



# Lone Star EARLY Robotics Tournament February 8<sup>th</sup>, 2020 Houston, Texas Burbank Middle School 8:00-4:00

**Engineering And Robotics Learned Young**  
*Engaging Students in Engineering before Stereotypes*  
**Western Hemisphere Red Mission Rules**

Robotists, the Global Ocean Exploration Scientists, GOES, needs your help exploring the Atlantic Ocean! Using their Seabots, GOES is continually making discoveries in the oceans that aids and improves our lives, and from GOES discoveries, we are keeping our oceans, seas, and gulfs much healthier. GOES needs you to build a robot to deploy the Seabots in the North and South Atlantic Oceans. Please help GOES explore the Atlantic!

Below is everything that we know about the mission.

- The team must be ready to execute the mission for your EARLY Tournament.
- The equipment available for a team to build a robot is 3 LEGO Simple & Motorized Mechanisms Kits.
- The following diagram presents the environment that will be encountered. Construction details are found in the Mission Field Details document.

Field	48" x 48"	Field Perimeter	2" x 4" Boards
North America (Home)	15" x 15"	North Pacific Ocean	20" x 21"
Rocky Mountains	1" x 1" Molding	North Atlantic Ocean	25" x 21"
Central America	10" x 9"	Equator	2 strings 2 struts 1" x 1" Molding Centered between Top & Bottom Borders
South America	15" x 30"	South Pacific Ocean	20" x 16"
Andes Mountains	1" x 1" Molding	South Atlantic Ocean	25" x 16"
Antarctica	45" x 5"	Iceberg	1" x 1" Molding

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The following diagram presents where the Seabots and Carriers will be in the Western Hemisphere.

Seabot Carrier, Atmosphere Carrier, Midnight Carrier, Twilight Carrier, Trench Carrier, Abyss Carrier, Sunlight Carrier

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Please register teams by contacting Lucien Junkin at [Lucien.Q.Junkin@NASA.gov](mailto:Lucien.Q.Junkin@NASA.gov) by February 3<sup>rd</sup>, 2020. Registration fee is \$40 per team.

[www.EARLYrobotics.org](http://www.EARLYrobotics.org)