

First District Search and Rescue

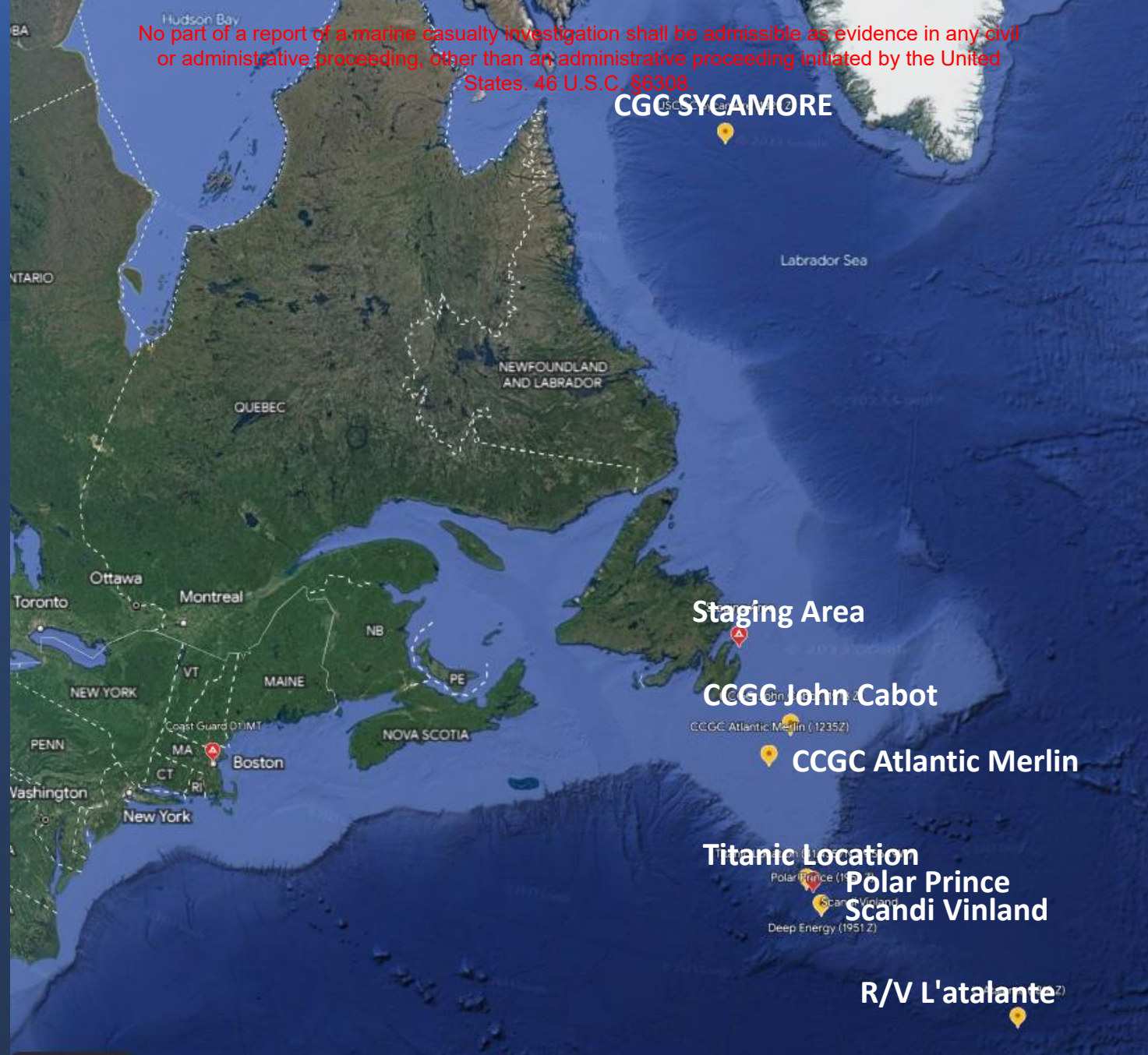
Submersible TITAN

R/V POLAR PRINCE

20 June 2023 updated 1900



No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308



TITAN SUBMERSIBLE



Seating	5 persons (1 pilot + 4 crew)
Depth	4,000 meters (13,123 feet)
Dimensions	670 cm x 280 cm x 250 cm (22 ft x 9.2 ft x 8.3 ft)
Payload	685 kg (1,510 lbs)
Weight	9,525 kg (21,000 lbs)
Speed	3 knots
Propulsion	Four Innerspace electric thrusters: 2 vertical, 2 horizontal.
Life Support	96 hours for a crew of 5
Navigation	Teledyne BlueView 2D sonar, Teledyne Doppler Velocity Log (DVL), INS/USBL
Lighting	4 Deep Sea Power & Lights LED Sealites, 40,000 lumens total output
Cameras	External: SubC Imaging iCam Rayfin, 4K camera, 3 Axis Cameras
Other	2G Robotics Dynamic Underwater Laser Scanner (ULS-500 PRO)

Initial Timeline

- 18 2140Z JUN 23: RCC Boston received notification of a 21FT submarine overdue from the Canadian R/V POLAR PRINCE 900NM east of Cape Cod, MA. The submarine submerged at 1200Z 18JUN23 with 05 POB (2 US, 3 UK citizens) intending to view the wreck of the TITANIC. The R/V POLAR PRINCE lost communications with the submarine approximately one hour and forty-five minutes into the voyage. The submarine has life support for a crew of 05 POB for 96hrs: approximately 0708 EST 22JUN23.
- Current Search Efforts:
 - Canadian P-3 completed search at 1500lcl
 - An ANG 106 C-130 arrived O/S at 1600lcl and will search until 2100lcl
 - DEEP ENERGY continues to search with ROV IVO LKP.
 - Second Canadian P-3 arrived O/S at 1515lcl and will search until 2000 lcl.
 - L'ATALANTE plans to be O/S tomorrow morning with ROV and cable available
 - CCGC JOHN CABOT is enroute with ETA of 2130 lcl for sonar searches.
 - CCGC SKANDI VINLAND is enroute to be OS with an ROV at 1700 lcl.
- R/V DEEP ENERGY responded to ISMERLO message and reported an ETA of 20 0300Z JUN with 02 ROVs and 03 ROV pilots.

Assets Arriving / On Scene (Updated 1631, 20JUN23)

Vessels / Air Assets	ETA (EST)	Capabilities / Purpose
Deep Energy	On Scene	Cable laying vessel with ROV, currently searching
Polar Prince	On Scene	Mothership to Titan
Scandi Vinland	On Scene	Lift Capability
CCGC John Cabot (Canadian)	On Scene	Advanced Sonar down to 11k meters
L'Atalante (France)	Arriving 21JUN23 AM	ROV with 6k meter capability / 4k Camera
CCGC Atlantic Merlin	Arriving 21JUN23 0100LCL	Lift capability
HMCS Glace Bay	Arriving 21JUN23 1800LCL	Hyperbaric Chamber
CCGS Terry Fox	In port St. John's	8 Berths Available, Medical Team
CCGS Ann Harvey	In port St. John's	14 Berths Available, Flight Deck
Horizon Arctic	In port St. John's	Bringing ROVs to site
USCGC Sycamore	TBD	SAR

ROV and Lift Capability by Vessel

ROV / Lift Capability at Site or Soon to Arrive					
Vessel Name / Lift Capacity	ROV Name	Depth Rating of ROV	Umbilical Length	Location	ETA On Scene
Deep Energy - 3300 M	Schilling Robotics Work Class	3000m	3600m	On Scene	On Scene
Horizon Artic	Odysseus 6k	6000m	6000m	Entering St Johns	22JUN23 - 1200
L'Avalante / 6440 with support from other ROV Vessel	Victor 6000	6000m	6000m	Enroute	21-Jun-23
Skandi Vinland	TBD	TBD	4000m	Enroute	20Jun23 - 1200
Atlantic Merlin / 4000m tow wire	NA - able to assist L'Avalante	NA	NA	Enroute	20Jun23 - 1200
TBD / 6000m Heave Compensated	FADOSS	TBD	TBD	Unknown	Unknown

Assets Utilized and On-Scene



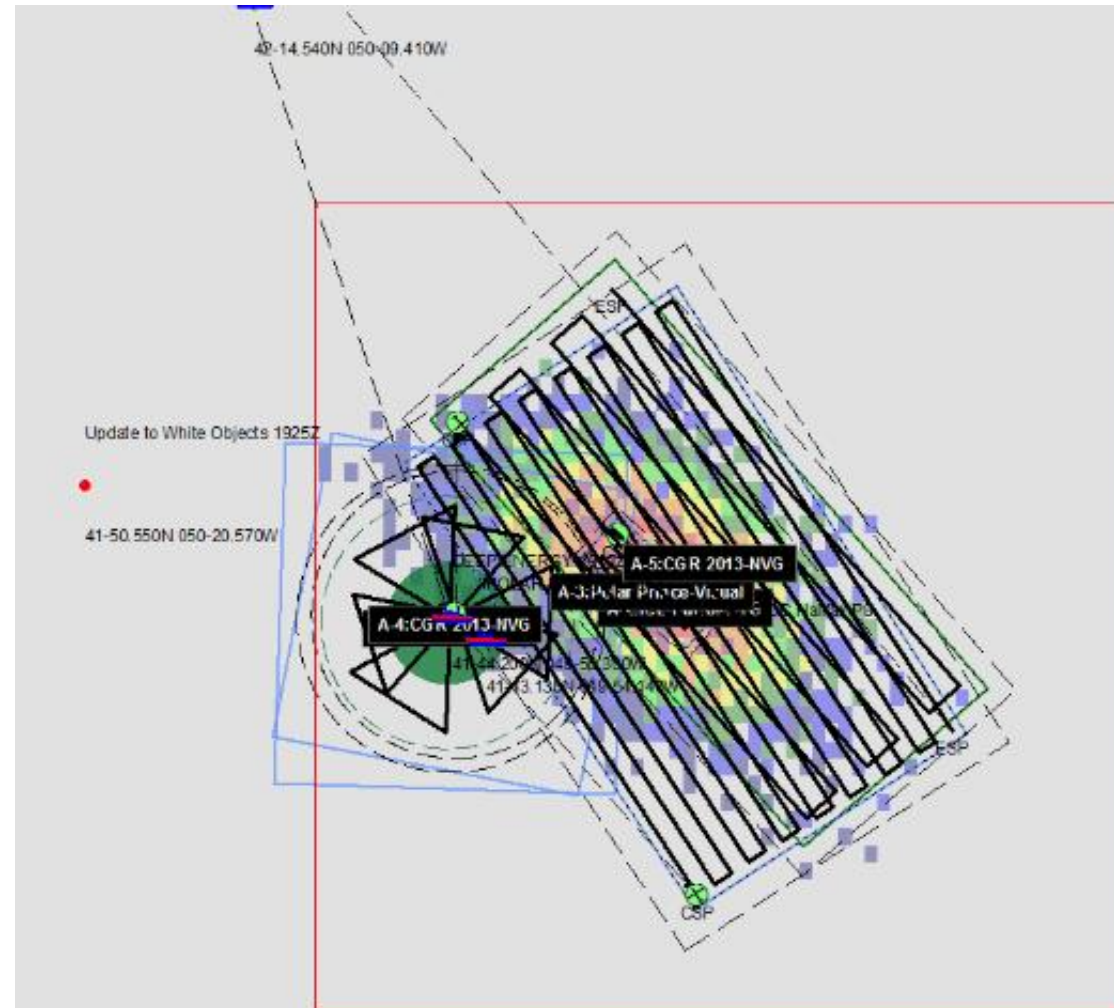
Assets En Route



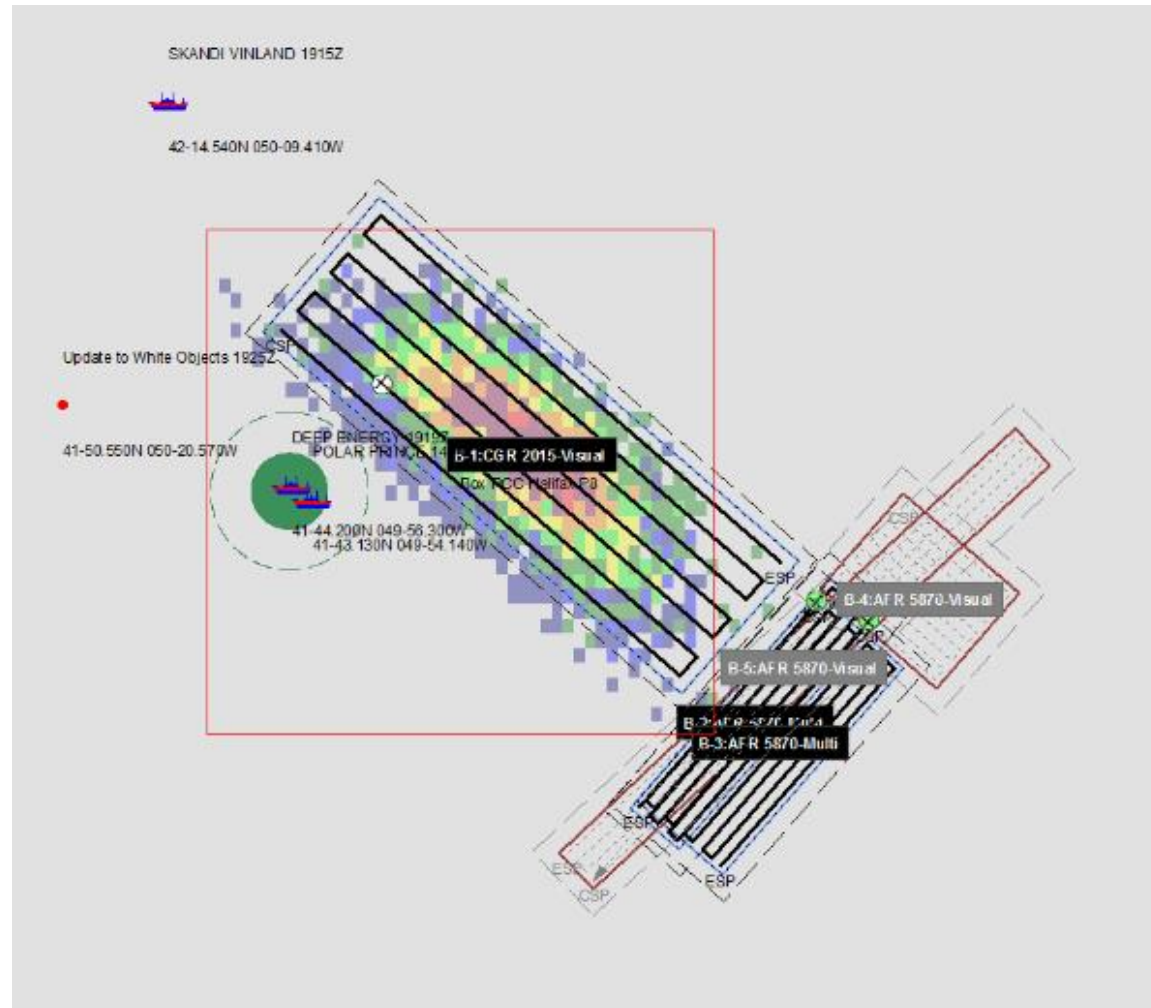
On-scene conditions

Date	20-Jun-23	20-Jun-23	21-Jun-23	21-Jun-23	21-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23
Time	1500	2000	0100	0800	1700	0100	1400	2200
Wind	11-14mph	19-21mph	20-21mph	22-24mph	17-19mph	14-15mph	17-19mph	15-17mph
Gusts	16-17mph	22-24mph	22-24mph	29-30mph	29-31mph	20-22mph	22-24mph	22-25mph
Cloud Coverage	50-60%	70-80%	90-100%	90-100%	70-80%	50-70%	0-10%	20-40%
Sea State	4-5ft	4-5ft	5-6ft	6-7ft	6-8ft	3-4ft	3-4ft	4-5ft
Air Temp	52	50	49	50	48	47	50	52

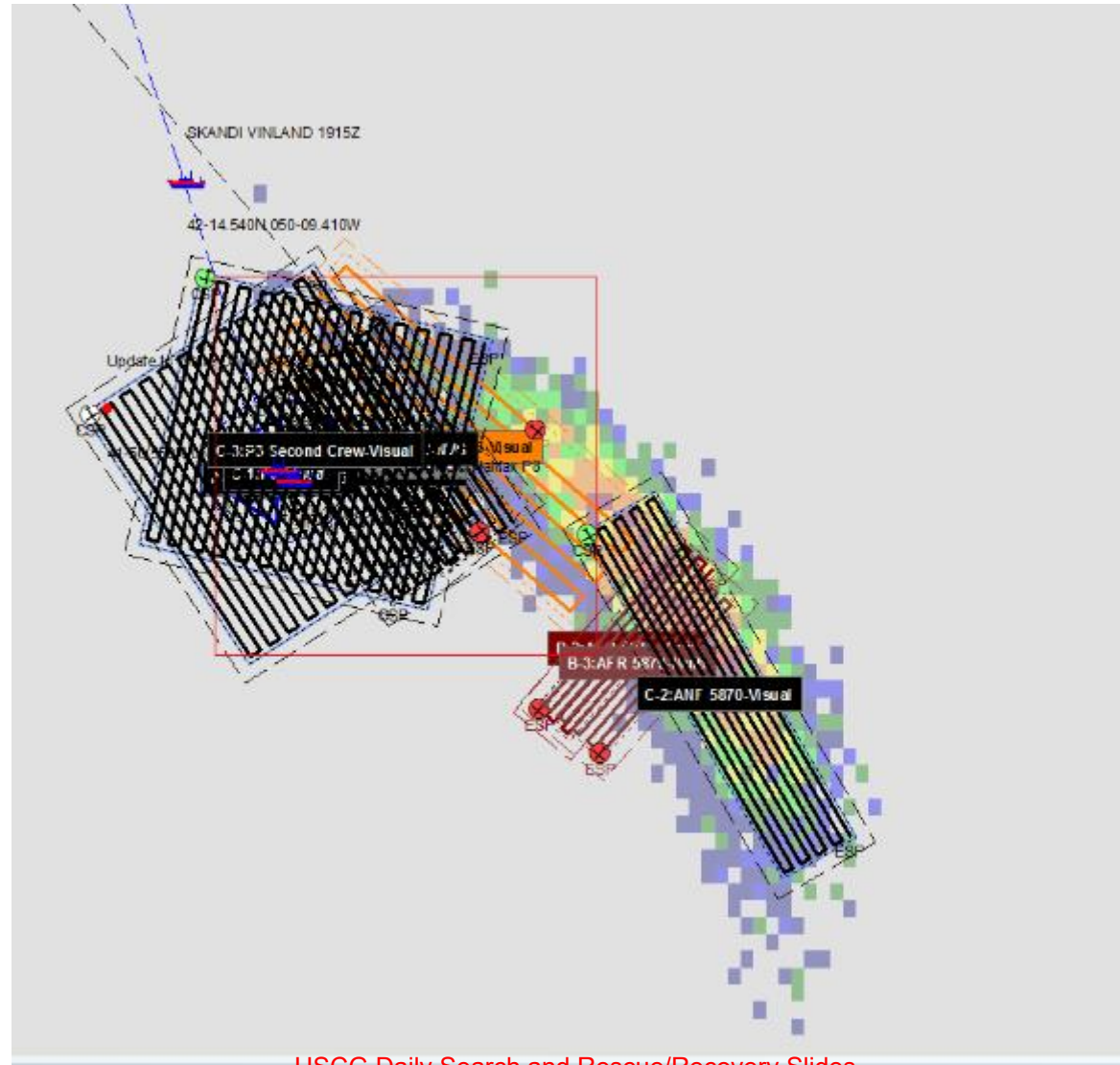
Searches conducted to date: Search A



Searches conducted to date: Search B



Searches conducted to date: Search C





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TITAN Search and Rescue



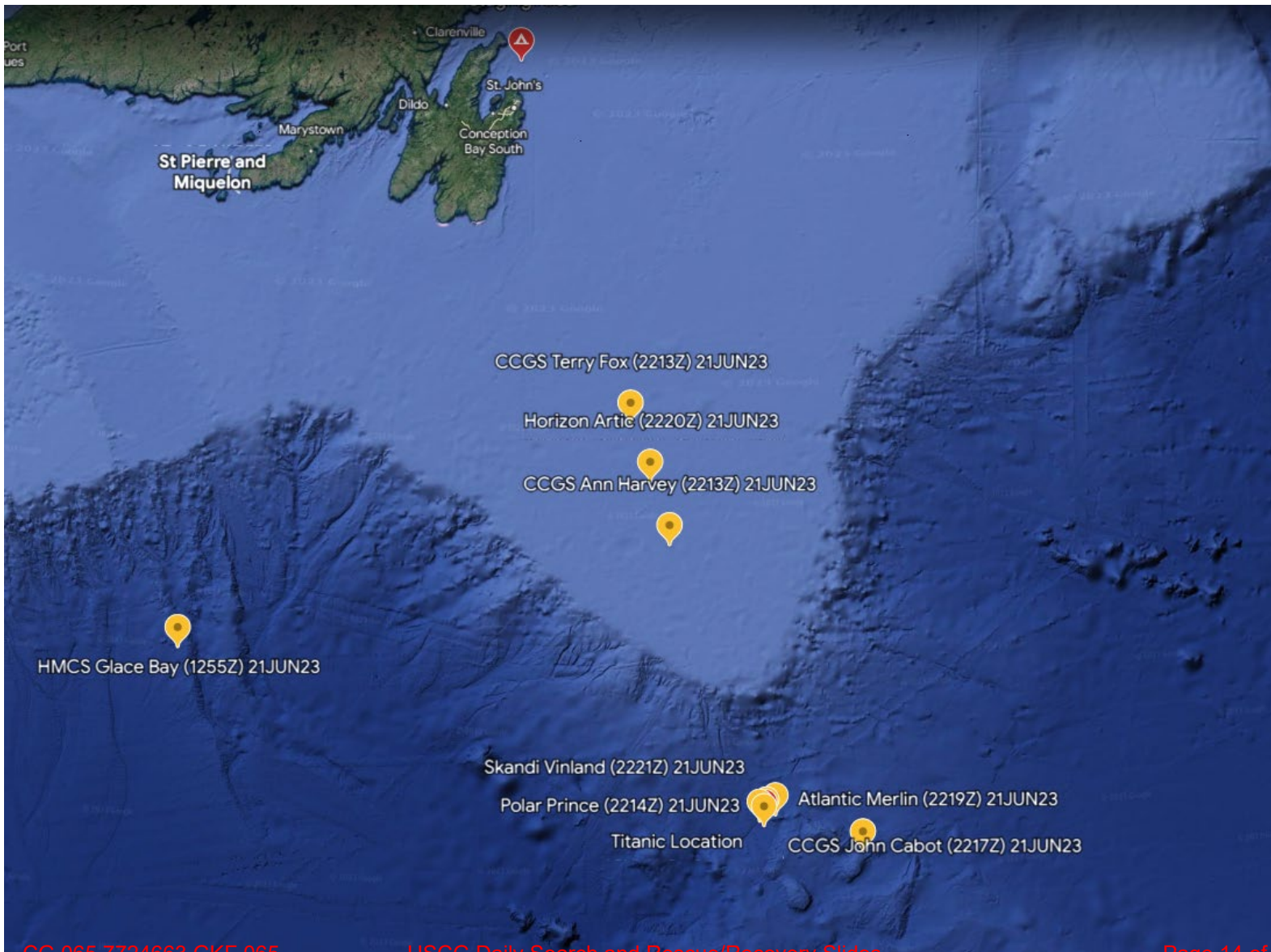
Situation Brief: 21Jun / 1900 (EST)



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Operational Area





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Significant Updates

- TITAN has an estimated 12 hours remaining of life support
- On-Scene Coordinator shifted to CCGS JOHN CABOT
- SUPSALV, WHOI, COMSUBLANT Liaisons O/S at ICP
- 02 Coast Guard Liaison Officers deployed to St. John's with 01 additional CG LNO being deployed to St. John's:
 - D1 EPLO: CCGS Ann Harvey
 - MSC SERT: St John's staging area
- Unified Command conducted press brief at 1300



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Surface Assets

Type	Vessel	ETA (EST)	Capabilities / Tasking	Current Operations
Subsurface 1	Deep Energy	On Scene	ROV	Searching with ROV
Subsurface 2	Skandi Vinland	On Scene	ROV/Lift Capability	Searching with ROV
Subsurface 3	L'Atalante	Rendezvousing with CCGS Ann Harvey at 0400Z 22JUN23 to receive for ROV operators	ROV, 6k meter capability with 4k camera	Enroute
Subsurface 4	Horizon Arctic	Arriving 0400Z 22JUN23	ROV	Enroute
Subsurface 5	Atlantic Merlin	On Scene	Lift Capability	Standby to Assist
Subsurface 6	King Fisher	Pierside in St John's	ROV	Preparation to load FADOSS
Surface Search A	CCGS John Cabot	On Scene	Advanced sonar to 11k Meters	Subsurface Sonar Search / On Scene Coordinator
Surface Search B	USCGC Sycamore	Arriving 2200Z 24JUN23	SAR	Enroute
Command Control	Polar Prince	On Scene	Mothership to Titan	Surface Search
Command Control	CCGS Ann Harvey	Rendezvousing with L'Atalante at 0400Z 22JUN23 to transfer ROV operators	Flight Deck with Bell 429 helo	Enroute
Command Control	CCGS Terry Fox	Arriving 1530Z 22JUN23	Medical Team, USN SUPSALV Rep, CG Liaison Officer	Enroute
Command Control	HMCS Glace Bay	Arriving 1200Z 22JUN23	Hyperbaric Chamber	Enroute



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ROV/AUV/Lift Capable Assets



Vessel Name	Lift Capacity	ROV/AUV Name	Depth Rating	Umbilical Rating	Location	ETA on Scene
Deep Energy	4000m	Schilling Robotics Work Class	3000m	3600m	On Scene	On Scene
Horizon Arctic	N/A	Odysseus 6k	6000m	6000m	Enroute	0730Z 22JUN23
L'Alalante	6440m w/ support from other ROV vsl	Victor 6000	6000m	6000m	Enroute	Rendezvousing with CGCS Ann Harvey at 0400Z 22JUN23 for ROV personnel transfer*
Skandi Vinland	3000m	Schilling Robotics Work Class	3000m	3000m	On Scene	On Scene
Atlantic Merlin	4000m tow wire	N/A	N/A	N/A	On Scene	On Scene
King Fisher	(FADOSS) 6000m heave compensated lifting	N/A (No ROV Capability)	6000m	N/A	Enroute to St. John's	ETA TBD
Vessel of Opportunity TBD	N/A	Magellan	6000m	6000m	Channel Island TRANSCOM Flight Pending	TBD
AUV Halifax	N/A	AUV Halifax	5000-6000m	Capabilities: - 400 Mhz max camera - 8mega pixle camera - 3kts max speed	Enroute to St. Johns	ETA Afternoon 22JUN23



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Aviation Assets



Asset Type	Flights (21Jun)	Completed Sorties (Total)
USCG C130	21JUN23 1300Z-1900Z	5
Air National Guard C130	21JUN23 1900Z-2100Z	4
Canadian P3 Aurora	Continuous coverage until 1930Z tomorrow	5
Canadian C130	21JUN23 1600Z-2000Z	1



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3-Day Weather Outlook

On-Scene Weather

On-Scene Weather									
Date	21-Jun-23			22-Jun-23			23-Jun-23		
Time	1200	1800	2300	0600	1200	1800	0600	1200	1800
Air Temp	50°F	50°F	50°F	46°F	54°F	56°F	57°F	58°F	58°F
Wind	24mph	25mph	17mph	15mph	17mph	21mph	19mph	18mph	14mph
Wind Gusts	35mph	36mph	25mph	19mph	25mph	27mph	25mph	23mph	18mph
Visibility	11sm	29sm	27sm	20sm	20sm	13sm	9sm	28sm	30sm
Sea State	6-7 ft	7-8 ft	5-6 ft	4-5 ft	3-4 ft	4-5 ft	4-5 ft	4-5 ft	3-4 ft



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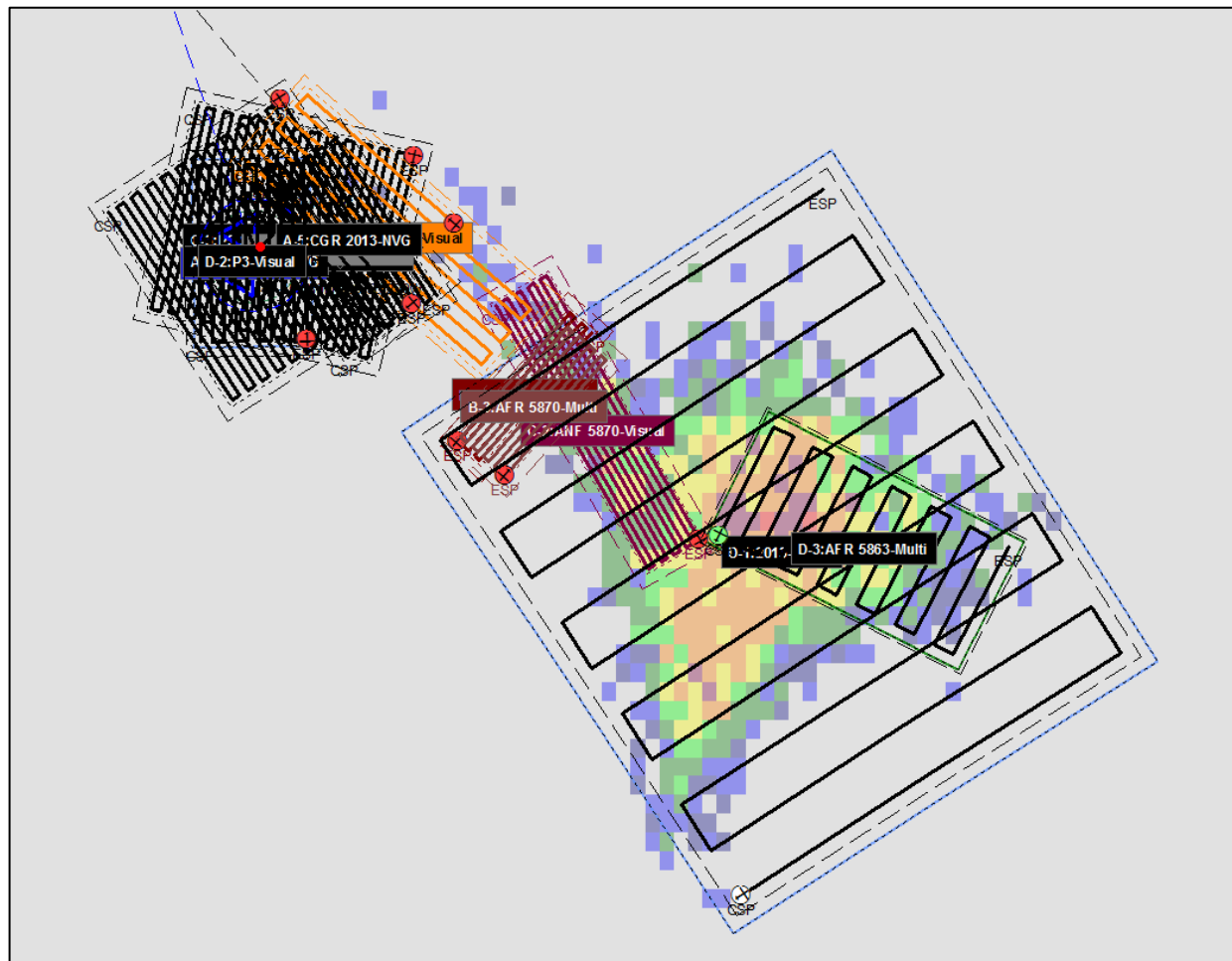
States, 46 U.S.C. §6308.

Search Status



Search Information:

- Unified Command Agencies: USCG, USN, POLAR PRINCE (OceanGate), Canada (CG, JRCC, MCC)
- # of Sorties (CG & OGA): 15
- # of Surface Assets Used: 11
- # of Subsurface Assets: 5
- Air Assets: 4 different Fixed Wing Asset Types (USCG C130, ANG C130, Canadian P3 & C130) Totaling 15 sorties.
- SAROPS Drifts Completed: A,B,C
- Square NMs searched: 11,126 SQNM





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Incident Photos

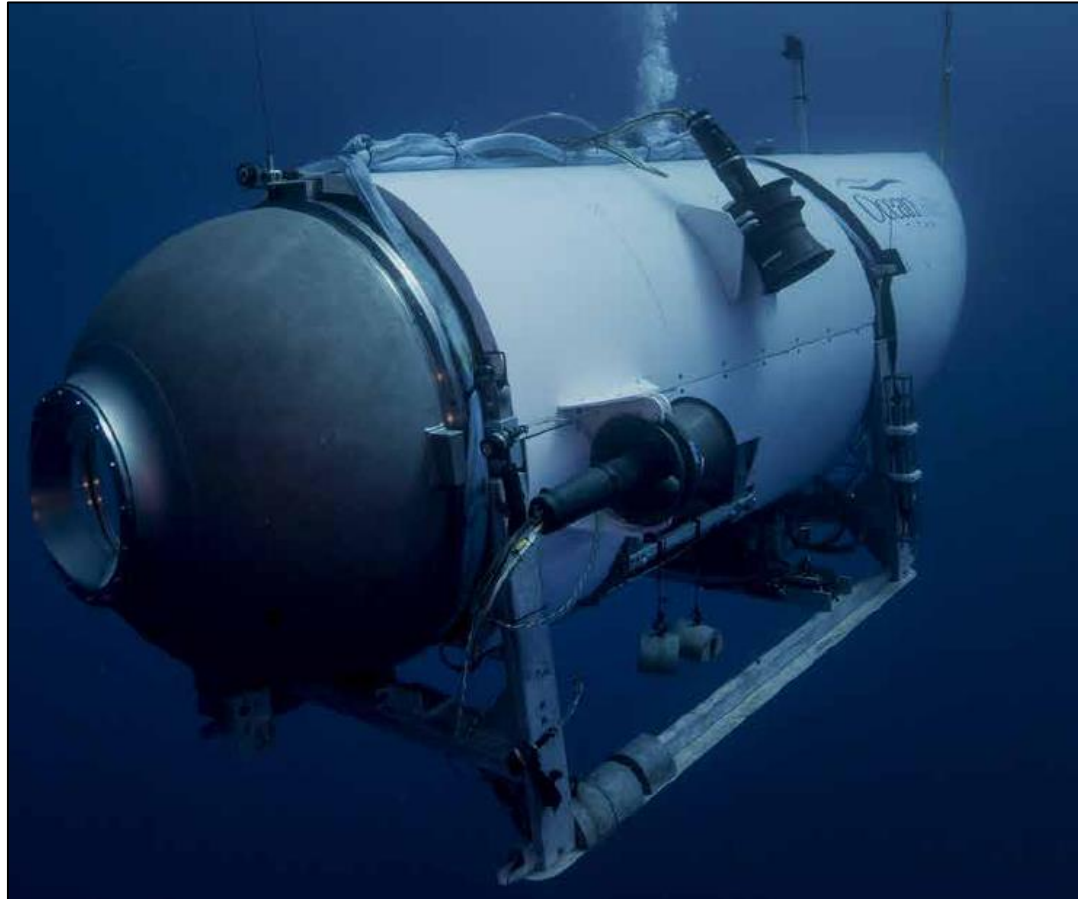




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TITAN Recovery



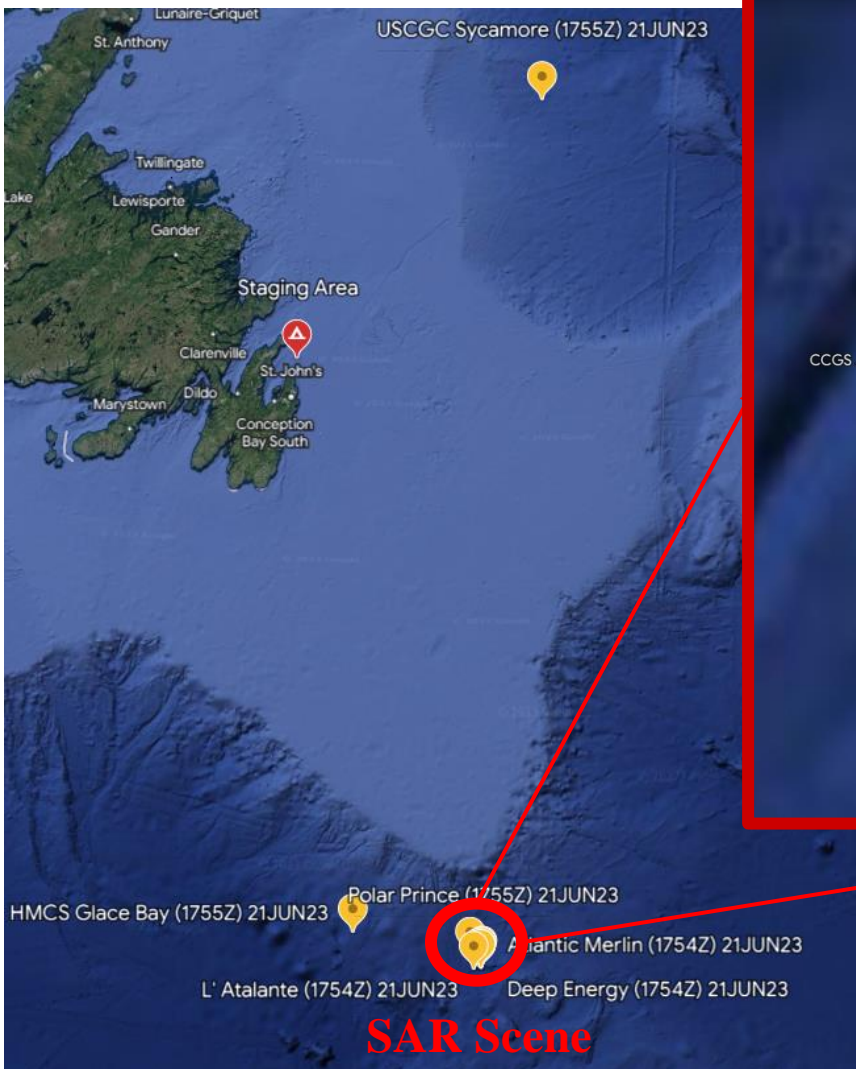
Situation Brief: 22Jun / 1900 (EST)



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Operational Area





Significant Updates

- At 1210Z the Pelagic Research Services 6000m ROV identified the TITAN Submersible's tail piece.
 - At 1230Z the ROV came across a debris field consisting of the forward cone.
 - At 1415Z the ROV came across a second debris field with the aft portion of the cone
 - These combined recoveries lead to the conclusive evidence of a catastrophic loss of the submarine.
- At 2000Z UC ordered the demobilization of POLAR PRINCE, SKANDI VINLAND, DEEP ENERGY, and the ATLANTIC MARLIN.
 - UC keeping the ARCTIC HORIZON and L'ATALANTE on scene for continued mapping of debris field
 - UC keeping CCGS JON CABOT on scene to retain OSC until USCGC SYCAMORE arrives.



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Surface Assets



Type	Vessel	ETA	Capabilities / Tasking	Current Operations
Subsurface 3	L'Atalante	On Scene	ROV (6000m)	Mapping Debris Field
Subsurface 4	Horizon Arctic	On Scene	ROV (6000m)	Mapping Debris Field
Surface Search	CCGS John Cabot	On Scene	On-Scene Coordinator Advanced sonar to 11k Meters	On Scene Coordinator
Surface Search	USCGC Sycamore	Arriving 2200Z 24JUN23	Recovery/Salvage	Enroute
Subsurface	Deep Energy	N/A	ROV	Returning to Home Port
Subsurface	Skandi Vinland	N/A	ROV/Lift Capability	Returning to Home Port
Subsurface	Atlantic Merlin	N/A	Lift Capability	Returning to Home Port
Command Control	Polar Prince	N/A	Mothership to Titan	Returning to Home Port
Command Control	CCGS Ann Harvey	N/A	Flight Deck with Bell 429 helo	Returning to Home Port
Command Control	CCGS Terry Fox	N/A	N/A	Returning to Home Port
Command Control	HMCS Glace Bay	N/A	Hyperbaric Chamber and Medical Team	Returning to Home Port



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ROV/AUV/Lift Capable Assets



Vessel Name	Lift Capacity	ROV/AUV Name	Depth Rating	Umbilical Rating	Location	ETA on Scene
Deep Energy	4000m	Schilling Robotics Work Class	3000m	3600m	On Scene	On Scene
Horizon Arctic	N/A	Pelagic	6000m	6000m	On Scene investigating debris field	On Scene
L'Alalante	6440m w/ support from other ROV vsl	Victor 6000	6000m	6000m	On Scene investigating debris field	On Scene
Skandi Vinland	3000m	Schilling Robotics Work Class	3000m	3000m	On Scene Searching	On Scene
Atlantic Merlin	4000m tow wire	N/A	N/A	N/A	On Scene; standby to assist	On Scene
Vessel of Opportunity TBD	(FADOSS) 6000m heave compensated lifting	N/A (No ROV Capability)	6000m	N/A	At staging area in St. John's	ETA TBD
Vessel of Opportunity TBD	N/A	Magellan	6000m	6000m	Enroute to St. Johns	TRANSCOM C17 Flight Times: 1845Z 2210Z
AUV Halifax	N/A	AUV Halifax	5000-6000m	Capabilities: - 400 Mhz max camera - 8mega pixle camera - 3kts max speed	Enroute to St. Johns	ETA Afternoon 22JUN23



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Aviation Assets

Asset Type	Flights (22Jun)	Completed Sorties (Total)
USCG C130	No additional scheduled flight	7
Air National Guard C130	No scheduled flights today	5
Canadian P3 Aurora	No additional scheduled flight	7
Canadian C130	No scheduled flights today	2



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3-Day Weather Outlook

On-Scene Weather

On-Scene Weather									
Date	22-Jun-23			23-Jun-23			24-Jun-23		
Time	0600	1200	1800	0600	1200	1800	0600	1200	1800
Air Temp	50°F	55°F	58°F	58°F	58°F	58°F	58°F	60°F	62°F
Wind	14mph	20mph	21mph	19mph	18mph	15mph	12mph	9mph	9mph
Wind Gusts	19mph	25mph	30mph	25mph	23mph	21mph	16mph	11mph	11mph
Visibility	20sm	21sm	19sm	19sm	19sm	19sm	15sm	16sm	5sm
Sea State	4-5 ft	3-4 ft	4-5 ft	4-5 ft	4-5 ft	3-4 ft	3-4 ft	3 ft	3 ft



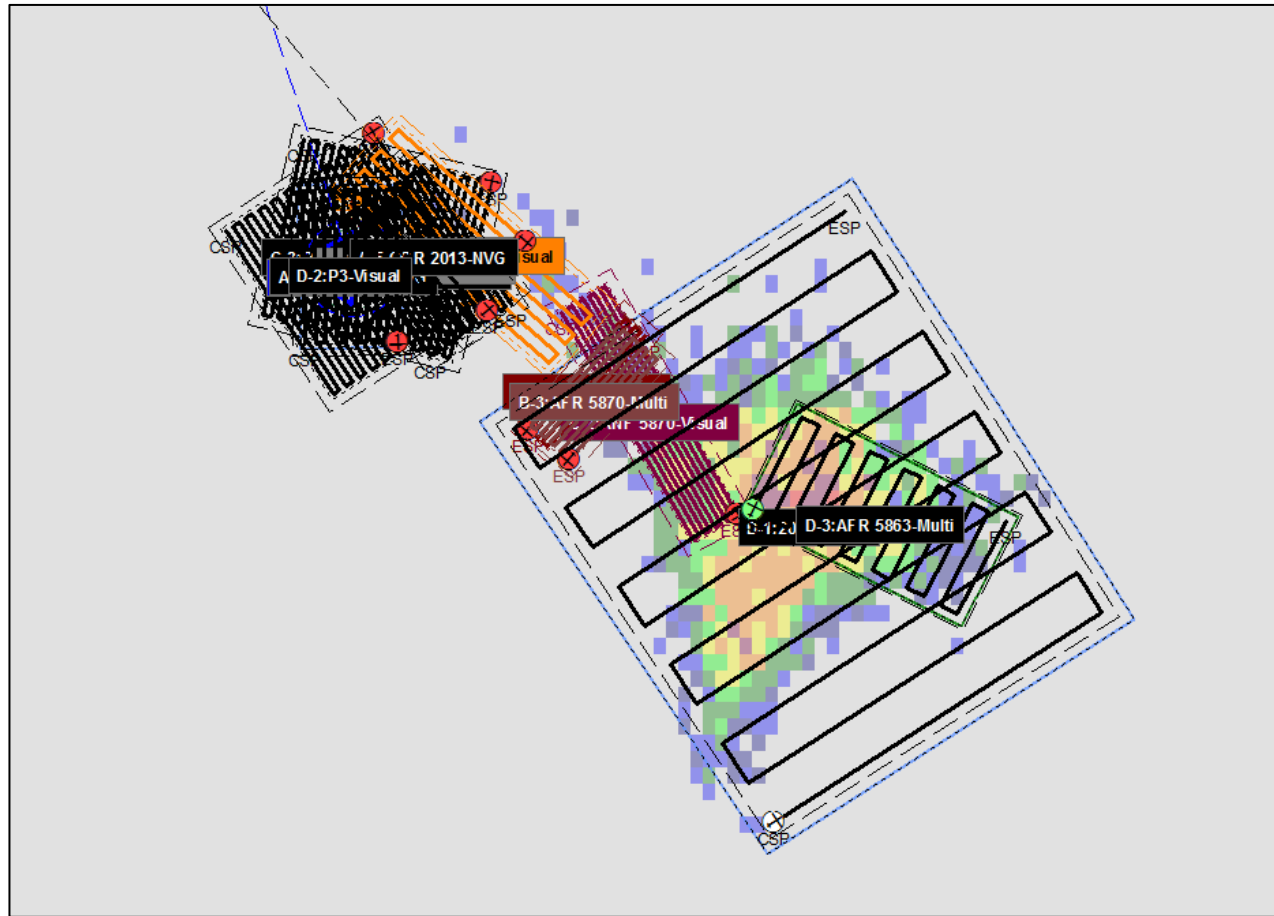
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Search Status



Search Information:

- Unified Command Agencies: USCG, USN, POLAR PRINCE (OceanGate), Canada (CG, JRCC, MCC)
- # of Sorties (CG & OGA): 21
- # of Surface Assets Used: 11
- # of Subsurface Assets: 5
- Air Assets: 4 different Fixed Wing Asset Types (USCG C130, ANG C130, Canadian P3 & C130) Totaling 18 sorties.
- SAROPS Drifts Completed: A,B,C,D
- Square NMs searched: 12,909 SQNM by air.





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TITAN Recovery



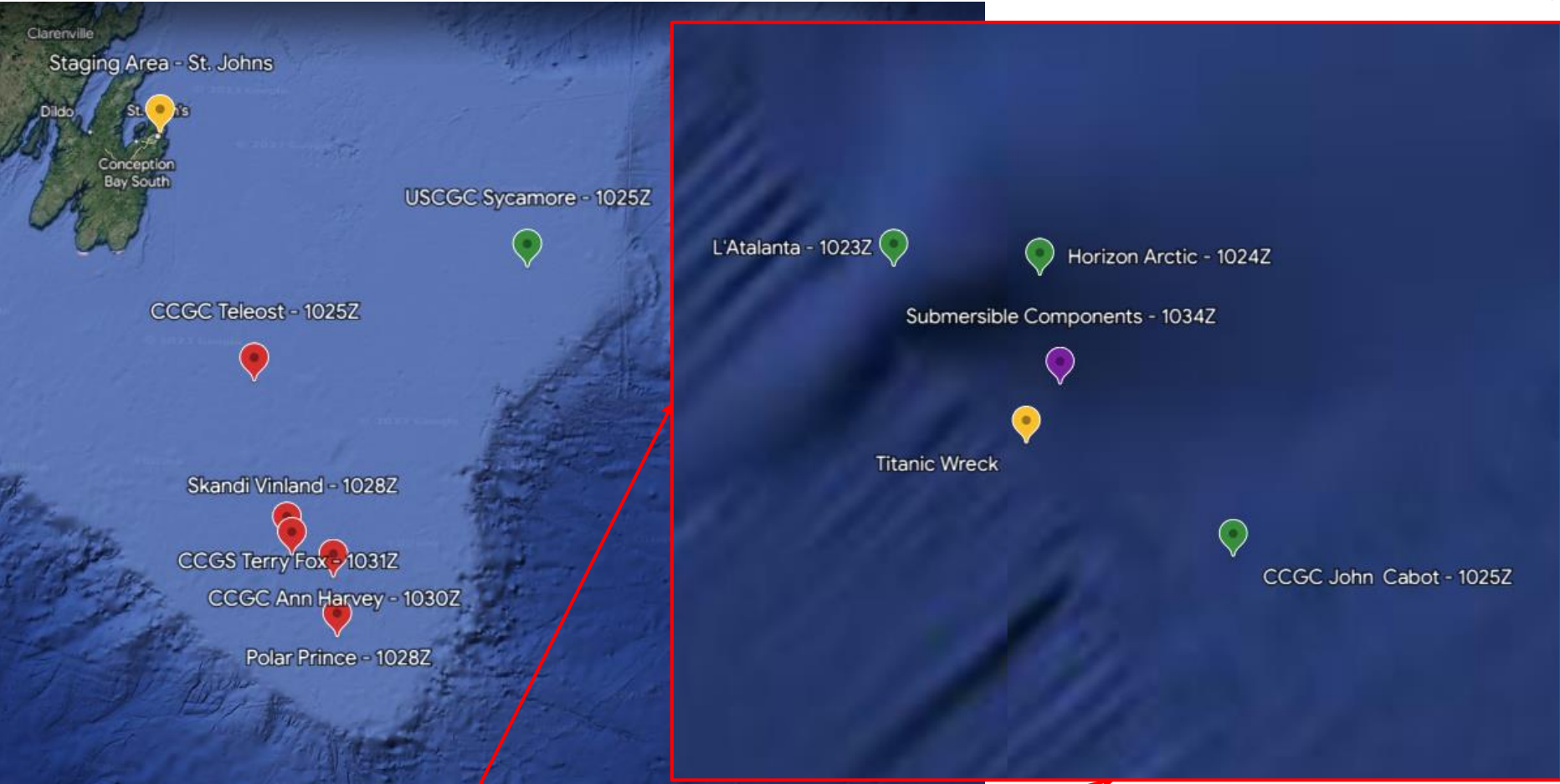
Situation Brief: 23Jun / 0700 (EST)



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Operational Area



Submersible Components - 1034Z

L'Atalanta - 1023Z Horizon Arctic - 1024Z

Titanic Wreck CCGC John Cabot - 1025Z



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Significant Updates

- ARCTIC HORIZON and L'ATALANTE O/S continuing debris field mapping.
- CCGS TELEOST enroute to site to conduct transfer:
 - 4 Navy personnel
 - 1 Coast Guard Liaison (MSC SERT)
- CCGS JON CABOT will remain O/S as On-Scene Coordinator until USCGC SYCAMORE arrives.
- Third CG Liaison, CAPT Devereaux, arrived in St. John's



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Surface Assets

Type	Vessel	ETA On-Scene	Capabilities / Tasking	Current Operations
Subsurface	L'Atalante	On Scene	ROV (6000m)	Mapping Debris Field
Subsurface	Horizon Arctic	On Scene	ROV (6000m)	Mapping Debris Field
Surface	CCGS John Cabot	On Scene	On-Scene Coordinator Advanced sonar to 11k Meters	On Scene Coordinator
Surface	USCGC Sycamore	Estimated arrival: 0600Z 24JUN23	Command and Control	Enroute to site of debris field. ETA 0600Z 24JUN23
Surface	CCGS Teleost	Estimated arrival: 1050Z 24JUN23	N/A. PAX Transfer	Enroute to site of debris field. 1050Z 24JUN23
Command Control	Polar Prince	Demobilized	Mothership to Titan	Departed at 2009Z; Enroute to St. Johns, ETA 1030Z 24JUN23
Subsurface	Deep Energy	Demobilized	ROV	Departed 2230Z; Enroute to Mobile, Alabama, ETA 29JUN23
Subsurface	Skandi Vinland	Demobilized	ROV/Lift Capability	Departed 2005Z; Enroute to St. John's, ETA 0030Z 25JUN23
Subsurface	Atlantic Merlin	Demobilized	Lift Capability	Departed 2100Z; Enroute to St. John's, ETA 1600Z 24JUN23
Command Control	CCGS Ann Harvey	Demobilized	Flight Deck with Bell 429 helo	Departed 2000Z; Enroute to St. John's ETA 0100Z 24JUN23
Command Control	CCGS Terry Fox	Demobilized	N/A	Departed; Enroute to St. Johns ETA 0000Z 24JUN23
Command Control	HMCS Glace Bay	Demobilized	Hyperbaric Chamber and Medical Team	Departed; Enroute to Halifax ETA 0200Z 25JUN23



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ROV/AUV/Lift Capable Assets



Vessel Name	Lift Capacity	ROV/AUV Name	Depth Rating	Umbilical Rating	Location
Horizon Arctic	N/A	Pelagic	6000m	6000m	On Scene Investigating Debris Field
L'Alalante	6440m w/ support from other ROV vsl	Victor 6000	6000m	6000m	On Scene Investigating Debris Field
Deep Energy	4000m	Schilling Robotics Work Class	3000m	3600m	Returning to Home Port
Skandi Vinland	3000m	Schilling Robotics Work Class	3000m	3000m	Returning to Home Port
Atlantic Merlin	4000m tow wire	N/A	N/A	N/A	Returning to Home Port



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Aviation Assets

Asset Type	Flights Planned	Completed Sorties (Total)
USCG C130	No further flights planned at this time	8
Air National Guard C130	No further flights planned at this time	5
Canadian P3 Aurora	No further flights planned at this time	8
Canadian C130	No further flights planned at this time	2



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3-Day Weather Outlook

On-Scene Weather

Date	23-Jun-23			24-Jun-23			25-Jun-23		
	0600	1200	1800	0600	1200	1800	0600	1200	1800
Air Temp	58°F	58°F	58°F	58°F	60°F	62°F	61°F	60°F	60°F
Wind	19mph	18mph	15mph	12mph	9mph	9mph	15mph	15mph	12mph
Wind Gusts	25mph	23mph	21mph	16mph	11mph	11mph	22mph	19mph	17mph
Visibility	19 miles	19 miles	19 miles	15 miles	16 miles	5 miles	15 miles	16 miles	7 miles
Sea State	4-5 ft	4-5 ft	3-4 ft	3-4 ft	3 ft	3 ft	4-5 ft	4-5 ft	4-5 ft

ROV Optimal Operating Parameters:
Winds – Below 20-25 kts
Sea State – Below 3 feet



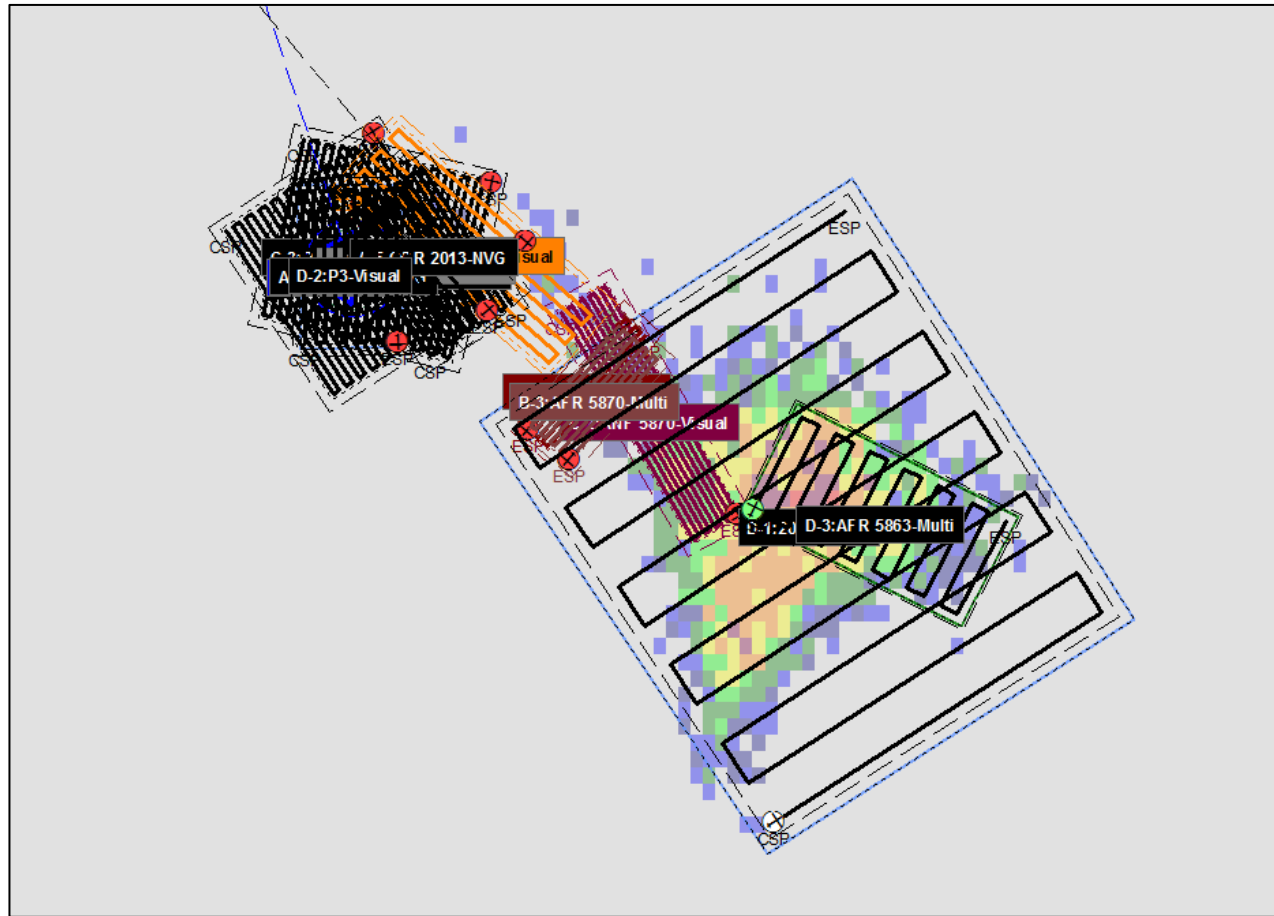
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- SAROPS Drifts Completed: A,B,C,D,E
- Square NMs searched: 12,145 SQNM by air.

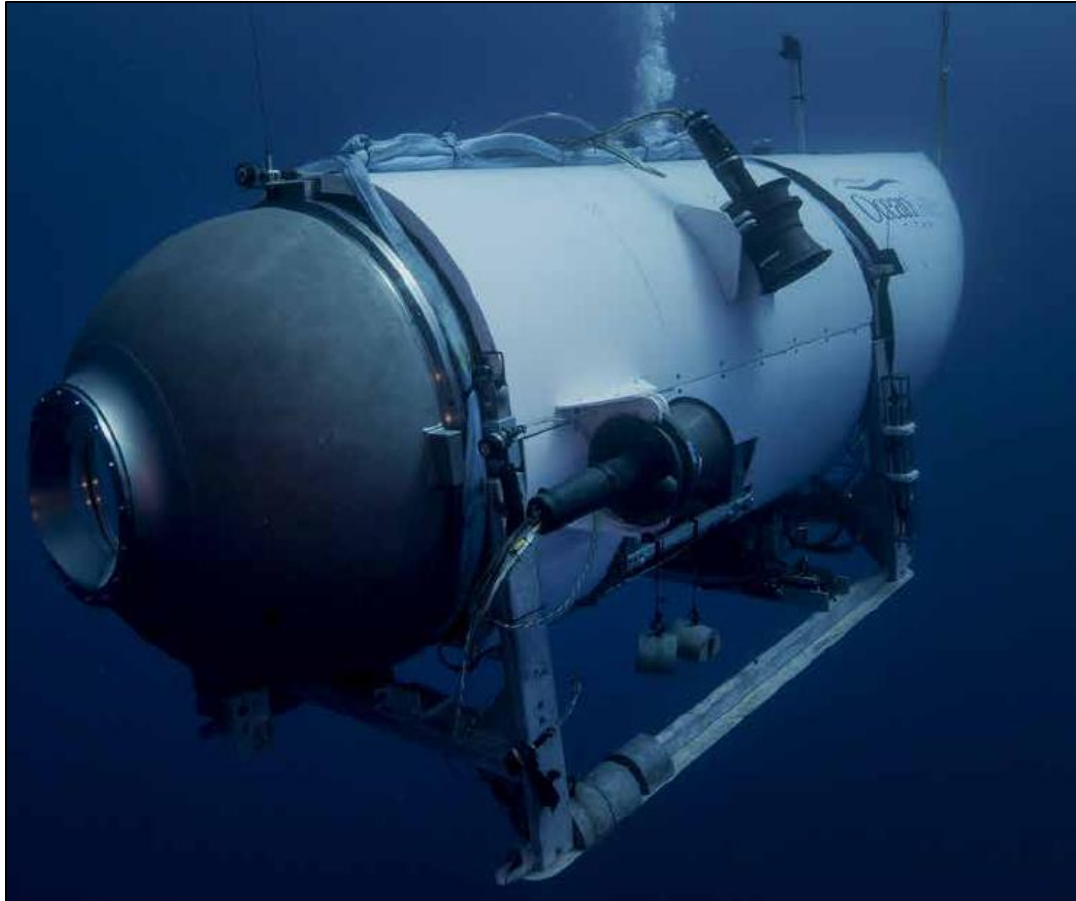




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TITAN Recovery



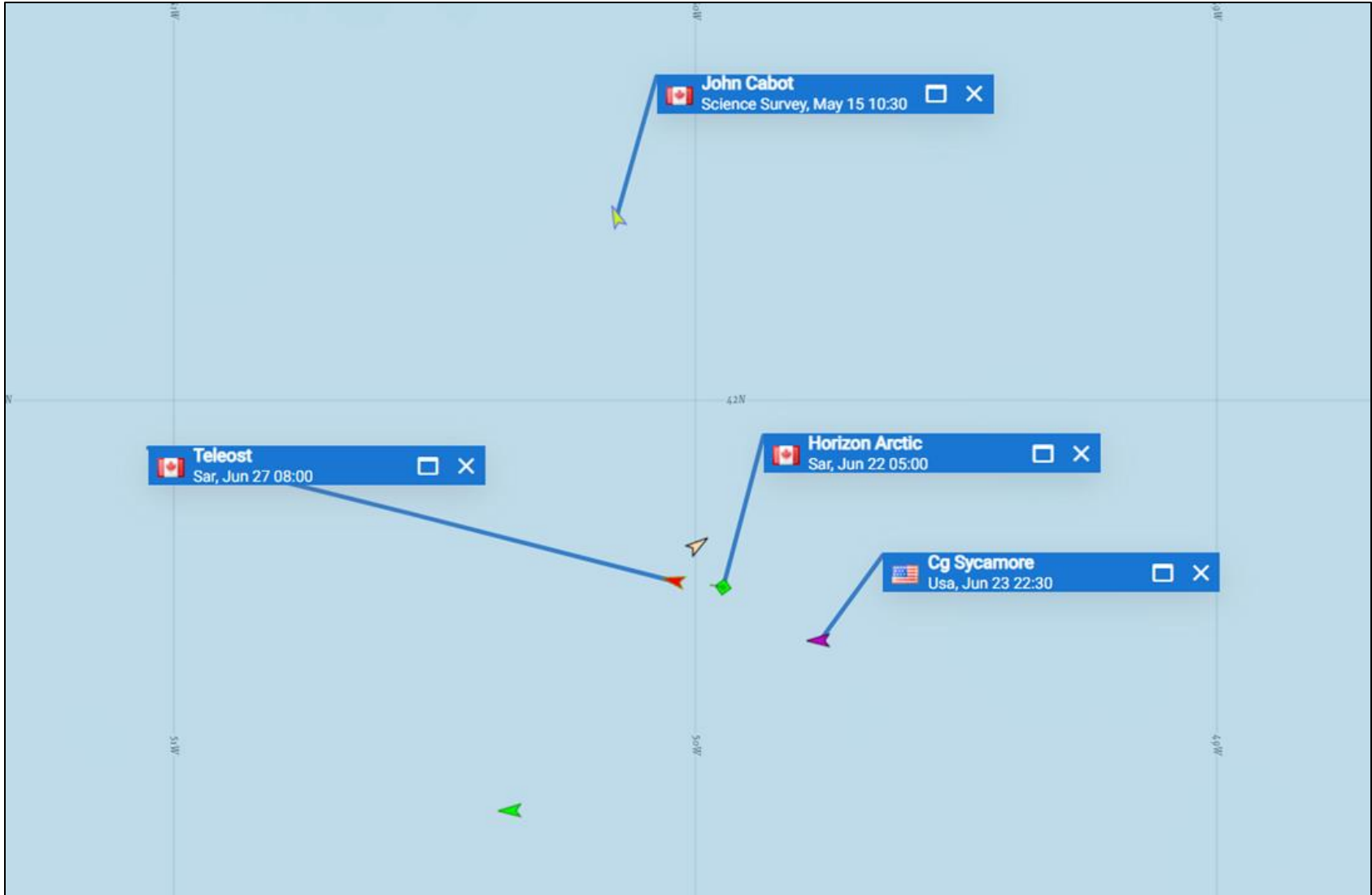
Situation Brief: 24Jun / 1000 (EST)



No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States, 46 U.S.C. §6306



Operational Area





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Significant Updates

- Unified Command working in support of the MBI and team.
- RADM Mauger and staff O/S at St. John's for meetings with family members and Canadian responders.
- Horizon Arctic completed debris field mapping at approximately 0500Z/24Jun.
- Horizon Arctic recovered 01 basket of wreckage. Recovery operations ongoing.
- USCGC Sycamore has relieved CCGS JOHN CABOT as On-Scene Coordinator.
- Navy SUPSALV and Coast Guard MSC SERT reps onboard the Artic Horizon



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Surface Assets

Type	Vessel	ETA On-Scene	Capabilities / Tasking	Current Operations
Subsurface	Horizon Arctic	On Scene	ROV (6000m)	Recovery
Surface	USCGC Sycamore	On Scene	Command and Control	On Scene Commander
Command Control	Polar Prince	Demobilized	Mothership to Titan	Arrived St. John's
Surface	CCGS John Cabot	Demobilized	On-Scene Coordinator Advanced sonar to 11k Meters	Enroute to St. John's, ETA 1030Z 26JUN23
Surface	CCGS Teleost	Demobilized	N/A. PAX Transfer	Returning to St. John's. ETA TBD.
Subsurface	L'Atalante	Demobilized	ROV (6000m)	Enroute to St. John's, ETA 2000Z 25JUN23
Subsurface	Deep Energy	Demobilized	ROV	Departed 2230Z; Enroute to Mobile, Alabama, ETA 29JUN23
Subsurface	Skandi Vinland	Demobilized	ROV/Lift Capability	Departed 2005Z; Enroute to St. John's, ETA 0030Z 25JUN23
Subsurface	Atlantic Merlin	Demobilized	Lift Capability	Departed 2100Z; Enroute to St. John's, ETA 1600Z 24JUN23
Command Control	CCGS Ann Harvey	Demobilized	Flight Deck with Bell 429 helo	Arrived St. John's
Command Control	CCGS Terry Fox	Demobilized	N/A	Arrived St. John's
Command Control	HMCS Glace Bay	Demobilized	Hyperbaric Chamber and Medical Team	Departed; Enroute to Halifax ETA 0200Z 25JUN23



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ROV/AUV/Lift Capable Assets



Vessel Name	Lift Capacity	ROV/AUV Name	Depth Rating	Umbilical Rating	Location
Horizon Arctic	4000lbs	Pelagic	6000m	6000m	On Scene Conducting Recovery
L'Alalante	6440m w/ support from other ROV vs1	Victor 6000	6000m	6000m	Returning to Port
Deep Energy	4000m	Schilling Robotics Work Class	3000m	3600m	Returning to Port
Skandi Vinland	3000m	Schilling Robotics Work Class	3000m	3000m	Returning to Port
Atlantic Merlin	4000m tow wire	N/A	N/A	N/A	Returning to Port



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Aviation Assets

Asset Type	Flights Planned	Completed Sorties (Total)
USCG C130	No further flights planned at this time	8
Air National Guard C130	No further flights planned at this time	5
Canadian P3 Aurora	No further flights planned at this time	8
Canadian C130	No further flights planned at this time	2



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States, 46 U.S.C. §6308

3-Day Weather Outlook



On-Scene Weather

Date	24-Jun-23			25-Jun-23			26-Jun-23		
Time	0600	1200	1800	0600	1200	1800	0600	1200	1800
Air Temp	58°F	60°F	62°F	61°F	60°F	60°F	65°F	65°F	61°F
Wind	12mph	9mph	9mph	15mph	15mph	12mph	14mph	11mph	16mph
Wind Gusts	15mph	11mph	11mph	22mph	19mph	17mph	18mph	17mph	19mph
Visibility	16mph	16 miles	5 miles	15 miles	16 miles	7 miles	15 miles	16 miles	7 miles
Sea State	3-4 ft	3 ft	3 ft	4-5 ft	4-5 ft	4-5 ft	5 ft	5 ft	4-5 ft

**ROV Optimal Operating Parameters:
(Launch & Recovery)
Winds – Below 23-28 mph
Sea State – Below 3 feet**



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TITAN Recovery



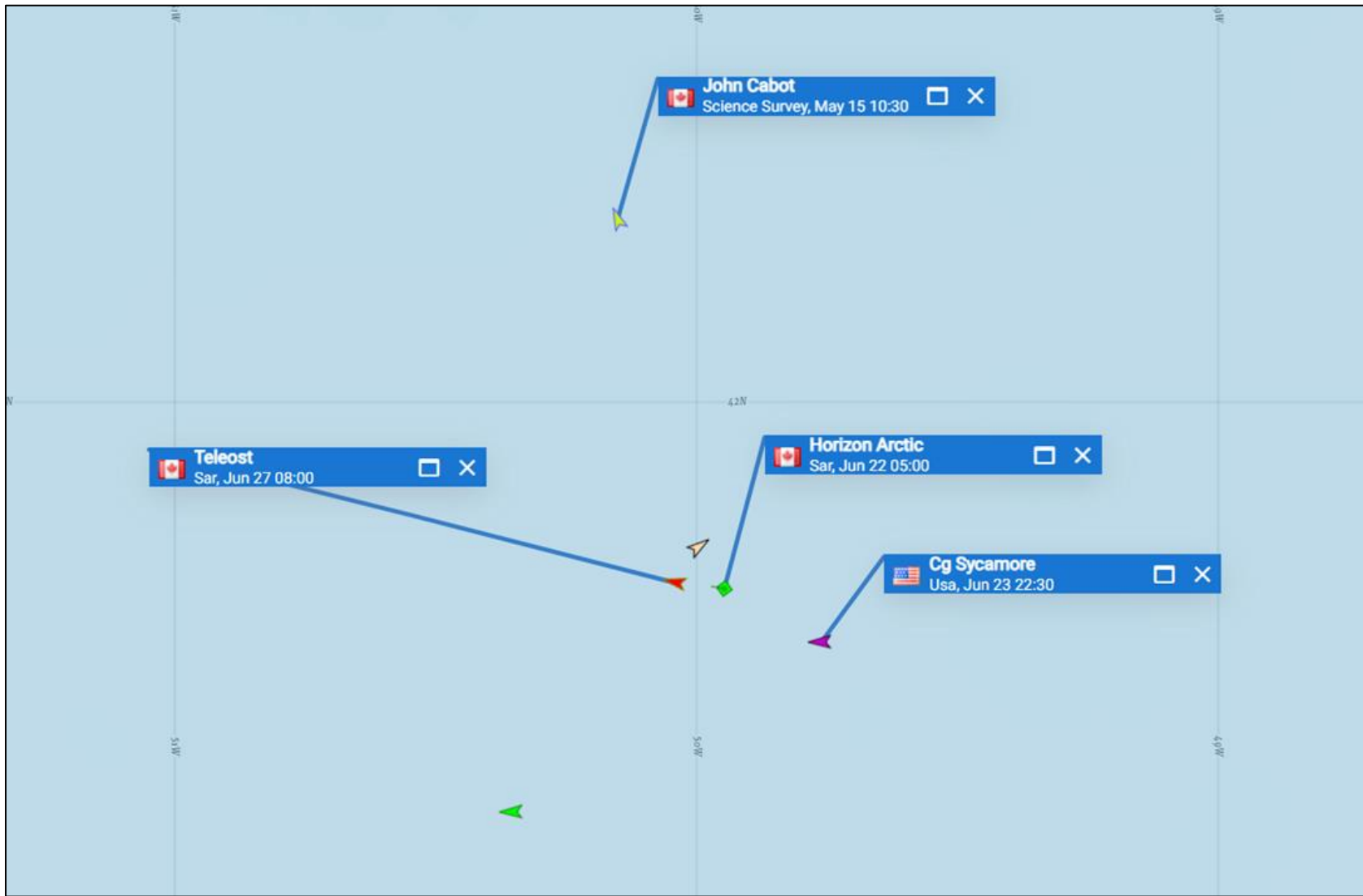
Situation Brief: 25Jun / 1130 (EST)



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Operational Area





Significant Updates

- Unified Command working in support of the MBI and team.
- RADM Mauger and staff O/S at St. John's for meetings with family members and Canadian responders.
- Horizon Arctic completed debris field mapping at approximately 0500Z/24Jun.
- Horizon Arctic recovered 01 basket of wreckage. Recovery operations ongoing.
- USCGC Sycamore has relieved CCGS JOHN CABOT as On-Scene Coordinator.
- Navy SUPSALV and Coast Guard MSC SERT reps onboard the Horizon Arctic
- D1 IMT starting the transitioning of IMT positions to the MBI team



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On-Scene Weather

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