

Operational Environment Considerations for the DoD MII Point of Need Challenge

Hot and Humid Environment Design Considerations:

- Average temperature range: 78°F to 95°F [26°C to 35°C]
- Humidity: 90%
- Rainfall: as much as 400+ inches [1,000 centimeters] annually

Cold Environment Design Considerations:

- Minimum acceptable level: Able to operate in -21°F to -39°F [-29°C to -39°C]
- Desired operational capability: Able to operate in -40°F and below [-40°C]

For additional information:

- ATP 3-90.98 MCTP 12-10C, Jungle Operations, September 2020,
https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN30806-ATP_3-90.98-000-WEB-1.pdf
- Arctic Winter Conditions Effects on Tactical Field Maintenance, Lt. Col. Raphael Jimenez, Capt. Alexander Banks, and Chief Warrant Officer 4 Brian Cox, June 15, 2022.
https://www.army.mil/article/255521/arctic_winter_conditions_effects_on_tactical_field_maintenance
- ATP 3-90.97, Mountain Warfare and Cold Weather Operations, April 2016,
https://armypubs.army.mil/epubs/DR_pubs/DR_a/pdf/web/atp3_90x97.pdf