Date:	0	മ	A CO
	1007		,



ACTIVITY: Weather Console (Weather Technician)

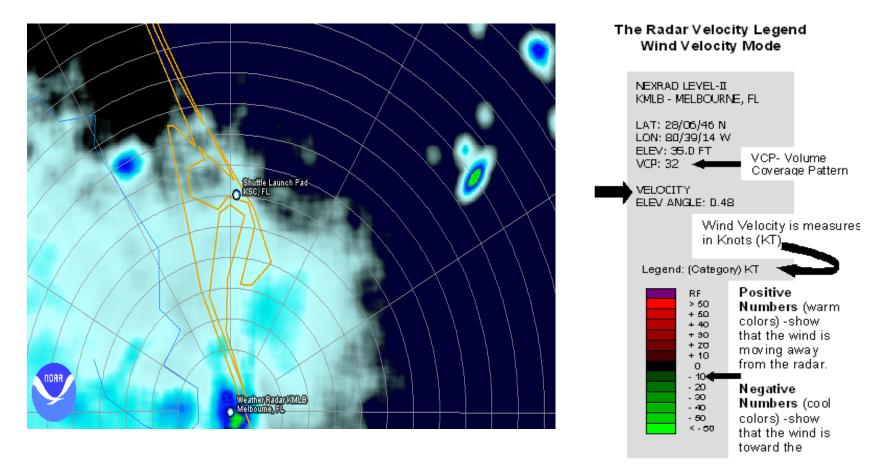
Big Question: Based on the wind speed and direction will the weather clear the launch pad and the flight path in time to launch?

Use the weather data from the wind speed conversion sheet to look at the radar to determine if the weather will clear the launch pad and the flight path in time to launch. Share your information with the meteorologist to determine whether the weather conditions will permit, delay, or scrub the launch.

Time	Convert wind from kts to miles/hr	Multiply mi/hr to mi/(fra of launch to get the nu weather will move be	mber of miles the	Record wind direction	Observe radar and weather spokes. Will weather clear in time to launch? Yes/No
Example	15kt x 1.1508 = 17.262 mi/hr	17.262 X 20/60= 17.262 X .33 =	5.23 miles	N to S	Yes
	kt x 1.1508 =	17.262 X/60= 17.262 X=	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X =	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X =	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X =	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X=	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X=	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X=	miles		
	kt x 1.1508 =	17.262 X/60= 17.262 X =	miles		
	kt x 1.1508 = mi/hr	17.262 X/60= 17.262 X =	miles		

How to read direction and distance using radar data (sent from the Melbourne NWS Station):

Use the legend to understand the radar image. When you are charting speed and direction use the spokes and range rings. The range rings start 10 miles from Melbourne moving out toward the KSC Launch Pad. There are 5 miles between each range ring.



Velocity - This product is used to estimate wind speed and direction.

Weather Technician:	Date:	900	Œ
---------------------	-------	-----	---

Big Question: Is it raining on the launch pad or in the flight path?

Fill in the weather data on the data-recording sheet from the Digital Weather Display. To launch there can be no precipitation at the launch pad or within the flight path. Write yes or no to determine if the weather conditions are within the weather launch commit criteria. Share your information with the meteorologist to determine whether the weather conditions will permit, delay, or scrub the launch.

Time	Humidity	Pressure high 30+ or low 29.95-	Sky Conditions	Weather	Is the precipitation within Launch Commit Ranges? Launch? Yes/No
Example	90%	29.90	Cloudy	Rain	No

Fill in the weather data on the data-recording sheet from the Digital Weather Display. Share your information with the meteorologist to determine whether the weather conditions will permit, delay, or scrub the launch.

Time	Temperature	Is the temperature < 99 degrees Fahrenheit (F) for more than 30 minutes? > 48 degrees F?	Sky Conditions	Temp and sky conditions within launch commit ranges? Yes/No
Example	70°F	<48< 70°<99<	Clear	Yes
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		
		< 48 << 99 <		

Weather Technician:

Date:	8	0	0	0
-------	---	---	---	---

Big Question: Will clouds stop the launch?

Does the digital display show that there are clouds? If yes, look at the radar to fill in the chart. Share your information with the Meteorologist to determine whether the weather conditions will permit, delay, or scrub the launch.

Time	Cloud thickness Transparent (see-through) or Opaque (solid)	Transparent = yes Opaque = no	Distance in miles of the cloud from the flight path	Greater than 5 = yes Less than or equal to 5 = no Launch? Yes/No 4	Do the clouds hold precipitation/ lightning or thunder?	You must have yes in column 4 and no in 5 to launch Launch? Yes/No
Example	Opaque	No	10 miles	Yes	No	Yes

Weather Technician:	Date:	900)(b
---------------------	-------	-----	----	---

Big Question: Is it raining on the launch pad or in the flight path?

Fill in the weather data on the data-recording sheet from the Radar Display. To launch there can be no precipitation at the launch pad or within the flight path. Share your information with the Meteorologist to determine whether the weather conditions will permit, delay, or scrub the launch.

Time	Clouds	Intensity of Precipitation (color)	Intensity of precipitation (dBZ-decibels)	Is precipitation within launch commit ranges Launch? Yes/No
Example	Yes	Green	30 dBZ	No