

# Wind Team Upper Air Wind Speed - Day 1

Jet streams are narrow corridors of very strong winds at altitudes from 30,000 to 50,000 feet. They blow in a wavy pattern from west to east across North America at speeds exceeding 90 knots.

The shape of the jet stream is important in weather forecasting. Troughs ( U ) of low pressure air that dip south bring cold, cloudy weather. Ridges (  $\cap$  ) of high pressure air that rise north bring warm, clear weather.

Circle each number with the corresponding color in the key. DO NOT shade in the circle. Do you notice a trough or ridge? What is the position of the jet stream in relation to New York City (indicated by a star)? How might the shape of the jet stream affect the weather in New York City?

KEY	
Color	Knots
Red	$\geq 150$
Orange	130-149
Blue	110-129
Green	90-109
Don't Color	$< 90$

