 METERS - DESCENDING ALT. 25 FT.</p>															
<p>1149 - BF ON BOTTOM AT 100 METERS</p>															
<p>1150 - FLOOD IN PORT &amp; STR VBT</p>															
<p>1152 - #3 POSITION LIMIT SWITCHS OUT</p>															
<p>1155 - C5 TO PARZ INOPERATIVE.</p>															
<p>1159 - PORT &amp; STR VBT FULL</p>															
<p>1200 - BF ON BOTTOM AT 100 METERS</p>															
<p><i>Paul J. Campbell</i></p>															
	1700	<ul style="list-style-type: none"> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>													
	1800	<ul style="list-style-type: none"> <li>-Oxygen % _____</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>													
	1900	<ul style="list-style-type: none"> <li>-Is Shot Magnetized?</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>													

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>24 MARCH 1970</u>	1200	-Check bilges, penetrators and main battery fuse boxes for water	
12-16 <u>Dive #61</u>		-Cycle MBT and VBT hull valves	
Position:		-Check hull valves for proper position	
Weather:		-Check LOX tanks for leaks	
1215 - Meggered MAIN MOTORS		-Check emergency ballast hydraulic pressure	
#1 - 9 MEGOHMS		-Check VBT's for pressure buildup	
#2 - 10 MEGOHMS		-Air flask readings (flasks in service)	
#3 - 6 MEGOHMS		Flask #1 <u>195</u> ; #2 <u>193</u> ;	
#4 - 2 MEGOHMS		#3 <u>170</u> ; #4 <u>206</u> ;	
1225 - GERTRUDE CHECK - OK		#5 <u>195</u> ; #6 <u>186</u>	
1255 - Blowing VBT's		-Test emergency ballast alarm	
1258 Underway heading SW		-Check equipment not in use in Off/Standby position	
1322 CIC <del>200</del> 300 DK		-Vent Main Ballast Tanks	
visibility bad, Sonar no		-Check F.W. valves shut	
good because of up angle -		-Record battery readings	
trim very poor (5-6° up)		-Carbon Dioxide % _____	
1332 Depth 70m		-Oxygen % <u>21.70</u>	
1347 " 50m		-Cabin Temperature <u>74°</u>	
1355 CIC 240 Strong Southerly		-Sea water temp. <u>18.5°C</u>	
(from 180°) current		-Cabin Humidity <u>58%</u>	
1357 CIC 300 AT 35m		-Cabin Pressure <u>1.1 kg/cm<sup>2</sup></u>	
1405 AT 30m CIC 180	1300	-Check Gyrocompass	
1416 Giving up - surfacing - visibility		-Check hydraulic pressure	
stinks		-Cycle MBT and VBT hull valves	
1422 Surfaced	1400	-Oxygen % _____	
1430 undertow BY MV PRIVATEER		-Check hydraulic pressure	
1550 DROPPED TOW LINE		-Cycle MBT and VBT hull valves	
1617 Tied up Port of Palm Beach	1500	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull	

21-25704  
 22-24450  
 23-20662  
 24-30590  
 25-35461  
 26-43152

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>5-31-70</u>	0800	<ul style="list-style-type: none"> <li>-Replace LiOH panels</li> <li>-Conduct thorough boat inspection</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Vent Main Ballast Tanks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> </ul>	
08-12			
Position: <u>Port of Palm Bch.</u>		<ul style="list-style-type: none"> <li>Flask #1 _____; #2 _____;</li> <li>#3 _____; #4 _____;</li> <li>#5 _____; #6 _____</li> </ul>	
Weather: <u>Clear - wind - 0 -</u>		<ul style="list-style-type: none"> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Sea Water Temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> <li>-LOX pressure _____</li> <li>-Fwd _____ Aft _____</li> <li>-Record F.W. &amp; LOX tank levels</li> </ul>	
0917 - underway			
1008 - we'll partially submerge in turning basin to see if we get gear working			
1024 Right for dive completed, diving just enough to cover the deck topside			
Surfaced. Too much bar interference. We'll go out to sea and dive.			
1107 underway			
	0900	<ul style="list-style-type: none"> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1000	<ul style="list-style-type: none"> <li>-Oxygen % _____</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1100	<ul style="list-style-type: none"> <li>-Is Shot Magnetized?</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	NOTE: If motors have been idle, meggar before using.		

Change No. 1  
20 February 1970

Franklin Underway Log Sheet

Date 31 Mar 70

12-16

Position: 6 mi east of Riviera Beach

Weather: Calm, clear

1324 Rigged for dive (rechecked)

1325 Diving - Dive #62

Shifted 65° to trim water feet

Rescending very slowly

1340 A blank penetrator in H-C dripping.

1351 Secured gyro - cut way down on background noise for DATA Link At 100 meters.

1445 Ascending to 50 m.

1524 Ascending to 20 m.

1525 Ascending to Surface

1527 Surfacing

1538 Under tow. Tidal shift Drilled 450 lbs.

1720 TRANSFERRED 3 MEN TO PRIVEER

2230 DRIPPED TOW LINE

2313 Secured PROPULSION - Deckside

*D. J. King*

Time Routine Check

- 1200 -Check bilges, penetrators and main battery fuse boxes for water
- Cycle MBT and VBT hull valves
- Check hull valves for proper position
- Check LOX tanks for leaks
- Check emergency ballast hydraulic pressure
- Check VBT's for pressure buildup
- Air flask readings (flasks in service)
- Flask #1 \_\_\_\_\_; #2 \_\_\_\_\_;
- #3 \_\_\_\_\_; #4 \_\_\_\_\_;
- #5 \_\_\_\_\_; #6 \_\_\_\_\_
- Test emergency ballast alarm
- Check equipment not in use in Off/Standby position
- Vent Main Ballast Tanks
- Check F.W. valves shut
- Record battery readings
- Carbon Dioxide % \_\_\_\_\_
- Oxygen % \_\_\_\_\_
- Cabin Temperature \_\_\_\_\_
- Sea water temp. \_\_\_\_\_
- Cabin Humidity \_\_\_\_\_
- Cabin Pressure \_\_\_\_\_
- 1300 -Check Gyrocompass
- Check hydraulic pressure
- Cycle MBT and VBT hull valves
- 1400 -Oxygen % \_\_\_\_\_
- Check hydraulic pressure
- Cycle MBT and VBT hull valves
- 1500 -Is Shot Magnetized?
- Check hydraulic pressure
- Cycle MBT and VBT hull

Change No. 1  
20 Feb. 1970



Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>2 APRIL '70</u>			
08-12	0800	<ul style="list-style-type: none"> <li>-Replace LiOH panels</li> <li>-Conduct thorough boat inspection</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Vent Main Ballast Tanks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> <li>Flask #1 _____; #2 _____;</li> <li>#3 _____; #4 _____;</li> <li>#5 _____; #6 _____</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Sea Water Temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> <li>-LOX pressure _____</li> <li>-Fwd _____ Aft _____</li> <li>-Record F.W. &amp; LOX tank levels</li> </ul>	
Position: <u>Port of Palm Beach</u>			
Weather: <u>15-20kt: From South</u> <u>Partly Cloudy</u>			
CEA - UNDERWAY			
<u>1040 under tow</u>			
	0900	<ul style="list-style-type: none"> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1000	<ul style="list-style-type: none"> <li>-Oxygen % _____</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1100	<ul style="list-style-type: none"> <li>-Is Shot Magnetized?</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
		NOTE: If motors have been idle, meggar before using.	
		Change No. 1	
		20 February 1970	

*DKg*

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>2 Apr. 70</u>	1200	-Check bilges, penetrators and main battery fuse boxes for water -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service) Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____	
12-16			
Position: <u>3 mi. East of Palm Beach</u>			
Weather: <u>20 Kts from South partly cloudy</u>			
1210 Completed Rise for Dive (in station & fu disconnected at 200)			
1213 Diving - dive #6 by Ray Simpson, D. Kojima, Martin Sorensen & Gregory		-Test emergency ballast alarm -Check equipment not in use in Off/Standby position -Vent Main Ballast Tanks -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Cabin Temperature _____ -Sea water temp. _____ -Cabin Humidity _____ -Cabin Pressure _____	
1223 While powering down - data link line fouled in screws of #2 motor - dive aborted			
1335 LINK repaired - will dive again			
1338 Diving			
1354 Bottomed - 75 meters Flooding port VBT	1300	-Check Gyrocompass -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1415 Secured all power except pingin & und. phone on emergency battery	1400	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1420 Ascending - lost shot when hydro switch off	1500	-Is Shot Magnetized? -Check hydraulic pressure -Cycle MBT and VBT hull	
1430 Landing again 75 meters Floated via SAS to take on extra weight			
Testing data link over			

Change No. 1  
20 Feb. 1970

1545

1550

Surfacing

Surfaced. Well test data link

on the surface again - no luck

at depth.

1659

undertow

J. Martin



Franklin Underway Log Sheet

Dive # 52

Date <u>4/8/70</u>	Time	Routine	Check
08-12  Position:  Weather:	0800	-Replace LiOH panels -Conduct thorough boat inspection -Cycle MBT and VBT hull valves -Check hull valves for proper position -Check LOX tanks for leaks -Vent Main Ballast Tanks -Check emergency ballast hydraulic pressure -Check VBT's for pressure buildup -Air flask readings (flasks in service) Flask #1 _____; #2 _____; #3 _____; #4 _____; #5 _____; #6 _____ -Check equipment not in use in Off/Standby position -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % _____ -Sea Water Temp. _____ -Cabin Humidity _____ -Cabin Pressure _____ -LOX pressure _____ -Fwd _____ Aft _____ -Record F.W. & LOX tank levels	
	0900	-Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1000	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	1100	-Is Shot Magnetized? -Check hydraulic pressure -Cycle MBT and VBT hull valves NOTE: If motors have been idle, meggar before using.	

1002 - UNDERWAY  
 1030 - UNDER TOW BY MV. PR. L'ATEER  
 1130 - DROPPED TOW  
 1142 - BFCLEARED TO DIVE  
 1150 - BF ON BOTTOM AT 12 METERS  
 1200 - STARTED FIRST DATA-LINK TEST  
*Paul Campbell*

Change No. 1  
20 February 1970

Franklin Underway Log Sheet

Dive #64

Time Routine Check

Date 4/3/70

12-16

Position:

Weather:

1205 - Secured PINGER & UW PHONE  
 1215 - PINGER & UW PHONE ON  
 1218 - Secured PINGER & UW PHONE  
 1230 - UW PHONE ON  
 1231 - Secured UW PHONE  
 1240 - PINGER & UW PHONE ON  
 1242 - Secured Pinger & UW PHONE  
 1250 - UW PHONE ON  
 1325 - STARTED SPERRY GYRO  
 1353 - BF OFF BOTTOM ATENDING TO NEAR SURFACE.  
 1413 - BF ON BOTTOM AT 9.5 METERS  
 1420 - BF MOVING ALONG BOTTOM TO DEEPER WATERER  
 1428 - BF ON BOTTOM AT 13 METERS - HEADING 085°  
 1500 - BF MOVING ALONG BOTTOM - HEADING 090° DEPTH 14 METERS  
 1515 - BF HEADING 100° - DEPTH 20 METERS  
 1540 - SHIFTED TO #2 PINGER  
 1541 - #1 PINGER BACK ON  
 1630 - PASSED OVER COOL REEF @ 15 METERS

Paul Campbell

1200 - Check bilges, penetrators and main battery fuse boxes for water  
 ✓ - Cycle MBT and VBT hull valves  
 ✓ - Check hull valves for proper position  
 ✓ - Check LOX tanks for leaks  
 ✓ - Check emergency ballast hydraulic pressure  
 ✓ - Check VBT's for pressure buildup  
 ✓ - Air flask readings (flasks in service)  
 Flask #1 118 ; #2 196 ;  
 #3 201 ; #4 204 ;  
 #5 186 ; #6 76  
 - Test emergency ballast alarm  
 ✓ - Check equipment not in use in Off/Standby position  
 - Vent Main Ballast Tanks  
 - Check F.W. valves shut  
 - Record battery readings  
 - Carbon Dioxide % \_\_\_\_\_  
 ✓ - Oxygen % 21%  
 ✓ - Cabin Temperature 76°  
 - Sea water temp. \_\_\_\_\_  
 ✓ - Cabin Humidity 72.5%  
 ✓ - Cabin Pressure 1.1 Kg/cm  
 1300 - Check Gyrocompass  
 ✓ - Check hydraulic pressure  
 ✓ - Cycle MBT and VBT hull valves  
 1400 - Oxygen % 21%  
 ✓ - Check hydraulic pressure  
 ✓ - Cycle MBT and VBT hull valves  
 1500 - Is Shot Magnctized? yes  
 ✓ - Check hydraulic pressure 140  
 ✓ - Cycle MBT and VBT hull

Change No. 1  
 20 Feb. 1970

Franklin Underway Log Sheet

Dive #64

Date 4/3/70

16-20

Position:

Weather:

1600 - BF ON BOTTOM AT 54 METERS  
 1635 - STARTING DATA LINK TEST.  
 1730 - COMPLETED DATA LINK TEST.  
 1730 - BF CLEARED TO SURFACE  
 1736 - BF ON SURFACE  
 1750 - BF UNDER TOW BY MV PRIDEJER  
 1830 - DROPPED TOW LINE.  
 - SECURED PROPULSION - ROCKSIDE  
 Paul J. Campbell

Time	Routine	Check
1600	-Check bilges, penetrators and main battery fuse boxes for water ✓ -Cycle MBT and VBT hull valves ✓ -Check hull valves for proper position ✓ -Check LOX tanks for leaks ✓ -Vent Main Ballast Tanks ✓ -Check emergency ballast hydraulic pressure ✓ -Check VBT's for pressure buildup ✓ -Air flask readings (flasks in service) Flask #1 <u>118</u> ; #2 <u>196</u> #3 <u>193</u> ; #4 <u>204</u> #5 <u>183</u> ; #6 <u>76</u> ✓ -Check equipment not in use in Off/Standby position ✓ -Check F.W. valves shut -Record battery readings -Carbon Dioxide % _____ -Oxygen % <u>21.3%</u> -Cabin Temperature <u>80°</u> -Sea water temp. _____ -Cabin Humidity <u>70%</u> -Cabin Pressure <u>1.06</u>	
1700	✓ -Check hydraulic pressure ✓ -Cycle MBT and VBT hull valves	
1800	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
1900	-Is Shot Magnetized? -Check hydraulic pressure -Cycle MBT and VBT hull valves	

Change No. 1  
 20 Feb. 1970

Franklin Underway Log Sheet

	Time	Routine	Check:
Date <u>8 April 70</u>	1200	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> <li>Flask #1 _____; #2 _____;</li> <li>#3 _____; #4 _____;</li> <li>#5 _____; #6 _____</li> <li>-Test emergency ballast alarm</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Vent Main Ballast Tanks</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>	
12-16			
Position: <u>Port of Palm Beach</u>			
Weather: <u>Partly Cloudy</u> <u>Wind 18Kts from NE</u>			
1418 - UNDERWAY			
1440 - UNDER TOW BY MV. PR. VETTER			
<u>Paul Hanfball</u>			
	1300	<ul style="list-style-type: none"> <li>-Check Gyrocompass</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves.</li> </ul>	
	1400	<ul style="list-style-type: none"> <li>-Oxygen % _____</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	1500	<ul style="list-style-type: none"> <li>-Is Shot Magnetized?</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull</li> </ul>	

Change No. 1  
20 Feb. 1970



Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>4/9/70</u>	1200	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Air flask readings (flasks in service)</li> </ul>	
12-16			
Position: <u>1 mile SOUTH BELL CHANNEL BOY</u>			
Weather: <u>PRT. CLOUDY</u>			
<p>1345 - UNDERWAY*</p> <p>1349 - DROPPED TOW LINE</p> <p>1355 - MOVING INTO POSITION TO DIVE</p>		<ul style="list-style-type: none"> <li>Flask #1 _____; #2 _____;</li> <li>#3 _____; #4 _____;</li> <li>#5 _____; #6 _____</li> </ul>	
<p>1425 RFD Complete sounding 30ft.</p> <p>1426 Diving - #65 Munnis, Logan, Kenner, Seeguns, Grogan, Campbell</p>		<ul style="list-style-type: none"> <li>-Test emergency ballast alarm</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Vent Main Ballast Tanks</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea water temp. _____</li> <li>-Cabin Humidity _____</li> <li>-Cabin Pressure _____</li> </ul>	
<p>1436 Bottomed - 30ft. Port light - used power to hold down - flooding VBT'S</p>			
<p>1444 Surfaced - well flood through STS</p>			
<p>1447 Bottomed. Taking photos - Divers of sub + photos from inside sub</p>	1300	<ul style="list-style-type: none"> <li>-Check Gyrocompass</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
<p>1535 Divers Completed - Surfacing</p>	1400	<ul style="list-style-type: none"> <li>-Oxygen % _____</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
<p>1548 - MOVING TO STERN OF M.V. PRIVATEER TO LOAD SHOT</p>	1500	<ul style="list-style-type: none"> <li>-Is Shot Magnetized?</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull</li> </ul>	
<p>1554 - UNDER TOW BY M.V. PRIVATEER</p>			
<p>Paul Campbell</p>			
<p>Arrival at entrance to DK Lucaya at 1200</p>			

Change No. 1  
20 Feb. 1970

Franklin Underway Log Sheet

Dive #66

	Time	Routine	Check:
Date <u>10 April 70</u>	0800	-Replace LiOH panels	
08-12		-Conduct thorough boat inspection	
Position: 1 mile South of entrance Bay to Lucaya, Bahamas		-Cycle MBT and VBT hull valves	
Weather: Calm, Sunny		-Check hull valves for proper position	
1011 - Dropped Tow Line - UNDERWAY		-Check LOX tanks for leaks	
1037 Diving - Dive #66		-Vent Main Ballast Tanks	
1042 Bottomed 11 meters		-Check emergency ballast hydraulic pressure	
Sensors 1, 2, 5, 8		-Check VBT's for pressure buildup	
1100		-Air flask readings (flasks in service)	
PORT VBT		Flask #1 _____; #2 _____;	
Seems to be		#3 _____; #4 _____;	
imperative - won't		#5 _____; #6 _____	
flood		-Check equipment not in use in Off/Standby position	
1133		-Check F.W. valves shut	
Dr. Valid 750 lbs of shot -		-Record battery readings	
They wanted us to move		-Carbon Dioxide % _____	
200 ft. fwd & then		-Oxygen % _____	
changed their minds		-Sea Water Temp. _____	
L. J. Kaye.		-Cabin Humidity _____	
		-Cabin Pressure _____	
		-LOX pressure _____	
		-Fwd _____ Aft _____	
		-Record F.W. & LOX tank levels	
	0900	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1000	-Oxygen % _____	
		-Check hydraulic pressure	
	1100	-Cycle MBT and VBT hull valves	
		-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

NOTE: If motors have been idle, meggar before using.

Change No. 1  
20 February 1970

Franklin Underway Log Sheet

	Time	Routine	Check
12-16 <del>00-00</del>	Date <u>10 April 70</u>		
Position: <u>1 mi. South of Entrance buoy to Lucaya Channel</u>			
Weather: <u>calm, sunny</u>			
1230 - BF ON BOTTOM AT 11 METERS Divers taking photos	0000	-Check bilges, penetrators and main battery fuse boxes for water C -Cycle MBT and VBT hull valves C -Check hull valves for proper position C -Check LOX tanks for leaks V -Vent Main Ballast Tanks A2 -Check emergency ballast hydraulic pressure L -Check VBT's for pressure buildup L -Record air flask readings: Flask #1 <u>186</u> ; #2 <u>193</u> ; #3 <u>199</u> ; #4 <u>203</u> ; #5 <u>107</u> ; #6 <u>142</u>	
1235 Manuevering on 240 working DK <sup>run</sup> two way between coral leads.			
1240 Stopped, Toilet shut dr. bled 1200 105			
1415 Coming off The kitten & heading 215° for underway photo.			
1425 Surfaced, #1 Vent Leaking, Can't open the hatch			
1430 all OK - hatch opened, Vent shut.			
1440 - VENT ON TOP OF BUBBLE MISSING.	0100	-Check hydraulic pressure -Cycle MBT and VBT hull valves	
1535 - UNDER TOW BY PRIVATEER W. J. Ryan	0200	-Oxygen % _____ -Check hydraulic pressure -Cycle MBT and VBT hull valves	
	0300	-Is Shot Magnetized? -Check hydraulic pressure -Cycle MBT and VBT hull valves	

173.17  
183.49  
163.4c  
162.4c  
165.4i  
136.13

Franklin Underway Log Sheet

	Time	Routine	Check
<p>16-20 <del>08-12</del></p> <p>Date <u>10 April 70</u></p> <p>Position: <u>1 mi. East of Lucaya</u></p> <p>Weather: <u>Calm, Sunny</u></p> <p>1530 preparing to dive - Dive #67 Crew - Greg, Sorensen, Key, Dan Woodman, Bob Fandley, Frank Reed, George Lotwin, Chuck Hepp, Ben Rose, Dick Clark, Chuck Burns, Dick Winait, John Carpenter</p> <p>1642 Diving - Dive #67</p> <p>1658 Bottom in Site - 70 ft. alt. Depth 320 m</p> <p>1704 on bottom - very steep slope - low touching only 340 m Lost both strobes</p> <p>1723 335 m following slope by trimming light</p> <p>1735 70° slope 280 m DEPTH</p> <p>1747 230 m depth. Basket hit bottom when boat 8 ft off bottom - equal steep bottom</p> <p>1551 Slope - 80° 215 meters South Crew 23 current</p>	<p>0800</p> <p>0900</p> <p>1000</p> <p>1100</p>	<p>-Replace LiOH panels</p> <p>-Conduct thorough boat inspection</p> <p>-Cycle MBT and VBT hull valves</p> <p>-Check hull valves for proper position</p> <p>-Check LOX tanks for leaks</p> <p>-Vent Main Ballast Tanks</p> <p>-Check emergency ballast hydraulic pressure</p> <p>-Check VBT's for pressure buildup</p> <p>-Air flask readings (flasks in service)</p> <p>Flask #1 _____; #2 _____;</p> <p>#3 _____; #4 _____;</p> <p>#5 _____; #6 _____</p> <p>-Check equipment not in use in Off/Standby position</p> <p>-Check F.W. valves shut</p> <p>-Record battery readings</p> <p>-Carbon Dioxide % _____</p> <p>-Oxygen % _____</p> <p>-Sea Water Temp. _____</p> <p>-Cabin Humidity _____</p> <p>-Cabin Pressure _____</p> <p>-LOX pressure _____</p> <p>-Fwd _____ Aft _____</p> <p>-Record F.W. &amp; LOX tank levels</p> <p>-Check hydraulic pressure</p> <p>-Cycle MBT and VBT hull valves</p> <p>-Oxygen % _____</p> <p>-Check hydraulic pressure</p> <p>-Cycle MBT and VBT hull valves</p> <p>-Is Shot Magnetized?</p> <p>-Check hydraulic pressure</p> <p>-Cycle MBT and VBT hull valves</p> <p>NOTE: If motors have been idle, meggar before using.</p>	

- 1800 AT 190m slope sed
- 1812 Under an overhang - backing out  
cave + shear cliff.  
Ascending to surface. Red for  
radio antenna 90 meters
- 1824 total shot drilled - 3600 lbs
- 1825 Surf out. #3 SW sensor still on  
also #2
- 1830 CONN TOW PRIORITEER U/W FOR NIGHT  
ANCHORAGE NEAR LUCAYA

W. K. J.

Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>4.11.70</u>	1200	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>✓ -Check hull valves for proper position</li> <li>✓ -Check LOX tanks for leaks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>✓ -Check VBT's for pressure buildup</li> <li>✓ -Air flask readings (flasks in service)</li> <li>Flask #1 <u>1900</u> ; #2 <u>120</u> ;</li> <li>#3 <u>2,000</u> ; #4 <u>90</u> ;</li> <li>#5 <u>90</u> ; #6 <u>95</u></li> <li>✓ -Test emergency ballast alarm</li> <li>-Check equipment not in use in Off/Standby position</li> <li>✓ -Vent Main Ballast Tanks</li> <li>-Check F.W. valves shut</li> <li>-Record battery readings</li> <li>-Carbon Dioxide % _____</li> <li>-Oxygen % <u>21.0</u></li> <li>-Cabin Temperature <u>80</u></li> <li>-Sea water temp. <u>30</u></li> <li>-Cabin Humidity <u>73</u></li> <li>-Cabin Pressure <u>1.5</u></li> </ul>	✓
12-16			
Position: <u>LUCAYA</u>			
Weather:			
1305 CAST TOW FROM PTR ANCHORAGE			
1315 REF CHECKS GO. Dive #68			
1340 10 SPC BOTH SHOT			
10 SPC " "			
1345 10 SPC			
10 SPC			
10 SPC			
1400 COMMENCED TRANSIT 210° PMIC			
1412 CROSSED LEDGE COMING TO 5 METERS			
1430 EMAGNETIZED SHOT			
1504 355 PME BOTTOMED 9 M. STA FLOODING VBT			
1525 OFF BOTTOM ON 355			
1530 ALL STOP ON BOTTOM			
1535 REV CA 150 RJW TO SIGNAL DIVERS ON DECK			
1640 - CLEARED TO SURFACE			
1644 - BF ON SURFACE			
1700 - UNDERTOW BY MUPRI VETECR			
<i>J.M. Paul</i>			
	1300	<ul style="list-style-type: none"> <li>-Check Gyrocompass ✓</li> <li>-Check hydraulic pressure 140</li> <li>✓ -Cycle MBT and VBT hull valves</li> </ul>	
	1400	<ul style="list-style-type: none"> <li>-Oxygen % <u>21.0</u></li> <li>-Check hydraulic pressure 140</li> <li>✓ -Cycle MBT and VBT hull valves</li> </ul>	
	1500	<ul style="list-style-type: none"> <li>-Is Shot Magnetized? <u>NE</u></li> <li>-Check hydraulic pressure 140</li> <li>✓ -Cycle MBT and VBT hull</li> </ul>	

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>A/12/70</u>	0400	-Check bilges, penetrators and main battery fuse boxes for water	
04-08		-Cycle MBT and VBT hull valves	
Position:		-Check hull valves for proper position	
Weather:		-Check LOX tanks for leaks	
0545 - BK HARD TO GROUND		-Vent Main Ballast Tanks	
0546 - STARTED PROPUSSION		-Check emergency ballast hydraulic pressure	
0830 - LOST 171-3 BATTERY		-Check VBT's for pressure buildup	
24.8 VOLTS ON B1-1		-Record air flask readings (flasks in service)	
<p><i>Incomplete - see Dive report for Dives 65-68 and separate report concerning grounding WTK</i></p>		Flask #1 _____; #2 _____;	
		#3 _____; #4 _____;	
		#5 _____; #6 _____	
		-Check equipment not in use in Off/Standby position	
		-Record battery readings	
		-Check F.W. valves shut	
		-Carbon Dioxide% _____	
		-Oxygen % _____	
		-Cabin Temperature _____	
		-Sea Water Temp. _____	
		-Cabin Pressure _____	
		-Cabin Humidity _____	
	0500	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	0600	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	0700	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

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Franklin Underway Log Sheet

	Time	Routine	Check
<p>12-16 <del>04-08</del></p> <p>Date <u>14 Apr. 70</u></p> <p>Position: <u>Freeport Harbor -</u> <u>Bahamas</u></p> <p>Weather:</p> <p>1230 Underway under tow by Privateer WJ/Kay.</p>	0400	<ul style="list-style-type: none"> <li>-Check bilges, penetrators and main battery fuse boxes for water</li> <li>-Cycle MBT and VBT hull valves</li> <li>-Check hull valves for proper position</li> <li>-Check LOX tanks for leaks</li> <li>-Vent Main Ballast Tanks</li> <li>-Check emergency ballast hydraulic pressure</li> <li>-Check VBT's for pressure buildup</li> <li>-Record air flask readings (flasks in service)</li> <li>Flask #1 _____; #2 _____;</li> <li>#3 _____; #4 _____;</li> <li>#5 _____; #6 _____;</li> <li>-Check equipment not in use in Off/Standby position</li> <li>-Record battery readings</li> <li>-Check F.W. valves shut</li> <li>-Carbon Dioxide% _____</li> <li>-Oxygen % _____</li> <li>-Cabin Temperature _____</li> <li>-Sea Water Temp. _____</li> <li>-Cabin Pressure _____</li> <li>-Cabin Humidity _____</li> </ul>	
	0500	<ul style="list-style-type: none"> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	0600	<ul style="list-style-type: none"> <li>-Oxygen % _____</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	
	0700	<ul style="list-style-type: none"> <li>-Is Shot Magnetized?</li> <li>-Check hydraulic pressure</li> <li>-Cycle MBT and VBT hull valves</li> </ul>	

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Franklin Underway Log Sheet

	Time	Routine	Check
Date <u>15 Apr. 70</u>	0800	-Replace LiOH panels	
08-12		-Conduct thorough boat inspection	
Position:		-Cycle MBT and VBT hull valves	
Weather: <u>Clear, Calm</u>		-Check hull valves for proper position	
0930 <u>Moores, Port of Palm Beach,</u>		-Check LOX tanks for leaks	
		-Vent Main Ballast Tanks	
		-Check emergency ballast hydraulic pressure	
		-Check VBT's for pressure buildup	
		-Air flask readings (flasks in service)	
		Flask #1 _____; #2 _____;	
		#3 _____; #4 _____;	
		#5 _____; #6 _____	
		-Check equipment not in use in Off/Standby position	
		-Check F.W. valves shut	
		-Record battery readings	
		-Carbon Dioxide % _____	
		-Oxygen % _____	
		-Sea Water Temp. _____	
		-Cabin Humidity _____	
		-Cabin Pressure _____	
		-LOX pressure _____	
		-Fwd _____ Aft _____	
		-Record F.W. & LOX tank levels	
	0900	-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1000	-Oxygen % _____	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	
	1100	-Is Shot Magnetized?	
		-Check hydraulic pressure	
		-Cycle MBT and VBT hull valves	

*W. H. H. H.*

NOTE: If motors have been idle, meggar before using.

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