



ACTIVITY: Weather Console (Launch Command Officer)

Big Question: Will the weather permit the Space Shuttle to launch?

Look at all the messages that you receive about the weather and write yes or no for launch based on the information you receive. Your evaluation of the information will determine whether the weather conditions will permit, delay, or scrub the launch.

Time	Does the Cloud Radar permit Launch?	Does the Precipitation Radar permit Launch?	Does the Precipitation Digital Display permit launch?	Do the Temp and sky conditions permit launch?	Does the Air Pressure permit launch?	Do the wind conditions permit launch?	YES in all columns to permit launch. Permit, Hold, Scrub?
Example	Yes	Yes	10 naut mi	Yes	Yes	Yes	Permit

Wind and Pressure Weather Table

Direction	Barometric Pressure Reading	Barometric Pressure Trend	Weather Conditions	Launch Yes/No
SW to NW	30.10 to 30.20	and steady	Fair with slight temperature change for 1 to 2 days	Yes
	30.10 to 30.20	and rising rapidly	Fair, followed within 2 days by rain	Yes
	30.20 and above	and stationary	Continued fair, with no decided temperature change	Yes
	30.20 and above	and falling slowly	Slowly rising temperature and fair for 2 days	Yes
S to SE	30.10 to 30.20	and falling slowly	Rain within 24 hours	Yes
	30.10 to 30.20	and falling rapidly	Wind increasing in force, with rain within 12 to 24 hours	NO
S to E	29.80 or below	and falling rapidly	Severe storm imminent, followed within 24 hours, by clearing, and in winter by colder	NO
SE to NE	30.10 to 30.20	and falling slowly	Rain in 12 to 18 hours	Yes
	30.10 to 30.20	and falling rapidly	Increasing wind, and rain within 12 hours	Yes
	30.00 or below	and falling slowly	Rain will continue 1 to 2 days	Yes
	30.00 or below	and falling rapidly	Rain, with high wind, followed, within 36 hours by clearing, and in winter by colder	NO
E to NE	30.10 and above	and falling slowly	In summer, with light winds, rain may not fall for several days	Yes
	30.10 and above	and falling slowly	In winter, rain within 24 hours	Yes
	30.10 and above	and falling rapidly	In summer, rain probably within 12 to 24 hours	NO
	30.10 and above	and falling rapidly	In winter, rain or snow, with increasing winds, will often set in when the barometer begins to fall and the wind sets in from the NE	NO
E to N	29.80 or below	and falling rapidly	Severe northeast gale and heavy precipitation; in winter, heavy snow, followed by a cold wave	NO
S to SW	30.00 or below	and rising slowly	Clearing within a few hours, and fair for several days	Yes
Going to W	29.80 or below	and rising rapidly	Clearing and colder	Yes