P42 GIANT ALTITUDE COMPETITION

P42.1 Scope

Giant Altitude competition comprises four events open to any single stage model rocket that satisfies length and diameter requirements. The objective of this competition is to achieve the highest altitude using large models.

P42.2 Payload

The model may be required to carry one or more NAR standard payloads (see Rule 25.2) to reduce the maximum altitude and make recovery of the model feasible on launch fields of limited size. The payload requirement, if any, shall be specified by the Contest Director when the contest is sanctioned.

P42.3 Classes

This competition is divided into classes based on the permissible total impulse of the motor(s). The following classes of Giant Altitude competition are established:

Motor Class	Minimum Length (cm)	Minimum Diameter (mm)	Weighting Factor
D	80	40	13
E	130	65	14
F	150	75	15
G	200	100	16

Length is measured from the tip of the nose cone to the aftmost end of the motor nozzle. If the model has more than one motor, the length shall be measured to the motor nozzle closest to the tip of the nose cone.

The diameter of the model must be equal to or greater than the minimum diameter for at least 75% of the model's length. Boatails are allowed as long as the 75% requirement is satisfied.