



INDOPACOM Climate Change Impact (CCI) Program

From Climate Facts to Warfighting Impacts

Climate Facts

- Sea and air temperature rise
- GHG increases
- Sea level rise
- Ocean acidification
- Glacier/Ice cap melting



Climate Impacts

- Coastal sea levels
- Tropical cyclones
- More flooding
- More droughts
- Riverine erosion
- Desertification



Human Security Impacts

- Freshwater access
- Food production
- Infrastructure destruction
- Disease outbreak
- Migration
- Fisheries



State Security Impacts

- Increasing need for HADR
- Conflict over resources
- Increased stress on fragile governments
- Existential threat for coastal cities and nations



Warfighting Impacts

- More HADR Responses
- Reduced training time / locations
- Facility and equipment loss
- Damage to operating locations

CCI Program: "Fights on" to identify relevant/at risk locations, provide assessment of climate change impacts, and execute improvement programs





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Warfighting Impacts

<<<< IMPACT ON READINESS >>>>



Damage from rising sea levels and extreme weather events on port facilities, bases, coastal cities, forward operating locations



Extreme weather impacts on land, sea, air operations



Increase in number & complexity of HADR missions



Damage to training ranges and reduced training time



Potential conflicts over resources (e.g., Mekong River)



Potential for dealing with climate-induced migration (e.g., Syria)



Instability from climate impacts on weak or failing governments (e.g., Afghanistan)



Weaponization of climate change, e.g.,

- Exacerbate local effects on others (dams)
- Geo-engineering to improve local effects on the homeland (cloud seeding)
- Climate change assistance to access resources (minerals and fossil fuel)

<<<< POTENTIAL CONFLICT >>>>