

Wind Team Graph Day 2 - New York City

Surface winds blow across the Earth at altitudes from 0 to approximately 3,000 feet.

First, finish the line graph of surface wind speeds for New York City on day 2. Ask your teacher for the data. Is the wind speed increasing or decreasing?



Next, calculate wind chills. Use the Wind Chill Index chart below and your graph data sheet. Are there dangerous wind chills in New York City on day 2? If so, when do they occur?

Wind Chill Index Chart

		Surface Temperature (°F)											
		40-36	35-31	30-26	25-21	20-16	15-11	10-6	5-1	0-4	-5-9	-10-14	-15-19
Wind Speed (knots)	1-5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28
	6-10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35
	11-15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39
	16-20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42
	21-25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44
	26-30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46
	31-35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48
	36-39	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50
Frostbite Occurs in 15 Minutes or Less													