# From the Gulf of Mexico to Jupiter's Moon Europa

SCOUT CLASS SCORE SHEET

Company Name

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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:
<ul> <li>All power cords, power bars, pressurized cylinders, etc. are secured.</li> </ul>
<ul> <li>No hazardous materials are leaking onto the pool deck.</li> </ul>
<ul> <li>Vehicle is hand-launched by team members in a safe manner.</li> </ul>
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
<b>Tether pulling</b> : Issue a warning for the first infraction. Begin deducting points AFTER the first
infraction.
<b>Debris</b> : 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. <b>Diver Assistance</b> : 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.
<u>Fuses</u> 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

# Size bonus, up to 10 points -

Bonus points for size

o ROV is less than 40 cm - 10 bonus points

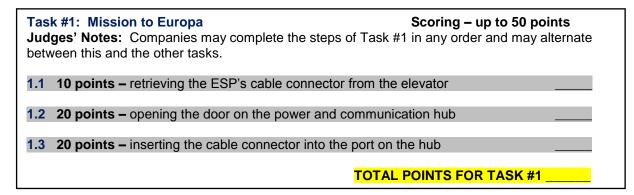
point but will not receive a time bonus score.

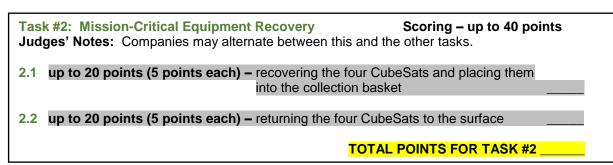
- ROV is within 40.1 cm and 48 cm 5 bonus points
- o ROV is greater than 48.1 cm 0 bonus points

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Judge initials:

### SCOUT Product Demonstration Task Scoring Breakdown:





# Task #3: Forensic Fingerprinting 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
- **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**

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				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 1	0 15	20
Returning the four CubeSats to the surface			0 15	
Task #2 point total:				
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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		<u>5                                    </u>	10
Analyzing gas chromatographs to determine the samples' origin	0		0	20
Task #3 point total:			-	
Tuok no 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 from the seahoor		5	10	15
Task #4 point total:	0		10	-10
Tusk #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				10
Retrieving the bolt from the elevator				10
Securing the cap to the wellhead with the bolt	0			10
Task #5 point total:				10
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: