



TEAMS: KEY DEADLINES AND REGIONAL FAQS

[REGISTRATION IS OPEN](#) for the Gray's Reef Southeast regional qualifier and closes for teams on April 22, 2022. Students may continue to register and join a team until May 5, 2022. **ALL** students, coaches and volunteers are required to register their participation through Active which is the MATE competition database and includes the required waivers (media and liability).

Gray's Reef Southeast MATE ROV Competition is a regional qualifying event for the MATE ROV World Championship. Student teams from across Georgia and the southeast compete in five different classes of skill level [SCOUT, NAVIGATOR, RANGER, PIONEER and EXPLORER] with their custom-built robots to complete a complex underwater mission simulations to restore our ocean through sustainable practices like maritime aquaculture, renewable energy, and historical climate studies.

Since 2004, Gray's Reef has provided opportunities for regional students and teachers to learn and participate in ocean science and engineering missions, and each year we advance the top qualifying student teams to compete against the world's best. This year, we'll see teams in all five classes including our new PIONEER class for 2-year community and technical colleges. PLUS, our reigning RANGER-class **MATE ROV World Champions**, *North Paulding Robotics* from North Paulding High School, will compete against new challengers in the region to retain the title.

Gray's Reef will offer a HYBRID Competition event again this year following COVID-19 guidelines with a special livestream for remote viewing. Continuing from last year, our team Engineering interviews with a panel of judges will be hosted via Zoom and scheduled in advance of the competition. We will require Technical Reports along with Marketing Posters to be submitted electronically and scored in advance. Team ROV demonstrations will be in-person.

TIMELINE:

- Engineering and Communications – video meetings and digital file scoring (technical reports, marketing posters, spec sheets, JSA) **REMOTE ONLY**
REPORTS DUE: April 22, 2022



- Safety Inspections and Product Demonstration **IN-PERSON**
ALL TEAMS: May 7, 2022
- Awards Ceremony **REMOTE ONLY**
EVERYONE: May 8, 2022

COMPETITION VENUE:

Chatham County Aquatic Center, 7240 Sallie Mood Drive Savannah, GA 31406

- Check-in on Saturday, **May 7th** begins at 8AM at the Registration table. Be sure to complete an onsite survey for your **free lunch** ticket!

VIDEO EXAMPLES

The 2021 Gray's Reef Southeast MATE ROV Competition [livestream video](#) is linked here and provides a visual orientation to the ROV mission stations, with camera views on deck where teams compete and on the underwater obstacle course. Enjoy this narrated livestream featuring MATE Inspiration for Innovation President/Executive Director, Jill Zande, and Gray's Reef Foundation's Founding Board Chair, Cathy Sakas.

This year's mission props and tasks were discussed in detail during these recent MATE Facebook Live demonstration events with team Q&A. If you want to learn more about the props, how the teams are to interact with them, and how they are scored in the mission demonstration, then watch these Facebook videos: [RANGER/PIONEER/EXPLORER](#) and [SCOUT/NAVIGATOR](#)

ENGINEERING INTERVIEWS

* Coach/Team Captain - [Please indicate your availability on this scheduler](#).

Engineering interviews will be scheduled with teams during **April 25th – May 5th**. A Zoom link will be provided by organizers to the scheduled interviews, once confirmed. Teams will join the Judging Panel on a Zoom call and will present their vehicle (on camera) and detail the engineering design process that the team undertook to build the ROV. They should introduce their team and describe the teamwork along with the solutions implemented to perform the mission tasks.



See this example [interview with Sea Life Technologies](#) from last year and subsequent judges Q&A. This ROV team won top score on their RANGER-class Engineering Interview at the regional event and the World Championships last year. Note that the judges were less prepared than this team which we share as an example for others to aspire in their presentation preparation.

References:

- EXPLORER/PIONEER/RANGER-class [scoring rubric](#)
- NAVIGATOR/SCOUT-class [scoring rubric](#)

TECHNICAL REPORTS

All technical reports (RANGER, NAVIGATOR, SCOUT) are due from teams by April 22nd.

[Submit documents here.](#) * Suggestion for naming files - ex. (AquaPhoenix_GRMATE_technicaldoc_2022)

Company Spec Sheet Scoring:

- RANGER-class [scoresheet](#)
- NAVIGATOR-class [scoresheet](#)
- SCOUT-class [scoresheet](#)

Technical Reports Scoring:

- RANGER-class [scoresheet](#) ([supplemental detail](#))
- NAVIGATOR-class [scoresheet](#)
- SCOUT-class: (ex. [SID](#)) diagram due for on-site safety inspection

MARKETING POSTER

All team Marketing Posters (SCOUT, NAVIGATOR, RANGER) are due by April 22nd.

[Submit documents here.](#) * Suggestion for naming files - ex. (AquaPhoenix_GRMATE_marketingposter_2022)

References:

- All classes, reference this [instructional Prezi](#).



MISSION DEMONSTRATIONS (MAY 7, 2022 9AM – 4PM)

All teams will participate in a scheduled Mission Demonstration (SCOUT, NAVIGATOR, RANGER, PIONEER, EXPLORER) in-person on Saturday, May 7th at Chatham County Aquatic Center in Savannah, GA. Teams will run a Mission Demonstration attempt in the morning and a second attempt in the afternoon for best score.

References:

- EXPLORER-class [scoresheet](#) ([video fly-thru](#)) DEMO for WORLD CHAMPIONSHIPS
- PIONEER-class [scoresheet](#) ([video fly-thru](#)) DEMO for WORLD CHAMPIONSHIPS
- RANGER-class [scoresheet](#) ([video fly-thru](#))
- NAVIGATOR-class [scoresheet](#) ([video fly-thru](#))
- SCOUT-class [scoresheet](#) ([video fly-thru](#))

SAFETY INSPECTION (MAY 7, 2021 9AM – 3PM)

All teams are required to pass a Safety Inspection prior to attempting their Mission Demonstrations (SCOUT, NAVIGATOR, RANGER, PIONEER, EXPLORER) on **Saturday, May 7th**. Safety is a priority and student teams will be offered up to three attempts to pass their inspection.

References:

- EXPLORER-class [onsite safety inspection](#) ([tutorial](#)) submit safety video to MATE
- PIONEER-class [onsite safety inspection](#) submit safety video to MATE
- RANGER-class [initial safety inspection](#), [onsite safety inspection](#)
- NAVIGATOR-class [initial safety inspection](#), [onsite safety inspection](#) ([tutorial](#))
- SCOUT-class [onsite safety inspection](#)

A tent/table/chairs will be provided outside of the venue for teams to set up for in-person product demonstration mission trials. Teams are invited to set up their own tents, tables and chairs outside of the venue for additional team members, mentors and parents to sit during the event. Feel free to get comfortable in this beautiful Savannah springtime weather!



Chic-Fila will be on-site to offer lunch to participants. Food trucks will be invited to provide additional options to attendees. Team members/mentors – complete the onsite survey at the Registration Tent for your **free lunch** tickets! Parents are also invited to complete a survey.

An awards announcement ceremony will be hosted at 1PM on **Sunday, May 8th** online for everyone to attend. Links to the livestream and awards ceremony will be posted [online](#) closer to the date of the event.

Please contact the Gray's Reef Southeast MATE ROV Competition Coordinator with questions and we look forward to seeing you soon!

Jody Patterson, *Chapter Director*

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