

CEMC: CLIMATE CHANGE EVALUATION METHODOLOGY FOR MILITARY CAMPS*





SYSTEMIC/ INTERACTIVE

The CEMC conceives a military camp vulnerability assessment to climate change as the evaluation of the vulnerability of a <u>system</u> - the "camp system" - which is composed of a <u>technical subsystem</u> (the installation) and a <u>socio-natural subsystem</u> (the social, natural, political, and economic milieu) in which the camp is located.

This systemic vision of the CEMC requires to take into account the interactions and dependencies of the two subsystems composing the camp system.

2 SYSTEMATIC

The CEMC provides a conceptual framework of vulnerability that can be applied systematically to each assessed camp. In the context of this exercise, the concept of vulnerability refers to the capacity of a camp to perform each of its essential functions, taking into account an adaptation potential, following the occurrence of a climate hazard or the combination of several hazards, which would directly or indirectly affect it by impacting its implantation milieu.

The conceptual framework consists in four components: exposure (C1), degradation (C2), stability (C3) and sensitivity (C4), the combination of which determines the studied camp system vulnerability to climate change; and enables the analysis of the camp interactions with its socio-natural milieu.



The analysis, without adaptation measures, of the interactions, dependencies, and feedback loops of the three components (exposure, degradation, and stability) structures the assessment of the fourth component: sensitivity. The vulnerability of a camp is then evaluated considering an additional assessment criterion: the adaptation potential.



3 QUALITATIVE

The CEMC relies on the evaluator's analytical assessment through:

- The collection of background data.
- Open-ended responses from specific actors through the distribution of a questionnaire.
- The conduct of interviews with identified resource persons.
- The conduct of an on-site mission.



4 QUANTITATIVE

The CEMC is based on the collection of quantitative data related to the exposure, degradation, and stability of the studied camp system, as well as possible sets of statistical information.



THE 10 STEPS OF THE CEMC







CEMC AUTHORS

François Gemenne, qualified researcher at FNRS of the University of Liege, IPCC main author.

Sofia Kabbej, research fellow at the Climate, Energy and Security program of IRIS.

Alexandre Taithe, research fellow at Fondation pour la recherche stratégique.

Julia Tasse, research fellow and head of the Climate, Energy and Security program at IRIS.

CONTRACTOR OF CO

INFORMATIONS

This brochure was produced as part of the Observatory of Climate Change Impacts on Defence and Security, launched in 2016 by IRIS on behalf by the Directorate General for International Relations and Strategy (DGRIS, French Ministry of Armed Forces).

It presents the features and steps of the Climate change Evaluation methodology for Military Camps (CEMC).

For a better understanding of the methodology, the full report should be consulted for background and explanatory information, as well as guidance for the evaluator. The full report also provides visualization charts.

CONTACTS

French Institue Affairs

> 2 bis rue Mercoeur, 75011, Paris France Tel : +33 (0)1 53 27 60 60





@ObsDefClim1

asse@iris-france.org 33 (0)1 53 27 60 76

@TasseJuli