climada module **CAM**  28 Feb 2015

<https://github.com/davidnbresch/climada_module_CAM>

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This module supports the CAM project

It allows to analyze other TC track data than UNISYS (e.g. from NCAR), to calculate country risk results[[1]](#footnote-1) and all other analyses as provided by climada.

Further, the module calculates the economic loss (i.e. the full range of economic costs in the wake of a natural disaster) associated with the hazard event sets[[2]](#footnote-2).

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# CAM module – basics

The module mainly supports tropical cyclone (TC) tracks from other sources than UNISYS. Please first have a look at the code selected\_countries\_CAM, which runs all required steps as a batch code.

# Function reference

Use help {function name} to get a detailed description and input/output specification

## Top level functions

selected\_countries\_CAM: batch code to run all in one

cam\_entity\_value\_GDP\_SSP\_one: Scale one entities assets to values corresponding to either present or future GDP projections

cam\_entity\_value\_GDP\_SSP: caller for cam\_entity\_value\_GDP\_SSP\_one to process multiple entities (e.g. all country entities of the CAM project).

## Plotting functions

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## Support-level functions

climada\_tc\_read\_cam\_ibtrac\_v02: read netCDF file with TC tracks, called by e.g. centroids\_generate\_hazard\_sets from climada module country\_risk.

## Also useful

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1. Therefore, the present module relies heavily on <https://github.com/davidnbresch/climada_module_country_risk> [↑](#footnote-ref-1)
2. See appendix for details on the calculation of economic loss based on the damages in the hazard event set. [↑](#footnote-ref-2)