

U.S. Spacemodeling Junior Team S5B Qualification for 2023 Team



S5B, Junior Scale Altitude, is an event that combines the altitude competition and the scale competition. The objective of the competition is to achieve the highest altitude with a scale space model, flying on a standard B class motor (2.51-5.0 Newton-seconds).

Each entry is judged as to quality of build and receives a static score. The model is then flown carrying a tiny altimeter to determine the how high it goes. The static score and the altitude score (in meters) are added together to determine the final score. The highest score wins.

The international S5B competition for Juniors requires a model of 25 mm minimum diameter which is at least 500 mm long. Any real rocket which has flown may be chosen to be modeled. For the actual WSMC in 2023 all Junior models will have to meet these requirements. Juniors who make the team in S5 will receive a lot of help from senior modelers to meet those requirements.

But because construction of such models usually requires special tooling and construction techniques unfamiliar to most beginners, the qualification for the U.S. Junior team will use a different standard.

For the team qualification trial the competitor will be asked to build an Estes Black Brant III kit (Estes kit 1293). This is a standard, easily available model in the U.S., which is similar to many flown in actual international competition.

For the flyoffs, any Junior competitor choosing to fly S5B will build an Estes Black Brant III kit, submit it for static judging, and then fly it with an altimeter that will be supplied at the contest. All models will be flown with an Estes B6-6 motor which will be supplied at the contest.

The competitor may substitute any parts they desire to make the model fly higher, but it must adhere to the size and shape of the standard kit. A streamer may be substituted for the parachute if desired. The model must include a launch lug to fly off a standard 1/8" launch rod.

This will allow the judges to get a good idea how well a competitor builds, and allows for an easily available inexpensive kit to practice and compete with.

For practice, the competitor may use any altimeter they desire, but for the actual competition these models will be flown with the Adrel MaxAlt altimeter which will be available at the flyoffs.

If you have any questions regarding these requirements or where to get a kit, please contact stevekristal@wowway.com.