

What to carry?

- It all depends (on a lot of things)
- Local conditions
 - Weather, expected and unexpected
 - Terrain
 - Season
- Mission
 - Duration
 - Goal
- Team (experience, skill, resource type....)
 - No point in carrying stuff you don't know how to use
 - Sharing the load
- Survival: Things on your person.

Expectations

- ASTM 2751-16 (Land SAR Member): Self sufficient for 24 hours; perform duties in expected conditions, including darkness.
- FEMA Resource Types:

The ability to be self-supporting for 24 hours

- Type IV, III, and II Wilderness Search and Rescue Team
- Type III and Type II Canine Search and Rescue Team

The ability to be self-supporting for 72 hours

- Type I Wilderness Search and Rescue Team
- Type I Canine Search and Rescue Team

Tradeoffs

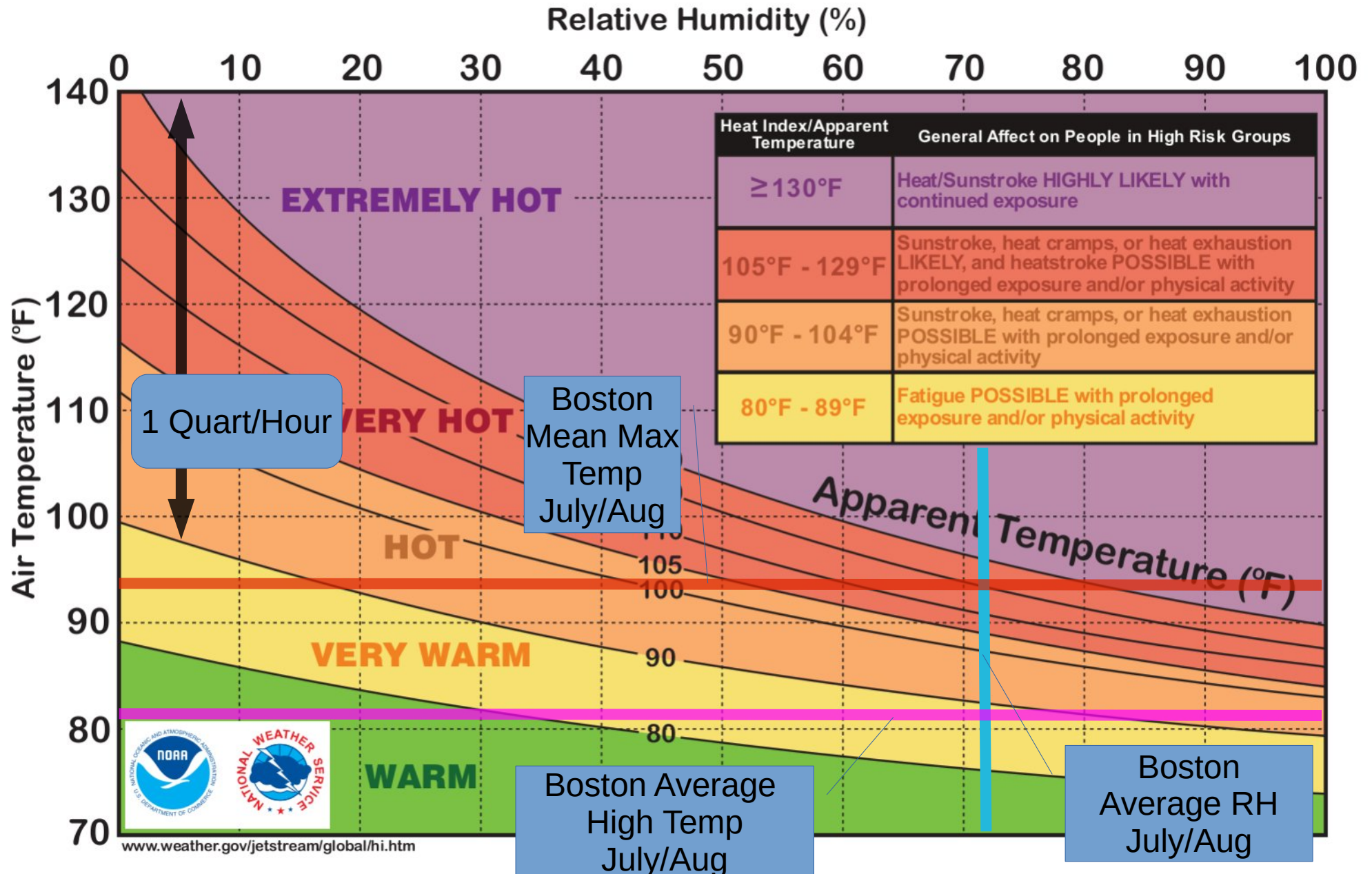


- Weight vs:
- Routine needs (e.g. communications, navigation)
- Consumable Supplies (e.g. batteries, flagging tape)
- Mitigation for likely hazards
- Medical supplies
- Supplies for overnighting (with or without a subject)

Essentials

- “10 Essentials” List may vary.
- On your person.

Anticipate 1 Quart/Hour in Summer



Food

- High caloric content in low volume & weight
- Water
- Hot Drinks

Food and Overnight



Pack For the Mission

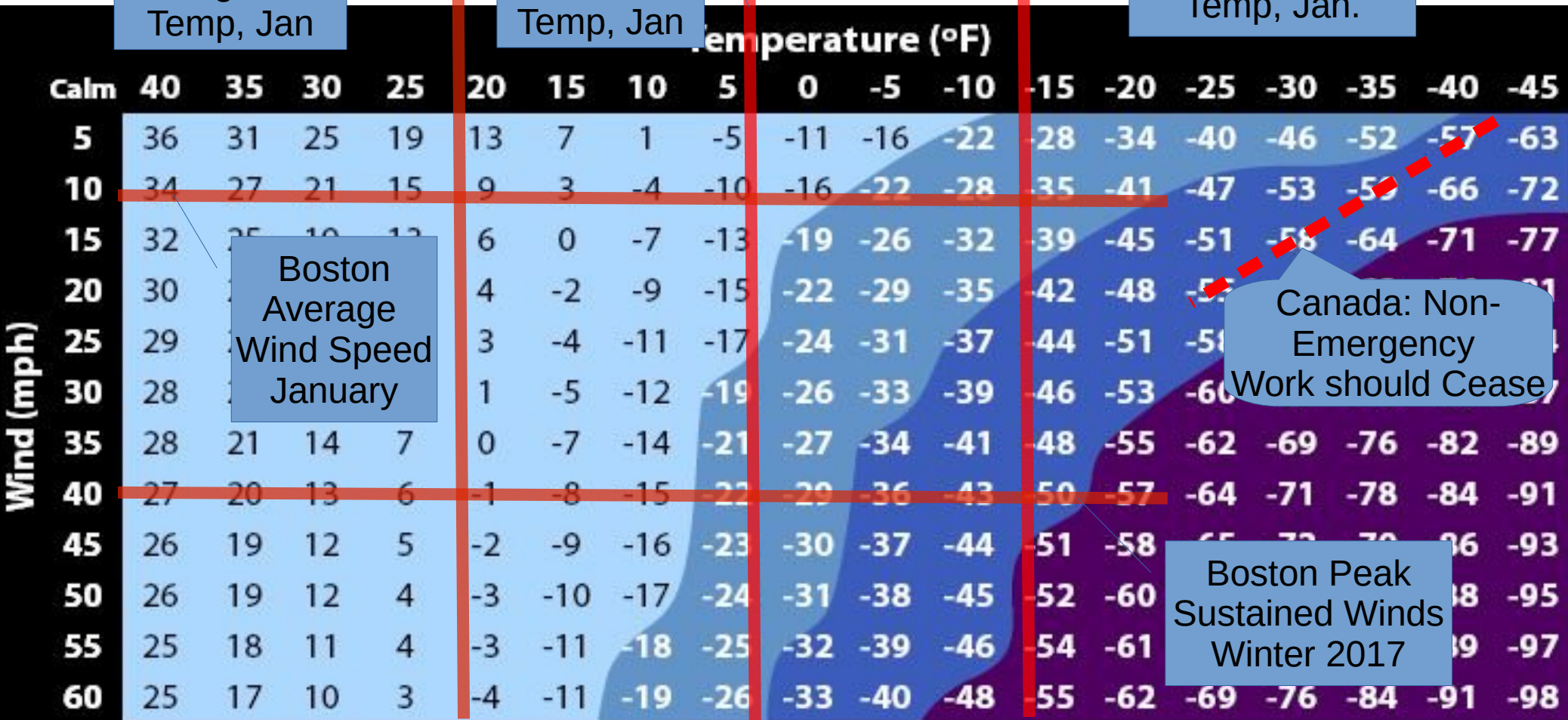
- On Your Person
- Urban/Suburban pack
- 24 hour pack
- 72 hour pack

Wind Chill

Boston Average Low Temp, Jan

Mean Minimum Temp, Jan

Boston Record Low Temp, Jan.



Boston Average Wind Speed January

Canada: Non-Emergency Work should Cease

Boston Peak Sustained Winds Winter 2017

Frostbite Times 30 minutes 10 minutes 5 minutes

$$\text{Wind Chill (}^\circ\text{F)} = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

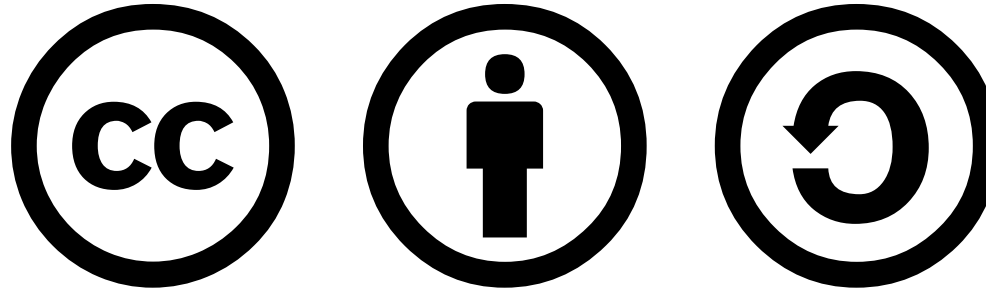
Where, T= Air Temperature (°F) V= Wind Speed (mph)

Effective 11/01/01



Factors

- Weather (including temperature)
- Terrain
- Altitude
- Navigation
- Flora and fauna
- Patient care needs
- Travel time
- Duration of incident
- Logistics (including communications)
- Incident management needs



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