

## **Atlas V Launch Weather Criteria**

**Do not launch** if the wind at the launch pad exceeds 33 knots (38 mph).

**Do not launch** if the ceiling is less than 6,000 feet or the visability is less than four nautical miles.

**Do not launch** through upper-level conditions containing wind shear that could lead to control problems for the launch vehicle.

**Do not launch** through or within five nautical miles of a cloud layer greater than 4,500 feet thick that extends into freezing temperatures, unless other specified criteria have been met.

**Do not launch** through or within five to 10 miles of cumulus clouds with tops that extend into freezing temperatures unless specified conditions and distances can be met.

**Do not launch** within 10 nautical miles of the edge of a thunderstorm that is producing lightning for 30 minutes after the last lightning is observed.

**Do not launch** for 30 minutes after lightning is observed within 10 nautical miles of the launch pad or the flight path unless specified conditions can be met.

**Do not launch** if field mill instrument readings within five nautical miles of the launch pad or the flight

path exceed +/- 1,500 volts per meter for 15 minutes after they occur, or +/- 1,000 volts per meter if specified criteria can be met.



**Do not launch** if an attached thunderstorm anvil is within 10, five, or three nautical miles of the flight path, unless time-associated criteria specified for these three distances can be met.

**Do not launch** if a detached thunderstorm anvil cloud is between 10 nautical miles and three nautical miles of the vehicle's flight path, unless temperature and time-associated criteria have been met.

**Do not launch** if the flight path will carry the vehicle through or within three nautical miles of a detached thunderstorm anvil cloud unless temperature, radar and time-associated criteria for this distance have been met.

**Do not launch** if a thunderstorm debris cloud is within three nautical miles or fly through a debris cloud for three hours unless specific criteria have been met.

**Do not launch** through disturbed weather that has clouds that extend into freezing temperatures and contain moderate or greater precipitation, or launch within five nautical miles of disturbed weather within the flight path unless specified criteria can be met.

**Do not launch** through cumulus clouds formed as the result of or directly attached to a smoke plume unless specified criteria are met.

National Aeronautics and Space Administration

John F. Kennedy Space Center Kennedy Space Center, FL 32899

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