



For Southern New England

→ As of 4:15 PM Monday, March 13, 2023

Important Updates

➔ **Remaining Winter Storm Watch areas (CT River Valley, Eastern MA) converted to Winter Weather Advisory**

→ Coastal Flood Watch converted to Coastal Flood Advisory

- Winter Storm Warning
- High Wind Warning
- Storm Warning
- Gale Warning
- Winter Weather Advisory
- Coastal Flood Advisory
- Small Craft Advisory
- Wind Advisory
- Coastal Flood Watch

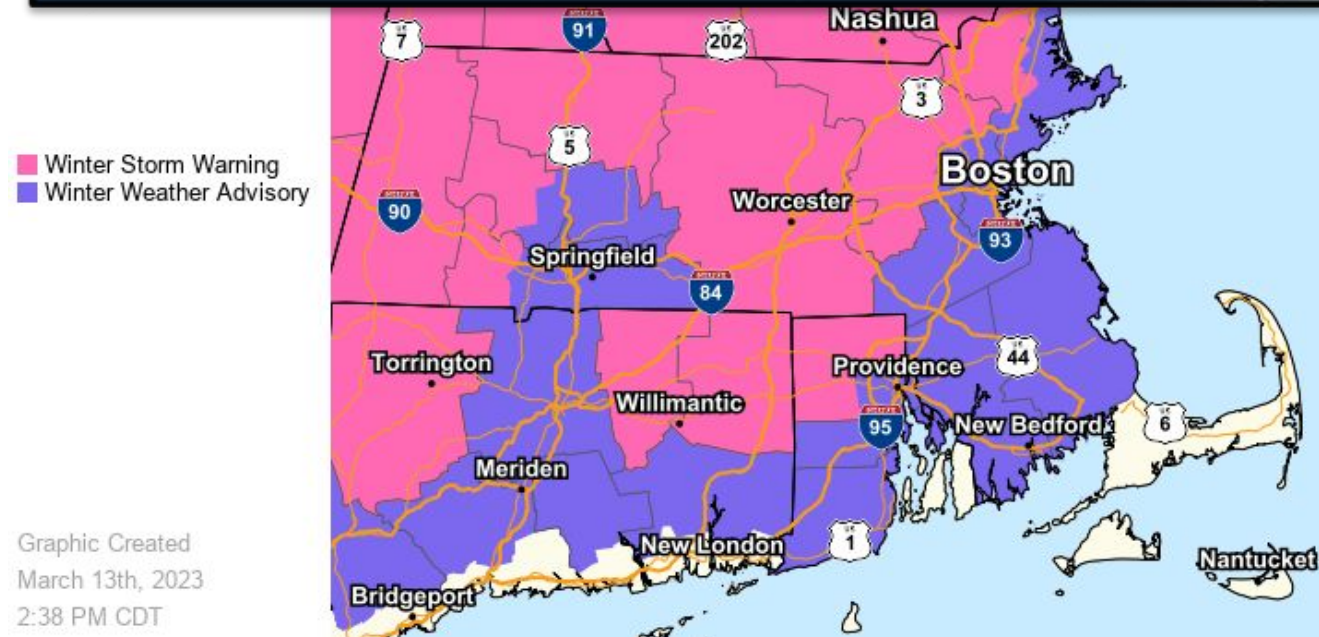
A map of New England, including parts of Maine, New Hampshire, Massachusetts, Connecticut, Rhode Island, and New Jersey. Major cities labeled include Nashua, Boston, Worcester, Springfield, Torrington, Willimantic, Meriden, New London, Bridgeport, Providence, New Bedford, and Nantucket. Major highways shown include I-91, I-90, I-84, I-93, I-95, I-1, I-3, I-44, I-6, I-7, I-8, I-9, I-10, I-11, I-12, I-13, I-14, I-15, I-16, I-17, I-18, I-19, I-20, I-21, I-22, I-23, I-24, I-25, I-26, I-27, I-28, I-29, I-30, I-31, I-32, I-33, I-34, I-35, I-36, I-37, I-38, I-39, I-40, I-41, I-42, I-43, I-44, I-45, I-46, I-47, I-48, I-49, I-50, I-51, I-52, I-53, I-54, I-55, I-56, I-57, I-58, I-59, I-60, I-61, I-62, I-63, I-64, I-65, I-66, I-67, I-68, I-69, I-70, I-71, I-72, I-73, I-74, I-75, I-76, I-77, I-78, I-79, I-80, I-81, I-82, I-83, I-84, I-85, I-86, I-87, I-88, I-89, I-90, I-91, I-92, I-93, I-94, I-95, I-96, I-97, I-98, I-99, I-100, I-101, I-102, I-103, I-104, I-105, I-106, I-107, I-108, I-109, I-110, I-111, I-112, I-113, I-114, I-115, I-116, I-117, I-118, I-119, I-120, I-121, I-122, I-123, I-124, I-125, I-126, I-127, I-128, I-129, I-130, I-131, I-132, I-133, I-134, I-135, I-136, I-137, I-138, I-139, I-140, I-141, I-142, I-143, I-144, I-145, I-146, I-147, I-148, I-149, I-150, I-151, I-152, I-153, I-154, I-155, I-156, I-157, I-158, I-159, I-160, I-161, I-162, I-163, I-164, I-165, I-166, I-167, I-168, I-169, I-170, I-171, I-172, I-173, I-174, I-175, I-176, I-177, I-178, I-179, I-180, I-181, I-182, I-183, I-184, I-185, I-186, I-187, I-188, I-189, I-190, I-191, I-192, I-193, I-194, I-195, I-196, I-197, I-198, I-199, I-200, I-201, I-202, I-203, I-204, I-205, I-206, I-207, I-208, I-209, I-210, I-211, I-212, I-213, I-214, I-215, I-216, I-217, I-218, I-219, I-220, I-221, I-222, I-223, I-224, I-225, I-226, I-227, I-228, I-229, I-230, I-231, I-232, I-233, I-234, I-235, I-236, I-237, I-238, I-239, I-240, I-241, I-242, I-243, I-244, I-245, I-246, I-247, I-248, I-249, I-250, I-251, I-252, I-253, I-254, I-255, I-256, I-257, I-258, I-259, I-260, I-261, I-262, I-263, I-264, I-265, I-266, I-267, I-268, I-269, I-270, I-271, I-272, I-273, I-274, I-275, I-276, I-277, I-278, I-279, I-280, I-281, I-282, I-283, I-284, I-285, I-286, I-287, I-288, I-289, I-290, I-291, I-292, I-293, I-294, I-295, I-296, I-297, I-298, I-299, I-300, I-301, I-302, I-303, I-304, I-305, I-306, I-307, I-308, I-309, I-310, I-311, I-312, I-313, I-314, I-315, I-316, I-317, I-318, I-319, I-320, I-321, I-322, I-323, I-324, I-325, I-326, I-327, I-328, I-329, I-330, I-331, I-332, I-333, I-334, I-335, I-336, I-337, I-338, I-339, I-340, I-341, I-342, I-343, I-344, I-345, I-346, I-347, I-348, I-349, I-350, I-351, I-352, I-353, I-354, I-355, I-356, I-357, I-358, I-359, I-360, I-361, I-362, I-363, I-364, I-365, I-366, I-367, I-368, I-369, I-370, I-371, I-372, I-373, I-374, I-375, I-376, I-377, I-378, I-379, I-380, I-381, I-382, I-383, I-384, I-385, I-386, I-387, I-388, I-389, I-390, I-391, I-392, I-393, I-394, I-395, I-396, I-397, I-398, I-399, I-400, I-401, I-402, I-403, I-404, I-405, I-406, I-407, I-408, I-409, I-410, I-411, I-412, I-413, I-414, I-415, I-416, I-417, I-418, I-419, I-420, I-421, I-422, I-423, I-424, I-425, I-426, I-427, I-428, I-429, I-430, I-431, I-432, I-433, I-434, I-435, I-436, I-437, I-438, I-439, I-440, I-441, I-442, I-443, I-444, I-445, I-446, I-447, I-448, I-449, I-450, I-451, I-452, I-453, I-454, I-455, I-456, I-457, I-458, I-459, I-460, I-461, I-462, I-463, I-464, I-465, I-466, I-467, I-468, I-469, I-470, I-471, I-472, I-473, I-474, I-475, I-476, I-477, I-478, I-479, I-480, I-481, I-482, I-483, I-484, I-485, I-486, I-487, I-488, I-489, I-490, I-491, I-492, I-493, I-494, I-495, I-496, I-497, I-498, I-499, I-500, I-501, I-502, I-503, I-504, I-505, I-506, I-507, I-508, I-509, I-510, I-511, I-512, I-513, I-514, I-515, I-516, I-517, I-518, I-519, I-520, I-521, I-522, I-523, I-524, I-525, I-526, I-527, I-528, I-529, I-530, I-531, I-532, I-533, I-534, I-535, I-536, I-537, I-538, I-539, I-540, I-541, I-542, I-543, I-544, I-545, I-546, I-547, I-548, I-549, I-550, I-551, I-552, I-553, I-554, I-555, I-556, I-557, I-558, I-559, I-560, I-561, I-562, I-563, I-564, I-565, I-566, I-567, I-568, I-569, I-570, I-571, I-572, I-573, I-574, I-575, I-576, I-577, I-578, I-579, I-580, I-581, I-582, I-583, I-584, I-585, I-586, I-587, I-588, I-589, I-590, I-591, I-592, I-593, I-594, I-595, I-596, I-597, I-598, I-599, I-600, I-601, I-602, I-603, I-604, I-605, I-606, I-607, I-608, I-609, I-610, I-611, I-612, I-613, I-614, I-615, I-616, I-617, I-618, I-619, I-620, I-621, I-622, I-623, I-624, I-625, I-626, I-627, I-628, I-629, I-630, I-631, I-632, I-633, I-634, I-635, I-636, I-637, I-638, I-639, I-640, I-641, I-642, I-643, I-644, I-645, I-646, I-647, I-648, I-649, I-650, I-651, I-652, I-653, I-654, I-655, I-656, I-657, I-658, I-659, I-660, I-661, I-662, I-663, I-664, I-665, I-666, I-667, I-668, I-669, I-670, I-671, I-672, I-673, I-674, I-675, I-676, I-677, I-678, I-679, I-680, I-681, I-682, I-683, I-684,



Active Headlines

March 13, 2023
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Winter Weather Hazards



Marine / Coastal Hazards



Wind Related Hazards



Flooding Hazards







National Weather Service
Boston / Norton, MA





Main Points

March 13, 2023
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Hazard	Impacts	Location	Timing
Wind/ Damaging Wind 	25-35 mph w/ gusts 50-60 mph Tree limbs/power lines/ isolated trees downed Power outages likely	Eastern MA	Late tonight into Wednesday Peaking Tuesday Afternoon/Evening Diminishing below 30 mph Wednesday night
Snow 	Snow loading on trees/power lines; morning commute (west) and evening commute (east) Power outages likely	Anywhere that receives 4+ inches of heavy, wet snow	Tonight (higher terrain) through Tuesday night Lingering into Wed. AM in eastern MA
Marine 	Storm conditions with 12-18 ft seas eastern MA; Gales with 5-10 ft seas RI coast	Eastern MA waters	Tonight through Wednesday
Coastal Flooding 	Widespread minor coastal flooding	Eastern MA from Cape Cod northward	Three high tide cycles, from 4-5 AM Tuesday through 5-6 AM Wednesday

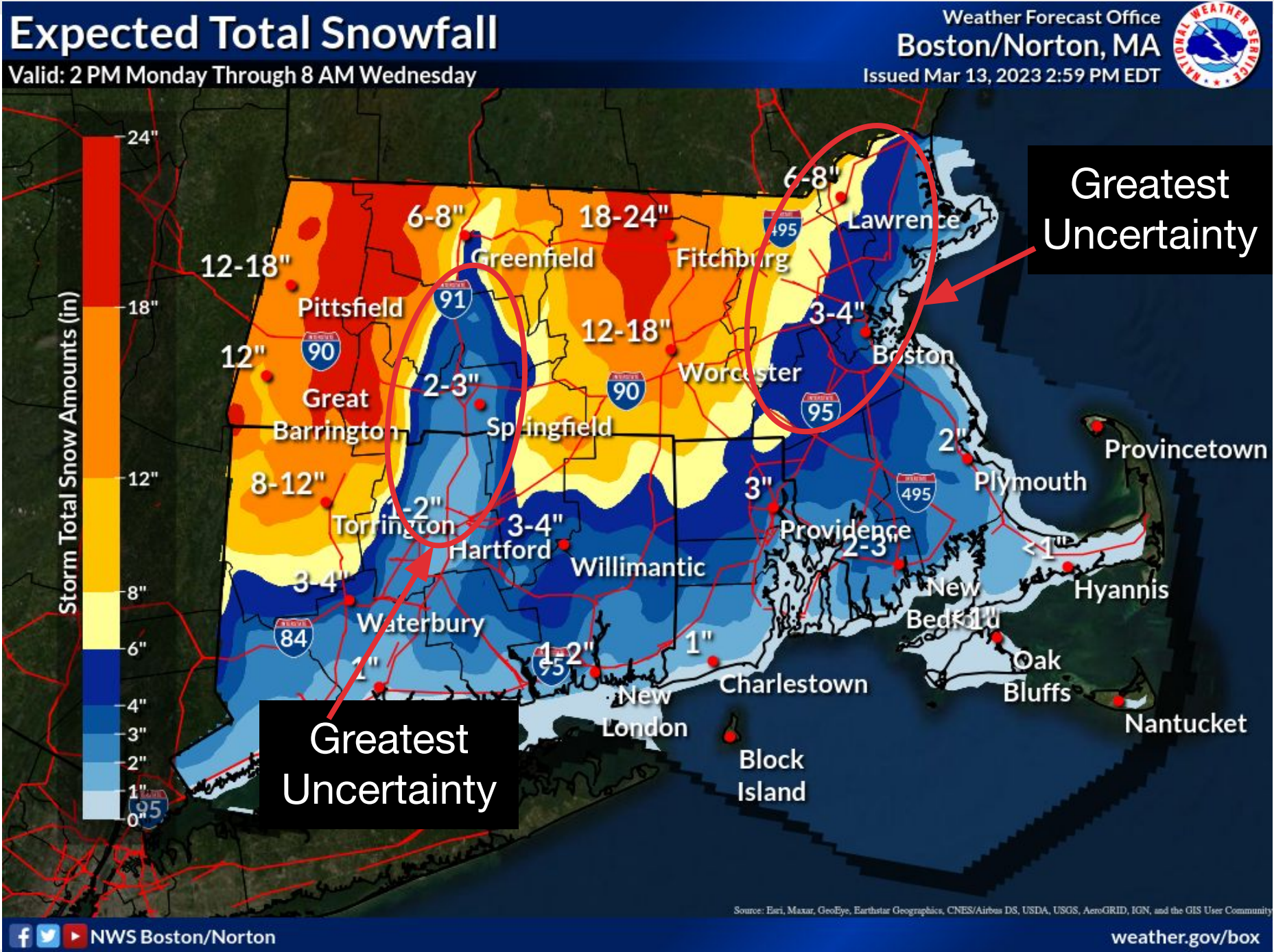


Forecast Storm Total Snowfall

March 13, 2023
4:17 PM

Snowfall amounts will vary greatly depending on elevation

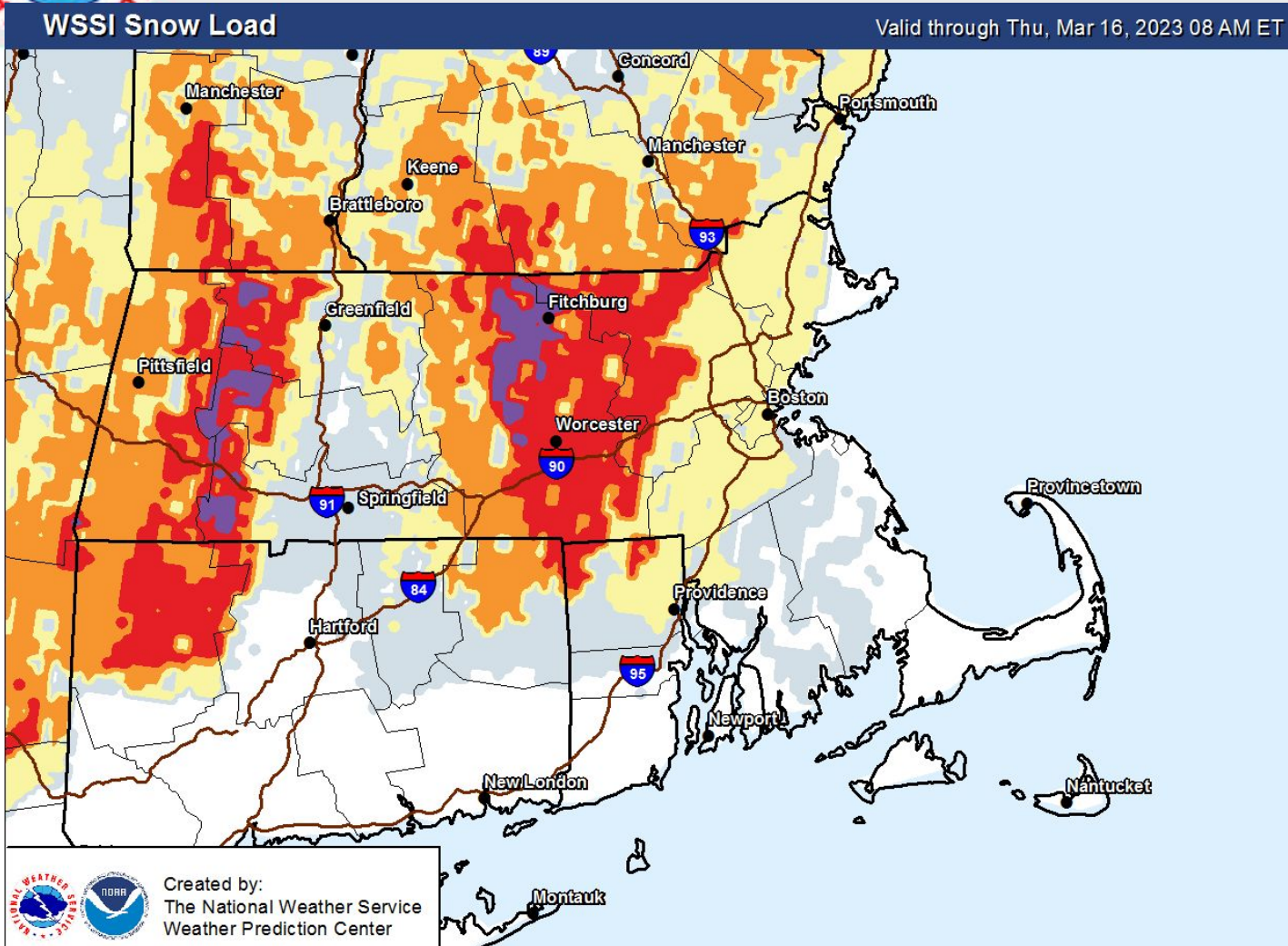
Snowfall gradient in the greatest uncertainty areas could shift east or west depending on exact storm track and intensity





Snow Loading on Trees/Powerlines

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Potential Winter Storm Impacts		Winter Storm Severity Index (WSSI)		Issued: Mon, Mar 13, 2023 11 AM ET	
Winter Weather Area Expect winter weather. • Winter driving conditions. Drive carefully.	Minor Impacts Expect a few inconveniences to daily life. • Winter driving conditions. Use Caution while driving.	Moderate Impacts Expect disruptions to daily life. • Hazardous driving conditions. Use extra caution while driving. • Closures and disruptions to infrastructure may occur.	Major Impacts Expect considerable disruptions to daily life. • Dangerous or impossible driving conditions. Avoid travel if possible. • Widespread closures and disruptions to infrastructure may occur.	Extreme Impacts Expect substantial disruptions to daily life. • Extremely dangerous or impossible driving conditions. Travel is not advised. • Extensive and widespread closures and disruptions to infrastructure may occur. • Life-saving actions may be needed.	

Winter Storm Severity Index (WSSI)

<https://www.wpc.ncep.noaa.gov/wwd/wssi/wssi.php>

Snow Load Component highlights the higher elevation regions with the highest risk of impacts from significant accumulations of wet/heavy snow on trees and powerlines

Expectation is that minor impacts will occur with at least 4" of snow





Precipitation Type 10 PM Monday

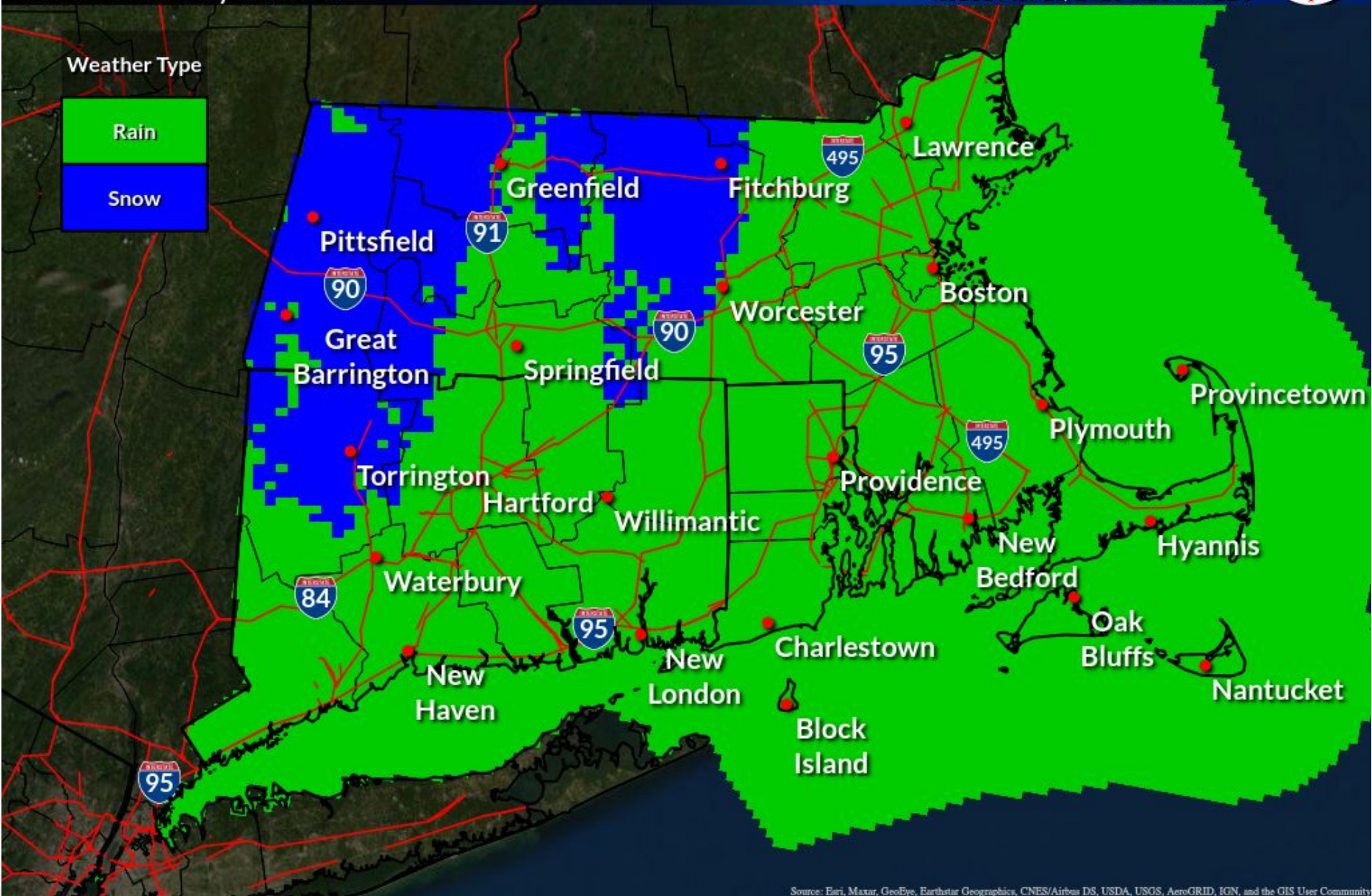
March 13, 2023
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Snow Mainly for High Elevations Overnight

Expected Precipitation Type

Valid 10PM Monday March 13

Weather Forecast Office
Boston/Norton, MA
Issued Mar 13, 2023 3:26 PM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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National
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NWS Boston/Norton

National Weather Service
Boston / Norton, MA



Precipitation Type 8 AM Tuesday

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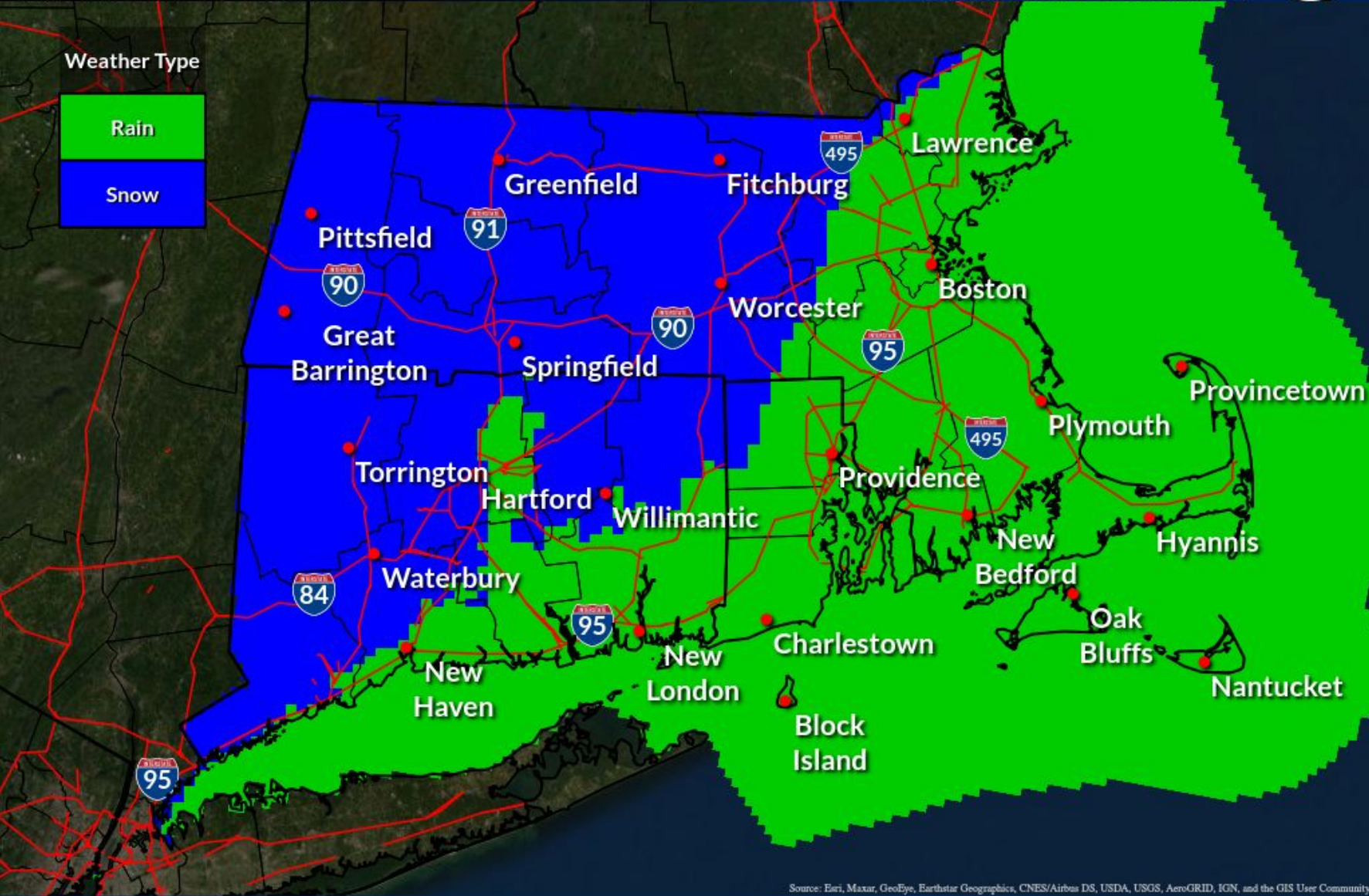
Rain Changes to Snow Across Western MA/northern CT by 8 AM

Expected Precipitation Type

Valid 08AM Tuesday March 14

Weather Forecast Office
Boston/Norton, MA

Issued Mar 13, 2023 3:27 PM EDT



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Precipitation Type Noon Tuesday

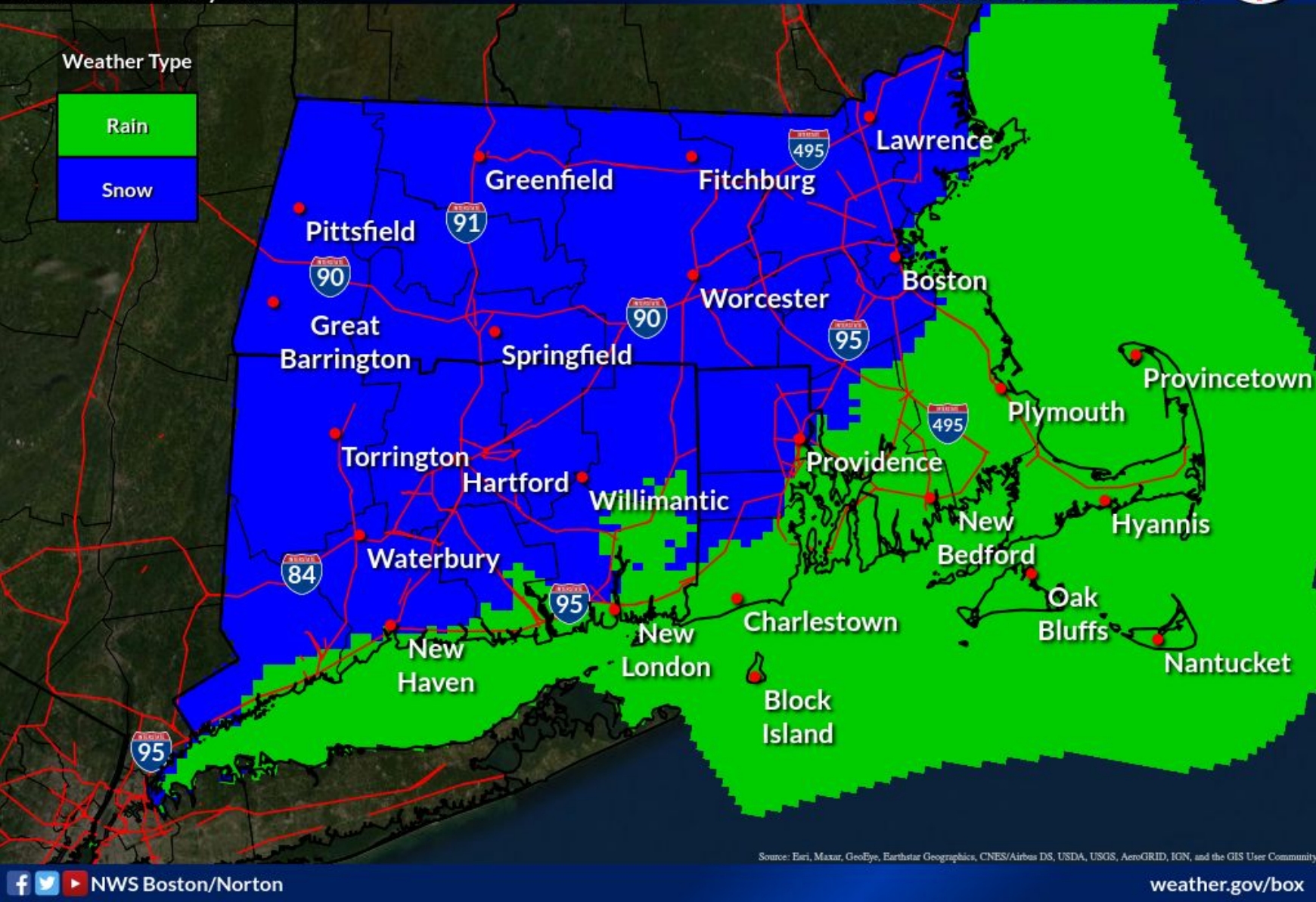
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Rain Changes to Snow at Boston/Providence by Noon Tuesday

Expected Precipitation Type

Valid 12PM Tuesday March 14

Weather Forecast Office
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Precipitation Type 5PM Tuesday

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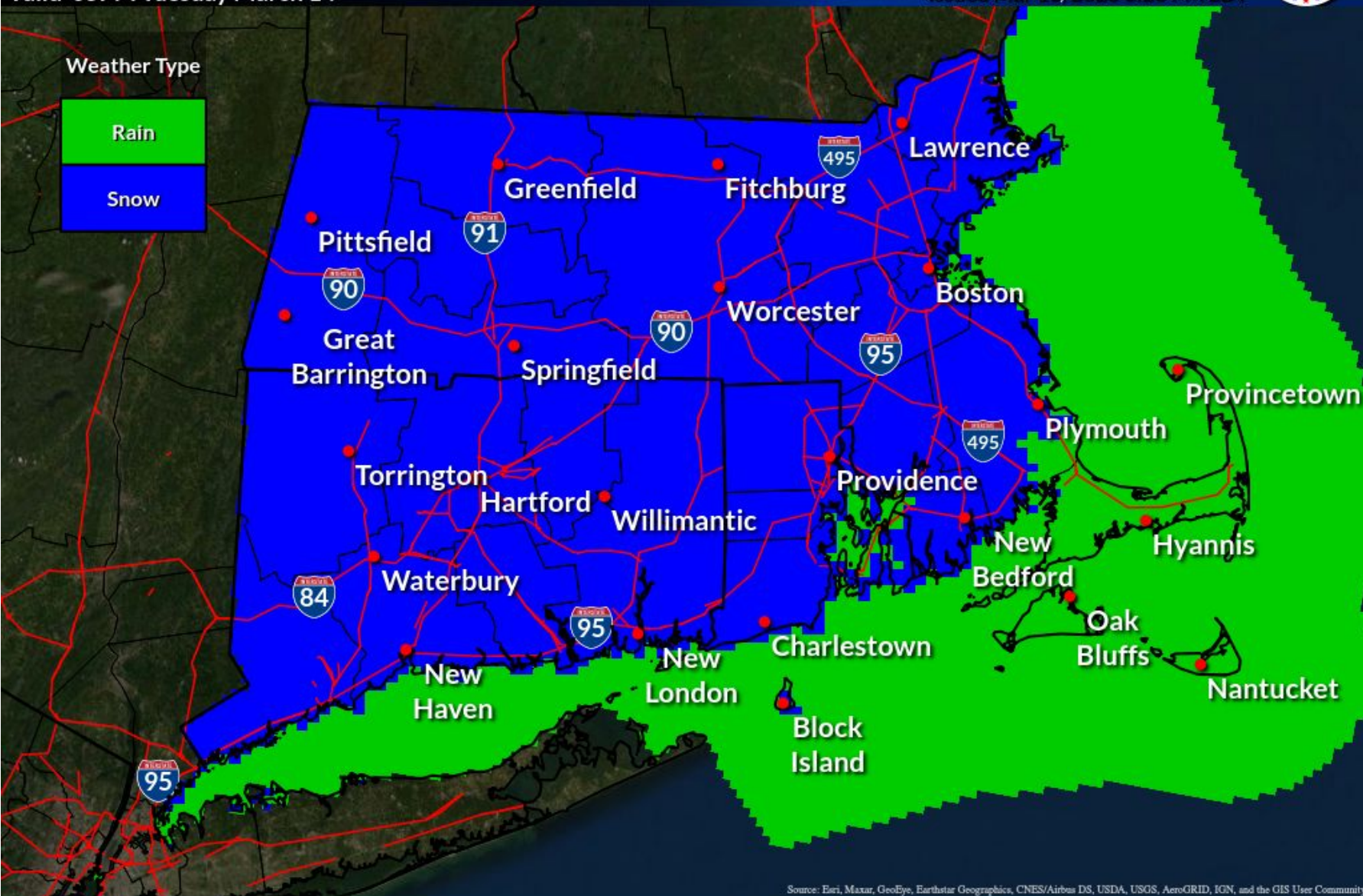
Snow Expected Down to the South Coast by 5PM. Later for Cape Cod/Islands

Expected Precipitation Type

Valid 05PM Tuesday March 14

Weather Forecast Office
Boston/Norton, MA

Issued Mar 13, 2023 3:28 PM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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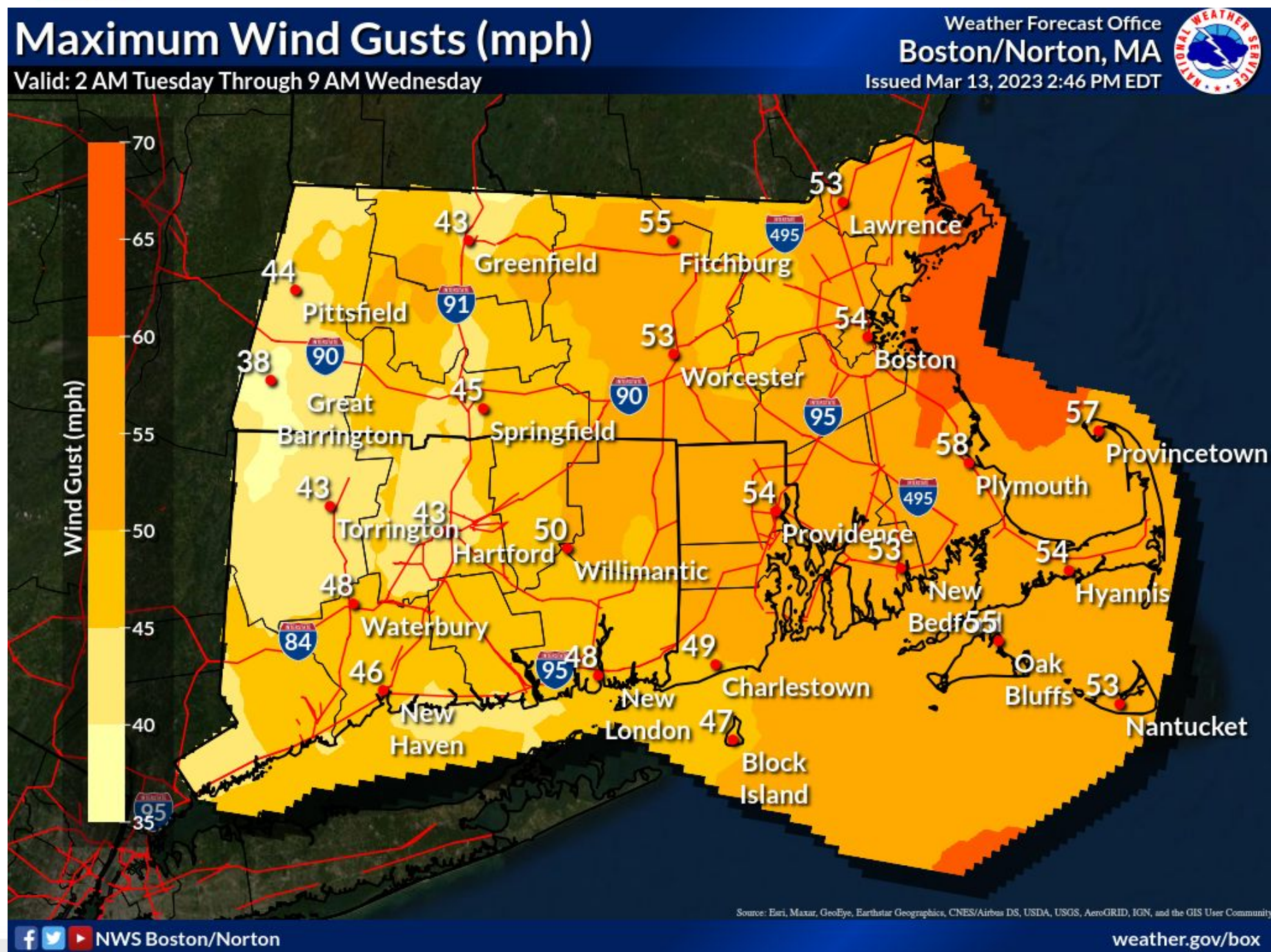
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Forecast Wind Gusts

March 13, 2023
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Timing:

Strongest Gusts

(east/northeast direction)

- South Shore, Cape and Islands generally Tuesday morning
- Northeast MA/Cape Ann Tuesday afternoon

Another round of strong winds
Tuesday night (northerly direction)

Wind Gusts drop below 30-35
mph late Wednesday afternoon



NWS Boston/Norton



National Oceanic and
Atmospheric Administration

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Temperature and Wind Gust Tables

March 13, 2023
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Maximum Temperature Forecast

	3/13 Mon 6pm	3/14 Tue				3/15 Wed				3/16 Thu		
		12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm
Boston	40	40	39	37	34	33	37	42	40	35	40	47
Gloucester	40	39	39	37	36	33	38	41	39	34	38	44
Hartford	42	39	37	36	34	33	38	41	39	34	40	48
Hyannis	41	41	42	41	38	37	38	41	40	36	39	44
Lowell	41	39	38	34	32	33	37	40	39	33	39	46
Nantucket	41	42	42	41	39	37	38	41	41	37	39	43
New Bedford	41	41	41	39	35	33	39	43	40	34	41	48
New Haven	42	42	38	36	35	32	37	42	41	34	41	49
Newport	41	41	41	37	34	33	38	41	39	35	41	46
Pittsfield	37	34	33	33	32	30	31	33	33	28	32	38
Providence	42	40	40	36	34	33	38	41	40	34	41	48
Springfield	41	38	37	35	33	33	37	39	38	33	39	46
Worcester	39	36	35	33	32	31	35	37	36	31	36	44

*Table values in °F
**Created: 4 pm EDT Mon 3/13/2023
***Values are maximums over the period beginning at the time shown.

Maximum Wind Gust Forecast

	3/13 Mon 6pm	3/14 Tue				3/15 Wed				3/16 Thu			Maximum
		12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	
Boston	23↙	37↙	41↙	43↙	40↓	39↓	35↘	33↘	32↘	28↘	22↘	21↘	43
Gloucester	26↙	38↙	49↙	54↙	49↓	49↓	45↘	36↘	33↘	31↘	26↘	20↘	54
Hartford	20↙	24↙	26↓	32↓	33↘	31↘	39↘	41↘	39↘	28↘	22↘	22↘	41
Hyannis	33↙	41↙	47↙	44↙	32↘	44↘	44↘	38↘	32↘	32↘	28↘	24↘	47
Lowell	18↙	29↙	38↙	40↙	40↓	38↓	30↘	33↘	32↘	25↘	22↘	22↘	40
Nantucket	33↙	45↙	46↙	38↘	35↘	47↘	47↘	39↘	33↘	32↘	30↘	24↘	47
New Bedford	29↙	37↙	41↙	36↙	37↘	39↘	37↘	35↘	30↘	28↘	23↘	21↘	41
New Haven	28↙	28↙	21↓	31↘	46↘	46↘	46↘	39↘	37↘	25↘	21↘	21↘	46
Newport	31↙	38↙	37↙	32↘	41↘	41↘	36↘	35↘	32↘	29↘	23↘	21↘	41
Pittsfield	20↙	29↙	31↙	33↓	43↘	44↘	44↘	40↘	36↘	24↘	17↘	16↘	44
Providence	21↙	28↙	32↙	33↓	39↘	38↘	33↘	36↘	33↘	25↘	22↘	22↘	39
Springfield	20↙	28↙	32↙	35↓	35↓	35↘	40↘	40↘	38↘	28↘	21↘	21↘	40
Worcester	21↙	30↙	35↙	38↙	41↘	38↘	35↘	36↘	35↘	30↘	23↘	23↘	41

*Table values in mph
**Created: 4 pm EDT Mon 3/13/2023
***Values are maximums over the period beginning at the time shown.





Coastal Flood Forecast

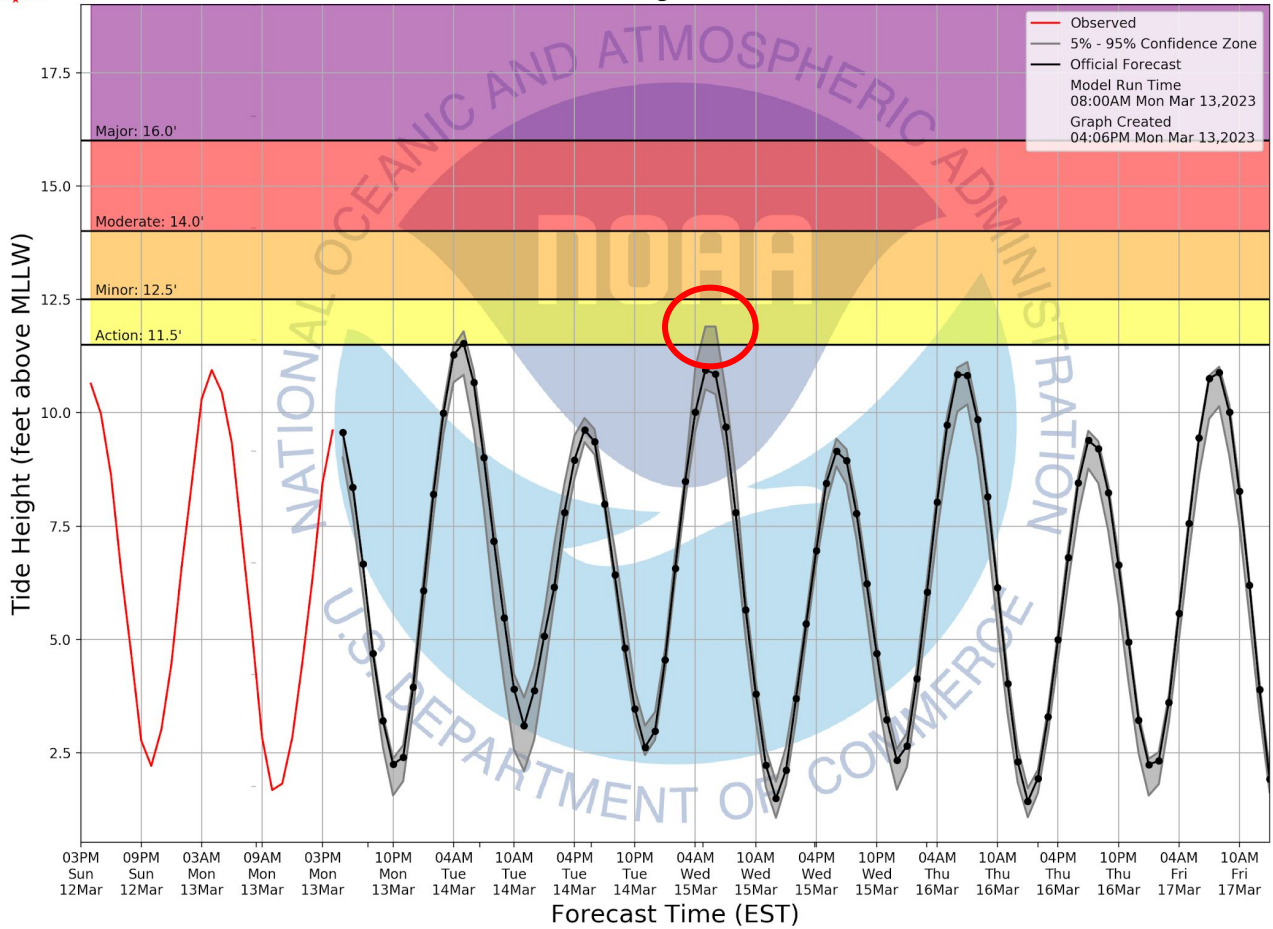
March 13, 2023
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Graphs Showing Possible Forecast Ranges

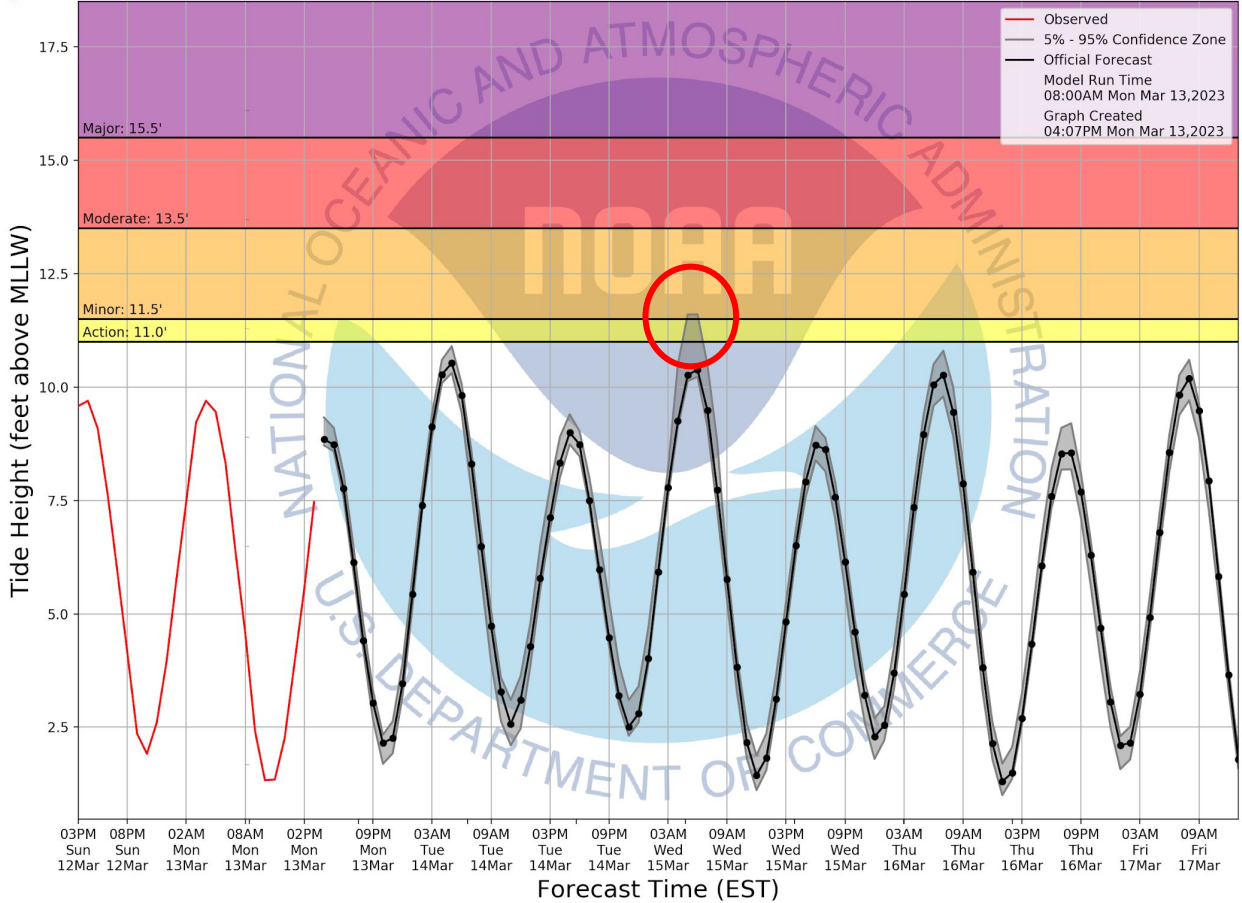
High tide of concern is early Wednesday morning (5-6 AM). Impacts may be higher due to wave action. Expecting a 2 to 3 foot storm surge, yielding 12-13 ft MLLW in Boston Harbor and 11 to 12 ft MLLW Scituate.



Boston Harbor at Boston, MA
Tide Height (MLLW)



Massachusetts Bay at Scituate, MA
Tide Height (MLLW)





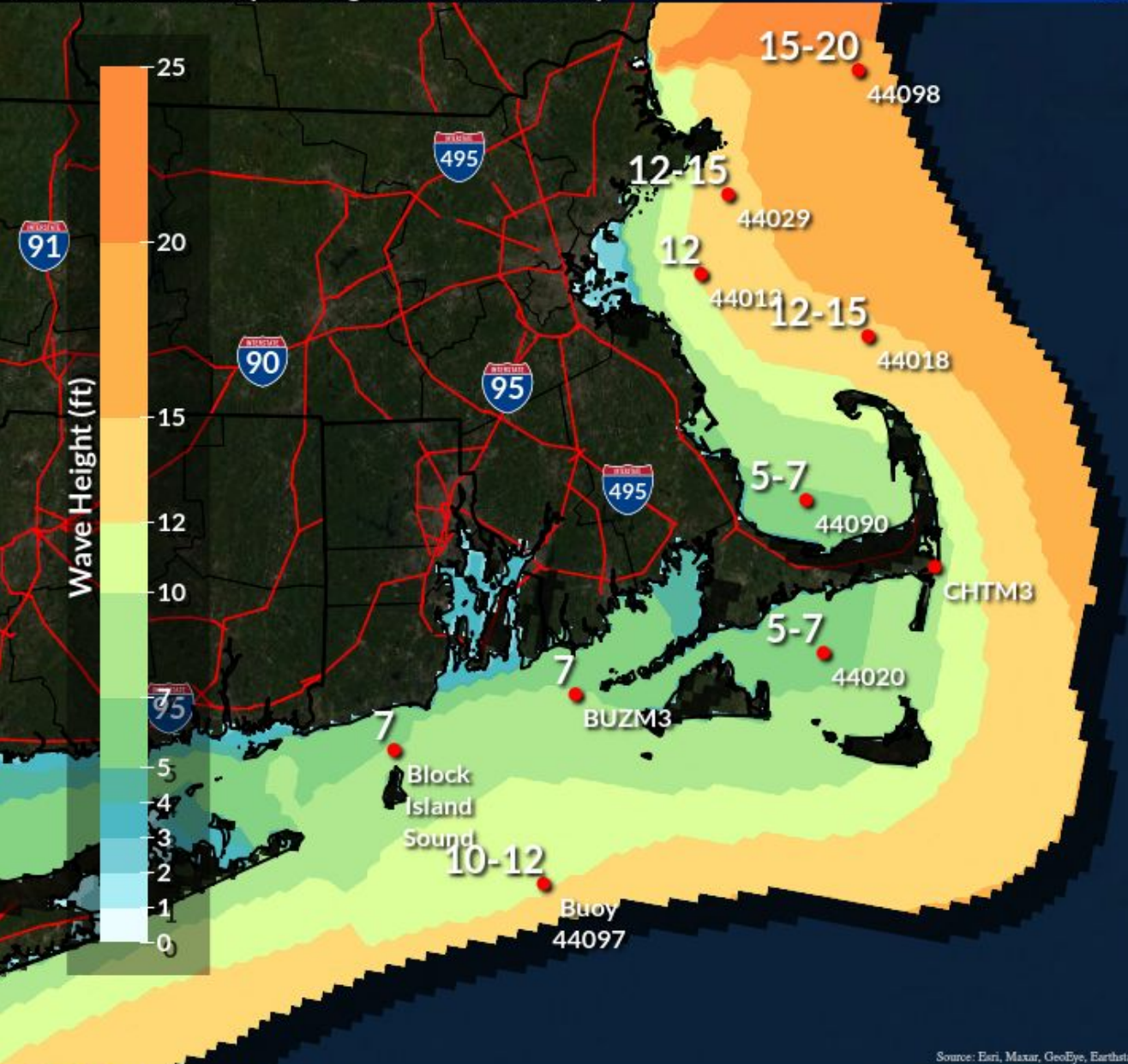
Maximum Wave Heights

March 13, 2023
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Maximum Wave Heights

Valid: 2 AM Tuesday Through 8 AM Wednesday

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Boston/Norton, MA
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Highest waves expected during the day Tuesday

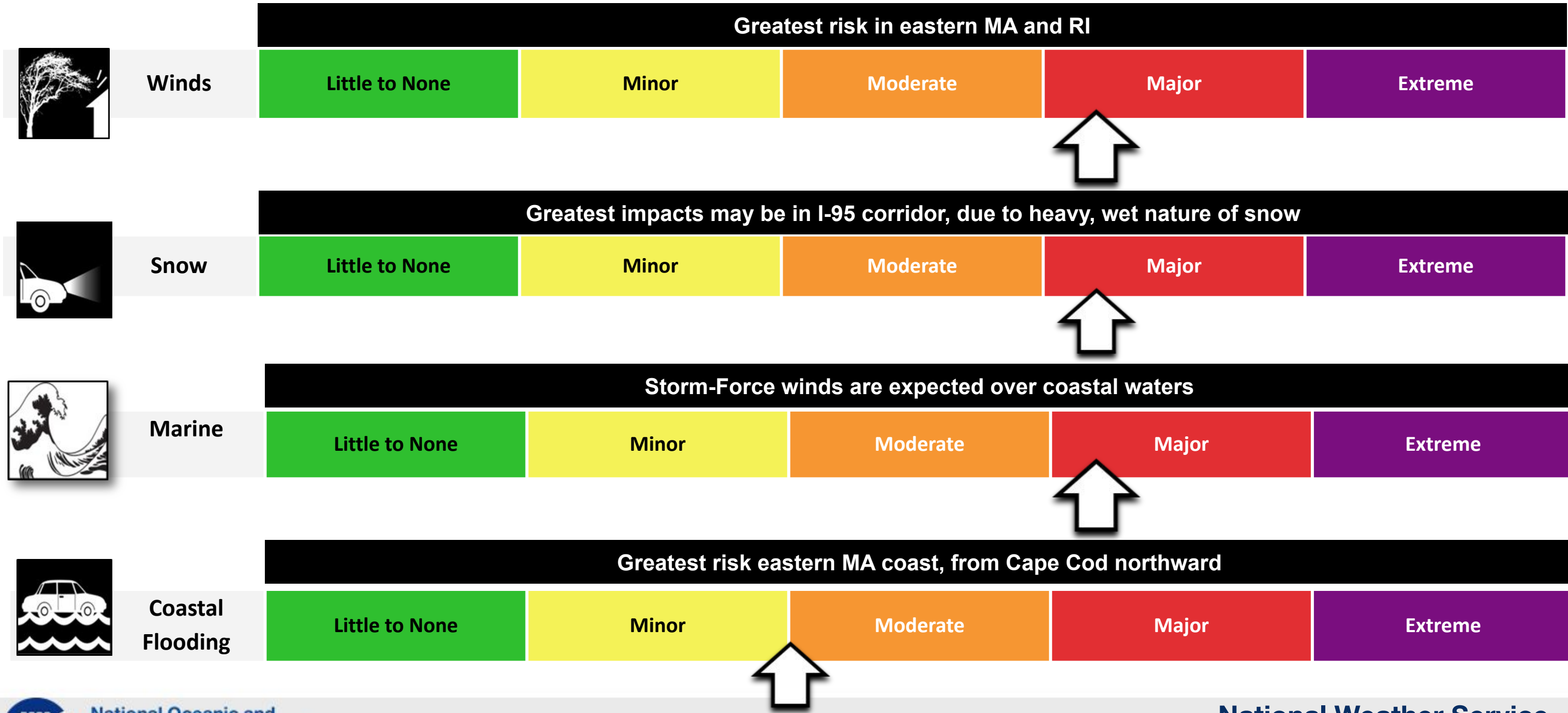
Will coincide with the time of strongest winds (40-50 knots closer to land, and in excess of 50 knots offshore)

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Summary of Greatest Impacts

March 13, 2023
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Key Points Summarized

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- **Snow**

- **Snow consistency will be wet. Snow loading and power outages become a big concern with totals >4". Strong winds will exacerbate the issues.**
- **Outside of higher terrain, temperatures will be in the mid to upper 30s around daybreak Tuesday, then they drop to 32 or lower late Tuesday morning/afternoon. That's when accumulations will really increase.**
- **Tuesday morning commute may be impacted in Hartford/Springfield/Worcester. The Tuesday evening commute could be difficult across much of the region, including Boston and Providence. Conditions should improve Wednesday morning.**

- **Wind**

- **High confidence that wind speeds will be strongest along the eastern MA coast. Concern for downed trees/power lines and travel for high profile vehicles.**

- **Coastal Flooding**

- **Minor coastal flooding is expected along the eastern MA coast from Cape Cod northward. It may last several tidal cycles Tuesday and Wednesday.**





Contact and Next Briefing Information

March 13, 2023
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For NWS Boston/North County Warning Area

Next Briefing



By 6:00 AM Tue, 3/14/23
Method: Email

Disclaimer



Information contained in this briefing is time-sensitive
Do Not Use After: 6:00 AM Tue, 3/14/23

Contact Information

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