

Ocean Observing in Placentia Bay
Score Sheet – Mission #1 Flume Tank

School/Team: _____

Team captain: _____

Mission station officials: _____

Set-Up and Safety Check

- All power cords, power bars, pressurized cylinders, etc. are secured.
- A fuse is present in the vehicle's electrical system.
- No hazardous materials are leaking onto the pool deck.
- Vehicle is hand-launched by team members in a safe manner.
- No team member has entered the water in order to prepare and/or launch vehicle.
- Vehicle is in the water near the control shack at the end of the 5-minute set-up period.

Note: Teams may attach the messenger line to their ROV on the pool deck or when the ROV is in the water at the side of the pool. The attachment should be completed during the 5-minute set up time.

Mission official's notes: _____

- Team is ready for the mission:** _____ (official's initials)

Note: *An official's decision to disqualify a team due to safety concerns is final. If there is a safety concern, please contact the lead official or competition coordinator.*

Fuses

EXPLORER: If a team blows their 40-amp fuse, their mission performance period is over. The team will receive points for the mission tasks they have completed up to that point, but will not receive a time bonus score.

RANGER: The mission time clock does NOT stop in the case of a blown fuse. If a RANGER class team blows MATE's in-line 25-amp fuse, they are allowed one replacement fuse. If the vehicle blows the second MATE fuse, their mission performance period is over. The team will receive points for the mission tasks they have completed up to that point, but will not receive a time bonus score.

Mission #1 involves:

- **Transporting the messenger line to the buoy anchor.**
- **Threading the messenger line through the buoy anchor ring.**
- **Returning the messenger line to the surface.**

Note: At the start of the mission, one team member at the control shack must hold one end of the messenger line in his or her hands. This same team member is responsible for paying out the line to the ROV as it transports the other end of the messenger line to the buoy anchor and threads it through the anchor ring. **The ROV can only thread the messenger line through the anchor ring and not around or through the links of the mooring chain.** Once the end of the line is threaded through the anchor ring, the ROV must return it to the surface. Once the line is at the surface, a team member must retrieve it from the ROV. **The mission is successfully completed when one team member holds the two ends of the messenger line in his or her hands.** This team member can be a different team member than the individual who held the line at the start of the mission. The ROV can return to the surface any time during the mission performance period.

Mission #1: Flume Tank (time limit 15 minutes, score 60 points)	
TASK	SCORE
Transport the messenger line to the buoy anchor.	20 0
Thread the line through the anchor ring so that it threads completely through the anchor ring and remains threaded once the ROV has released it.	20 0
Return the line to the surface with ROV so that one team member holds both ends of the messenger lines in his/her hands.	20 0
Total Score – Mission #1:	
PENALTY POINT DEDUCTION	
Illegally pulling tether* _____ infractions X -5	
Illegal communication* _____ infractions X -5	
Modifications made to props that remain after performance period	-5
Exceeded 5-minute demobilization period _____ minutes X -1 =	
TIME BONUS	
1 point for every minute and 0.01 point for every second under 15 minutes	
Duration of Mission: _____	
Minutes under 15 remaining: _____ X 1 point = _____	
Seconds remaining: _____ X 0.01 point = _____	
Time Bonus – Mission #1:	
TOTAL MISSION #1 SCORE	

*Issue a warning for the first infraction. Begin deducting points AFTER the first infraction.

Mission official's initials: _____ **Team captain's initials:** _____