Wind Team Upper Air Wind Speed - Day 3

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 (∩) 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)? What is your forecast for the New Year's Eve celebration?

	Upper Air Wind Speed (knots)									Day 3									Analysis for 12Z 30 DEC 00						
КЕҮ		55	54	56 32	25	28	42	61	68	64	55	43	37	33	28	12	7	9	5	10	18	29	47		
Color	Knots		43	44	44 42	40	37	36	65	84	85	71	41	27	27	26	15	9	5	6	25	48	62	79	
Red	≥150		39	39	41 47	49	35	37	67	90	93	81	47	-22-	~~~	21	20	17	3	_13	39	78	97	101	
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Blue	110-129		50	/	27 52	62	64	56	59	81		91			22	20	22	7	5	23	58	107	137	144	
Green	90-109		\$ 40	43	46 59	63	60	51	56	70	97	99	81	70	43	29	22	11	21	44 1	75	117	145	156	
Don't Color	<90		37	40	55 63	62	52	48	54	67	90	97	102	396	71	29	35	30	47	75	105	121	133	140	
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			20	21	27 43	49	51	53	56	65	74	72	74	93	109	108	90	97	122	134	136	129	132	135	
			16	18	23 33	37	41	48	51	54	61	^{~68}	~7 <u>5</u> ~	101	112	108	106	115	134	144	130	118	120	123	
			14	17	24 30	34	40	44	44	42	47	59	73	94	97	90	90	106	130	132	. Mo	106	106	105	
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