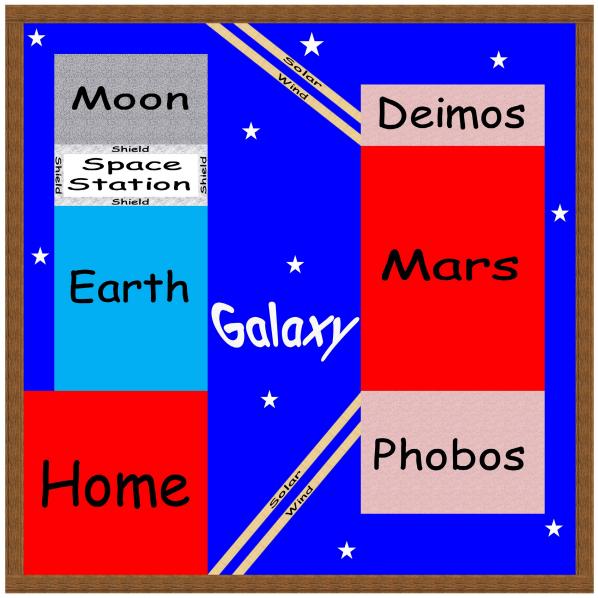
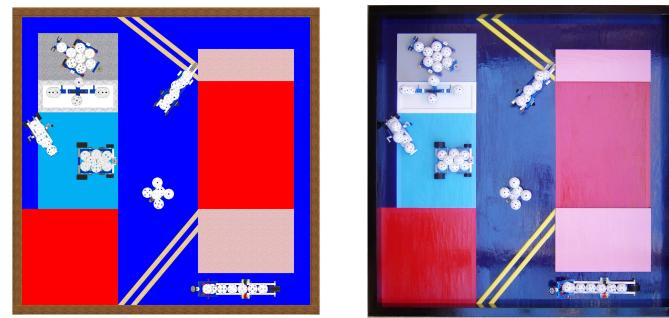


The Fall 2011 EARLY Robotics Competition mission field, Galacticville, is a $4' \times 4'$ field with a $2'' \times 4''$ border with various terrain features. The following information is provided for constructing the mission field.

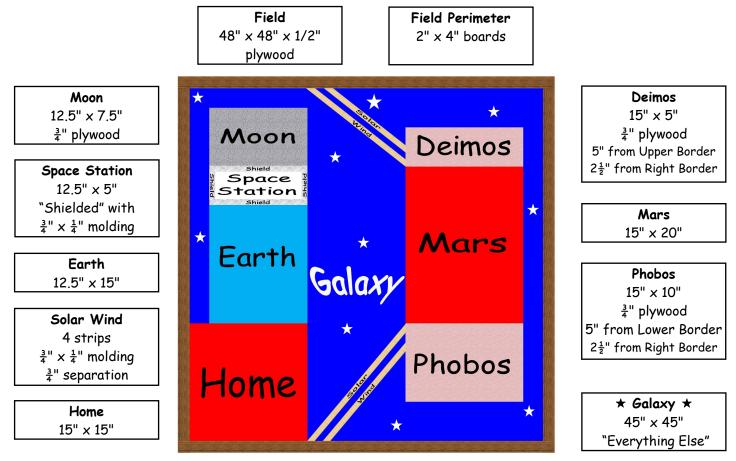
Galacticville



Fall 2011 EARLY Mission Field



Fall 2011 Mission Model Positions



Galacticville



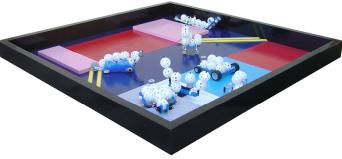
View from the HOME & PHOBOS



View from the HOME



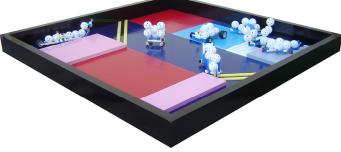
View from the EARTH



View from the MOON



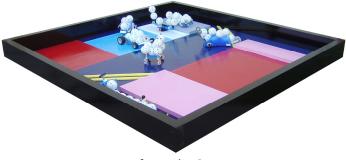
View from the MOON & DEIMOS



View from the **DEIMOS**



View from the MARS



View from the PHOBOS

- The bottom of the mission field is a 4' x 4' sheet of $\frac{1}{2}$ " plywood.
- The outer boundary of the mission field is made of 2x4 boards (actual dimension of 1¹/₂" x 3¹/₂") and is *black*. The side of the 2x4 board that is 1¹/₂" is attached to the plywood with glue, nails, or screws.
- HOME is a 15" by 15" flat area and is *red*.
- The EARTH is a 12.5" by 15" flat area and is *light blue*. The EARTH is adjacent to HOME, is adjacent to the SPACE STATION, and is 2.5" away from the mission field boundary.
- The SPACE STATION is a 12.5" by 5" area and is *white*. The SPACE STATION is adjacent to EARTH, is adjacent to the MOON, and is 2.5" away from the mission field boundary. The SPACE STATION includes the SHIELD that defines the perimeter of the SPACE STATION and is made from $\frac{3}{4}$ " x $\frac{1}{4}$ " screen molding; the molding is fastened to the mission field with glue, nails, or screws. The screen molding can be purchased at Home Depot (part # 927-139).
- The MOON is a 12.5" by 7.5" piece of ³/₄" plywood and is *gray*. The MOON is adjacent to the SPACE STATION, is 2.5" away from the left mission field boundary, and is 2.5" from the top mission field boundary. The plywood is fastened to the bottom of the mission field with glue, nails, or screws.
- DEIMOS is a 15" by 5" piece of ³/₄" plywood and is *pink*. DEIMOS is adjacent to MARS, is 2.5" from the right mission field boundary, and is 5" from the upper mission field boundary. The plywood is fastened to the bottom of the mission field with glue, nails, or screws.
- MARS is a 15" by 20" flat area and is *red*. MARS is adjacent to DEIMOS, is adjacent to PHOBOS, and is a 2.5" away from the mission field boundary.
- **PHOBOS** is a 15" by 10" piece of ³/₄" plywood and is *pink*. **PHOBOS** is adjacent to **MARS**, is 2.5" from the right mission field boundary, and is 5" from the lower mission field boundary. The plywood is fastened to the bottom of the mission field with glue, nails, or screws.
- The GALAXY is a 45" by 45" flat area and is *navy blue*. The GALAXY includes all the area that is not covered by HOME, the EARTH, the SPACE STATION, the MOON, DEIMOS, MARS, and PHOBOS. The GALAXY includes the SOLAR WIND.
- The SOLAR WIND is made from ³/₄" x ¹/₄" screen molding and is *yellow*. The SOLAR WIND is made of two sets of molding with two strips each; the molding is ³/₄" apart and is fastened to the mission field with glue, nails, or screws. The screen molding can be purchased at Home Depot (part # 927-139).
- The *light blue* color can be made by mixing 1 part navy blue paint with 2 parts white paint.
- The gray color can be made by mixing 1 part black paint with 3 parts white paint.
- The *pink* color can be made by mixing 1 part red paint with 10 parts white paint.

Please contact <u>Mission.Control@EARLYrobotics.org</u> with any questions or comments.

Thank you for maintaining the spirit of the game!