

Field Setup Instructions for Minnesota HSR

Build the mission models as specified in the Field Set Kit and the online Q&A. Then set up the playing field as instructed. Then follow these instructions for mission model/field changes for the 2008-09 HSR challenge.

The significant change for HSR is the relocation of the base. For HSR, the research area in the south EAST corner of the mat is the starting base for all robot operations. **(See picture at end of Mission Instructions.)** The southwest corner will no longer have any significance for the one robot division. Any instruction for HSR that states "base" will be referring to the research area base (which does include the ice model.) All base rules apply, no extensions outside the edge of the base, height restriction, ... For the 2 robot division both southern corners will be used as bases. - Please note there are changes this year to the FLL standard rules with regards to starting and robot motion in base, these also apply to HSR.

Model Details

Levee Blocks - No change

Test Levee - Storm (Wheel Roller) – No change

People – Changes: Remove one person with black, one person with blue and one person with red shirts from the base. (That should leave only 3 total people in base, one of each different colored shirts.) Also:

- **both black pants are working on changes to the drilling rig rather than on their marks in the research area, and should be located on their skis to the East of the drilling platform, facing south along the east edge of the mat. (See enclosed picture.)**
- both blue pants and both red pants people remain where they were placed by FLL instructions.

Underground Reservoir – No change

Ice Sheet – Changes: Remove the ice core sample from the hole. Remove the ring of 4 red arc pieces that outlined the hole. Remove the lowest piece of the ice-core sample itself (a 2x2 circle) and place it in the hole. It should spin freely, but will be flush with the ice sheet surface. This is done only out of kindness, since this ice sheet is now part of the base. ☺ **Also the 3 "ice bergs" (1x4 white) are removed. (See enclosed picture.)**

Please note, as per FLL instructions the existing ice sheet model does not exactly match the location marks on the mat.

House – Changes: A hurricane has come through this low-lying shore area and damaged the house. The people were unable to evacuate the house in time and are waiting to be rescued. Remove the Eastern half of the roof. Put the 2 insulation blocks on the corners of the roof aligned east/west. Place the people with the blue shirt and the red shirt (that were removed from base) seated on each of these blocks, facing east. **(See enclosed picture.)**

Cross-Pointers (Interactive Models) – No change

Flood Gate – No change

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Carbon Dioxide And Money – Change: The money ball (yellow) will be placed randomly in one of the 5 existing locations. The Carbon dioxide balls will fill the remaining 4 locations.

Core Drilling Rig – No change

Bicycle, Ice Buoy, Laptop, And Insulation – Change: The insulation is no longer a mission as it has been blown to the roof of the house and gotten stuck there.

Bear And Snowmobile – Change: The bear and snowmobile will remain in the southwest corner (original FLL base). They will be placed upright on the LEGO logo in a random orientation (placement for single robot division only).

Removed and unused should be:

- 3 ice bergs (1x4 white pieces)
- Ice core ring (4 red arc pieces)
- Ice core (loop and only one circular white 2x2)
- one black shirted person
- Eastern ½ of the house roof (2 large roof pieces and a black thin 2x2)

One Robot Division – In base (Research area)

- 3 people, one each with a red, blue and black shirt
- 5 levee pieces
- (The bear and snowmobile are on the LEGO logo in the southwest corner)

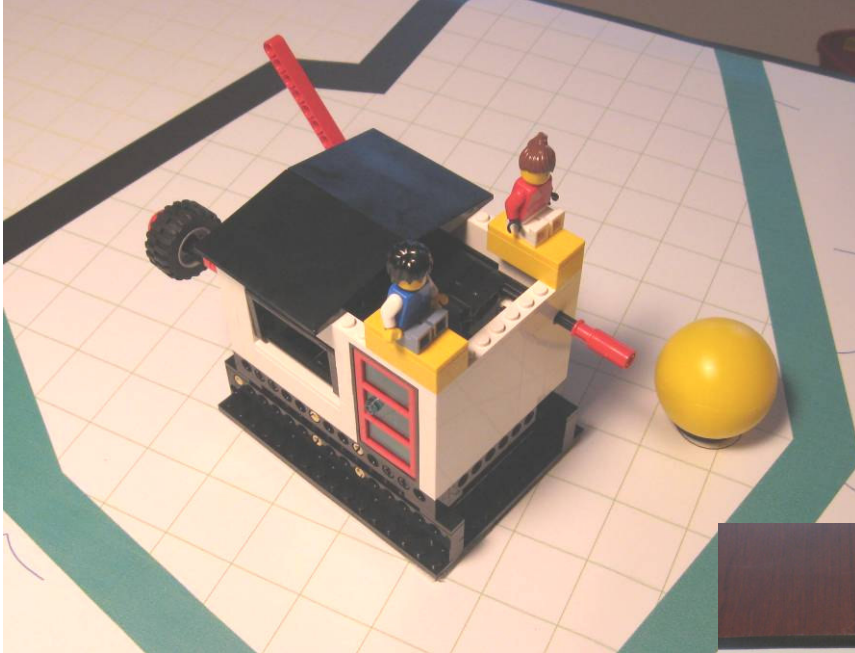
Two Robot Division – In base (Research area)

- 1 person with black shirt

Two Robot Division – In base (original southwest base)

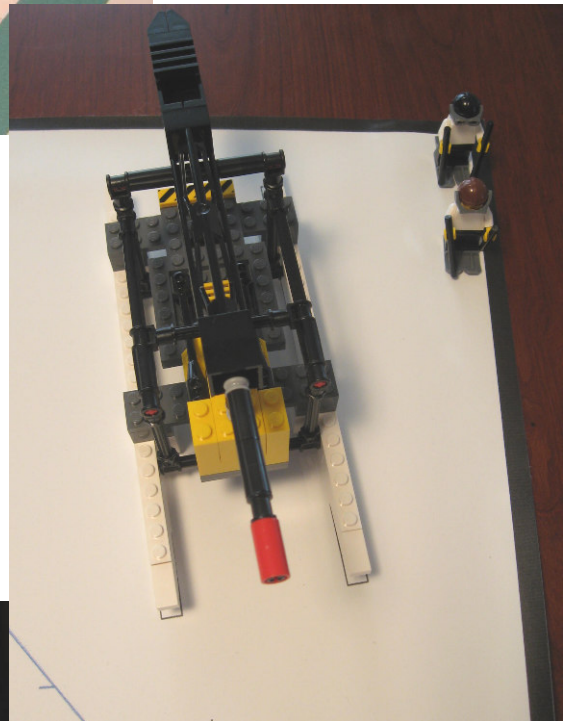
- 2 people, red and blue shirt
- Bear and snowmobile (obviously anywhere, since this is a base)
- 5 levee pieces

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Placement of people and complete insulation block on house. People are not connected to insulation blocks.

Two black pants people (skiers) working on drilling rig. →



Ice Sheet with core sample hole filled.

