

From the Gulf of Mexico to Jupiter's Moon Europa

SCOUT CLASS SCORE SHEET

Company Name

Company CEO: _____

Product demonstration station officials: _____

Safety Check and Set-Up (up to 10 points total)

- ☐ 5 points – Company presents signed safety inspection sheet.
- ☐ 5 points – Vehicle and control system present no safety hazards.

Examples:

- All power cords, power bars, pressurized cylinders, etc. are secured.
- No hazardous materials are leaking onto the pool deck.
- Vehicle is hand-launched by team members in a safe manner.

Company is cleared for demonstration: _____ (official's initials) _____ total points (out of 10)

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

Penalty Points

Tether pulling: Issue a warning for the first infraction. Begin deducting points AFTER the first infraction.

Debris: Companies that leave debris (e.g. parts of their ROV, including weights and flotation) in the pool such that a diver must retrieve the debris will also receive penalty points. Product demonstration props are NOT considered debris. A company constructed collection basket is considered debris.

Diver Assistance: Diver assistance may or may not be available during regional product demonstration time. Diver assistance will result in a 5 point penalty, even after the product demonstration time is complete.

Fuses

If a vehicle blows the MATE power supply in-line fuse, the company is allowed one spare. If the vehicle blows the second MATE fuse, the product demonstration performance period is over. The company will receive points for the product demonstration tasks that they have completed up to that point but will not receive a time bonus score.

Bonus points for size

Size bonus, up to 10 points – _____

- ROV is less than 40 cm – 10 bonus points
- ROV is within 40.1 cm and 48 cm – 5 bonus points
- ROV is greater than 48.1 cm – 0 bonus points

Judge initials: _____

CEO initials: _____

SCOUT Product Demonstration Task Scoring Breakdown:**Task #1: Mission to Europa****Scoring – up to 50 points****Judges' Notes:** Companies may complete the steps of Task #1 in any order and may alternate between this and the other tasks.**1.1 10 points** – retrieving the ESP's cable connector from the elevator _____**1.2 20 points** – opening the door on the power and communication hub _____**1.3 20 points** – inserting the cable connector into the port on the hub _____**TOTAL POINTS FOR TASK #1** _____**Task #2: Mission-Critical Equipment Recovery****Scoring – up to 40 points****Judges' Notes:** Companies may alternate between this and the other tasks.**2.1 up to 20 points (5 points each)** – recovering the four CubeSats and placing them into the collection basket _____**2.2 up to 20 points (5 points each)** – returning the four CubeSats to the surface _____**TOTAL POINTS FOR TASK #2** _____**Task #3: Forensic Fingerprinting****Scoring – up to 40 points****Judges' Notes:** Companies may complete the steps of Task #3 in any order and may alternate between this and the other tasks.**3.1 up to 10 points (5 points each)** – collecting one sample from two oil mats _____**3.2 up to 10 points (5 points each)** – returning the samples to the surface _____**3.3 up to 20 points (10 points each)** – analyzing gas chromatographs to determine the samples' origin _____**TOTAL POINTS FOR TASK #3** _____

Task #4: Deepwater Coral Study**Scoring – up to 30 points****Judges' Notes:** Companies may complete the steps of Task #4 in any order and may alternate between this and the other tasks.**4.1 up to 15 points (5 points each) –** collecting three corals from the seafloor _____**4.2 up to 15 points (5 points each) –** returning three coral samples to the surface _____**TOTAL POINTS FOR TASK #4** _____**Task #5: Rigs to Reefs****Scoring – up to 40 points****Judges' Notes:** Companies MUST complete the steps of Task #5 in order. Companies may alternate between this and the other tasks. Companies that cannot complete one of the steps cannot continue with the remaining steps of Task #5.**5.1 10 points –** retrieving the wellhead cap from the elevator _____**5.2 10 points –** installing the cap over the wellhead _____**5.3 10 points –** retrieving the bolt from the elevator _____**5.4 10 points –** securing the cap to the wellhead with the bolt _____**TOTAL POINTS FOR TASK #5** _____**Please use the scoring summary worksheet below to verify and tally scores.**

SCORING SUMMARY WORKSHEET

SAFETY CHECK & SET-UP			
Signed safety inspection sheet	0	5	
Vehicle and control system present no hazards	0	5	
Safety check and set-up point total:			
SIZE Bonus			
Size bonus	0	5	10
Task #1: Mission to Europa (up to 50 points)			
Retrieving the ESP's cable connector from the elevator	0	10	
Opening the door of the power and communications hub	0	20	
Inserting the cable connector into the port	0	20	
Task #1 point total:			
Task #2: Mission Critical Equipment Recovery (up to 40 points)			
Recovering the four CubeSats and placing them in the collection basket	0	5	10 15 20
Returning the four CubeSats to the surface	0	5	10 15 20
Task #2 point total:			
Task #3: Forensic Fingerprinting (up to 40 points)			
Collecting one sample of two oil mats on the seafloor	0	5	10
Returning the samples to the surface	0	5	10
Analyzing gas chromatographs to determine the samples' origin	0	10	20
Task #3 point total:			
Task #4: Deepwater Coral Study (up to 30 points)			
Collecting three coral samples from the seafloor	0	5	10 15
Returning three coral samples to the surface	0	5	10 15
Task #4 point total:			
Task #5: Rigs to Reefs (up to 40 points)			
Retrieving the wellhead cap from the elevator	0	10	
Installing the cap over the wellhead	0	10	
Retrieving the bolt from the elevator	0	10	
Securing the cap to the wellhead with the bolt	0	10	
Task #5 point total:			
PENALTY POINT DEDUCTIONS			
Illegally pulling tether _____ infractions X - 5			
Leaving debris in the pool _____ infractions X - 5			
Diver assistance _____ - 5			
Exceeded 2-minute demobilization period _____ minutes X - 1 =			
TIME BONUS			
1 point for every minute and 0.01 point for every second under 10 minutes			
Duration of Product Demonstration: _____			
Minutes under 10 remaining: _____ X 1 point = _____			
Seconds remaining: _____ X 0.01 point = _____			
Time bonus			
TOTAL PRODUCT DEMONSTRATION SCORE			

Official's initials: _____

Company CEO's initials: _____