# Climate change may undermine peace and security

Climate change exacerbates existing pressures on security as well as bringing new challenges, and the potential for violent conflict could increase. The operational responsibilities of the defence sector could also expand in the event of large-scale climate-driven disasters.

## Reducing the Carbon 'Bootprint'

In many nations, defence forces are

Reducing fuel consumption would in turn

reduce greenhouse gas (GHG) emissions.

40–70% more fuel efficient by

Resilience

**Strategies** 

Key Findings from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5) For more information please visit www.cisl.cam.ac.uk/ipcc

# ment in efficiency. Shifting

cuts in direct GHG emissions.



Aviation carbon dioxide (CO emissions can be reduced through more efficient planning of operations including routes, altitudes and speeds





Food and freshwater insecurity, pandemic/epidemic disease outbreaks, loss of food production and arable lands, population displacement, livelihood insecurity.

### water resources more heat-related illness, change in large-scale fish catch potential

Rising and Extreme Temperatures

Lower garicultural output, spread of

disease food insecurity less renewable



Uneven distribution of impacts among countries depending on geographic setting and other factors affecting national and human security. Climate-related security threats greatest in countries with weak or failing governments and/or with existing conflict

## **Declining Snow and Ice Cover** Access to offshore resources in newly ice-free areas, freshwater

insecurity, changes

Extreme Weather

Destruction of critical infrastructure.

population displacement.

pandemic/epidemic disease

outbreaks, humanitarian

Template AR5 - Defence v9.indd 10-11

### Sea-Level Rise and Storm Surges

ncreased vulnerability in the Low Elevation Coastal Zones, damage to infrastructure, changing territorial limits and integrity, population displacement, disease spread, loss of arable land, change in coastal resources.

# **Change Impacts**

**Responding to Climate** 



use as medica centres and upport areas fo

rovidina larae-scale emeraency medical hospitals, sanitation

Peacekeeping in fragile areas, refugee control olicing, conflict resolution neering activity, borde

Safely movina population and supplies while providing security, clearing debris, water treatment and

Rapidly constructing and maintaining facilities to provide critical services for a displaced population for extended periods

Rebuildina and adaptin nfrastructure, maintaining sanitation facilities. providing shelter, protecting vulnerable populations against emerging threats, mortuary services.

### Flexible Res

Even with adaptation measures anges in climate can have unexpected, adverse effects on military operations. Flexibility in planning and response will be essential in meeting long-term defence and security responsibilities.



Action with an emphasis on disaster risk reduction can increase climate resilience while helping improve human

Millions of people could depend on adaptation measures to reduce displacement caused by coastal flooding and land loss



## **Anticipating Climate Risk**

Anticipating climate risks can help planners reduce impacts. Numerous facilities may need to be relocated and/or strengthened, notably to secure naval bases against flooding and sea-level rise.



Nations will need to update strategic security planning to take into account risks and impacts of climate change.



Reduction of fresh, clean water resources could require increased peacekeeping in areas prone to conflict over extreme scarcity, as well as logistical adaptation for troop supplies

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