



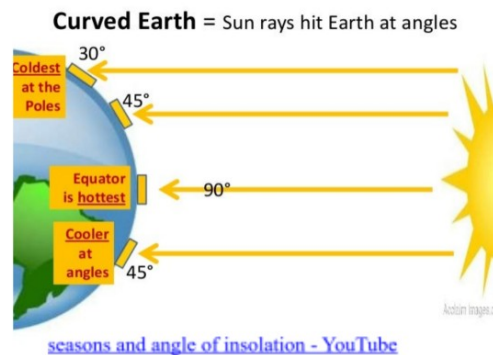
**Wind** -is moving air caused by the sun. The tilt of the earth causes uneven heating of the earth's atmosphere and what makes air move.

[Global winds and currents | Middle school Earth and space science | Khan Academy \(youtube.com\)](#)

[Weather 101: What Causes Wind? \(youtube.com\)](#)

[Where does Wind come from? + more videos | #aumsum #kids #science #education #children \(youtube.com\)](#)

Warm air weighs less than cool air because the particles are spread out and it will rise. When warm air leaves an area, the cool air moves in. When the warm air moves away from the Earth's surface, it will start to cool and sink back down. All this moving is what we call wind.



## Recall

**Meteorologists** are scientist that predict and monitor weather. they monitor changes in pressure as one indication of upcoming weather changes.

Falling pressure generally indicates that stormy weather is on the way.

Rising pressure usually indicates the approach fair weather.

# Meteorologists

[Weather 101 for kids - with Meteorologist JD Rudd \(youtube.com\)](#)

5 min

Meteorologists are atmospheric scientists. They continually analyze vast amounts of data, including surface and upper air observations of temperature, wind, pressure, and humidity, as well as weather satellite data, radar data, lightning strikes, and data from weather models.

Based on this information, they might issue a warning or produce a public, aviation, or marine forecast.

But not all meteorologists forecast the weather: other specialties include research into atmospheric chemistry, biological impacts, and computer modelling.

[Weather Channels: Crash Course Kids #34.2 \(youtube.com\)](#)



5 min

Weather Channels: Crash Course Kids #34.2



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## Jet Stream

[What is the jet stream and why does it matter? \(youtube.com\)](#)

Jet Streams are strong winds that blow from the west to the east around the world in circular motion. The wind is 6000 to 12 000 meters above the Earth's surface and can travel at 250 km/h.

Jet Streams can move big masses of air and really affect weather.

[What is the jet stream and how does it affect the weather? \(youtube.com\)](#)

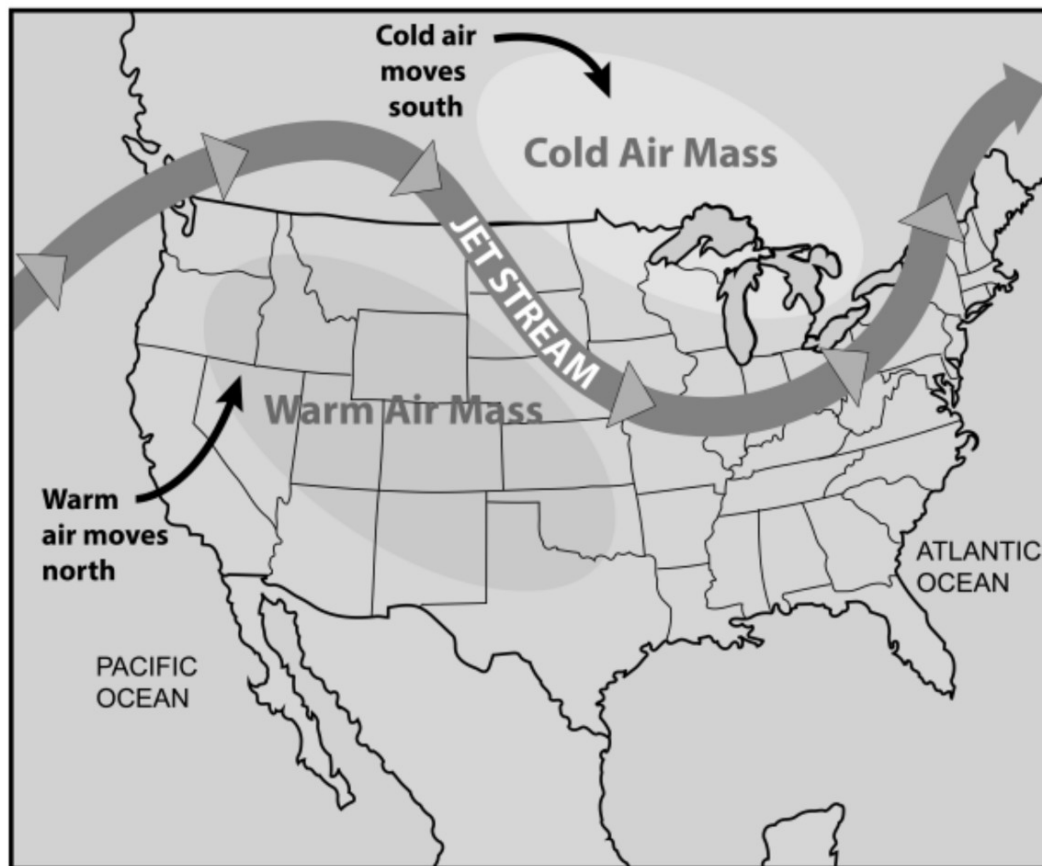


In Canada, the polar jet stream is responsible for many of our weather patterns. It is a narrow band of fast-moving air in the upper atmosphere that can help direct our weather systems. It also divides warm and cold air — cold air remains to the north of it and warm air to the south.

[How jet streams cause major weather events \(youtube.com\)](#)

The map below of the united states show it is in the summer since the jet stream shows US in warm weather.

In the winter the jet stream could bring snow and freezing rain even to Florida.



*let's learn about*  
**JET STREAMS**

Name: \_\_\_\_\_

Find 10 words in the wordsearch. Write them on the lines provided.

W	I	N	D	K	L	S	T	G	E
A	K	S	U	R	F	A	C	E	A
R	I	D	W	X	S	F	G	E	S
M	L	S	O	S	N	O	W	W	T
S	O	D	R	S	F	S	F	R	S
F	M	G	L	H	J	U	W	L	S
J	E	J	D	I	I	M	T	P	O
I	T	I	G	E	O	M	S	I	U
J	E	O	N	W	U	E	A	F	T
G	R	T	S	S	E	R	D	E	H
F	S	F	W	C	O	O	L	E	R

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