## Objective:

Create IDs for the analogue methods, as short as possible, in order to synthetize their structure.

# Rule:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P** | \_ | - | **(A)** | \_ | \_ | \_ | - | **(A)** | \_ | \_ | \_ | … |
| Preselection | Type of preselection |  | Analogy level | Number of predictors | Predictor | Optional flag |  | Analogy level | Number of predictors | Predictor | Optional flag |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P | \_ | - | (A) | \_ | \_ | \_ | - | (A) | \_ | \_ | \_ | … |
| Preselection | Type of preselection |  | Analogy level | Number of predictors | Predictor | Optional flag |  | Analogy level | Number of predictors | Predictor | Optional flag |  |

# Elements:

**P** : Preselection

* **D** : on calendar dates
* **T** : on the air temperature

**A** : Analogy level

* Number of predictors: number of combinations of atmospheric levels and time of observation.
* Predictors (according to ECMWF conventions; in upper case):
  + **Z** : on geopotential (circulation)
  + **HI** : on humidity index
  + **HF** : on humidity flux
  + **W** : on the vertical velocity
* Flags (optional; in lower case):
  + **o** : optimized (eg. by genetic algorithms)

In order to keep the ID simple, no value of atmospheric level neither time of observation is specified. Moreover, the analogy criterion is not specified and is supposed to be S1 for Z and RMSE for the other variables. If anything changes from these conventions, it can be noted as a flag.

# Example:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P** | C | - | **(A)** | 2 | Z | o | - | **(A)** | 2 | HI |
| Preselection | On calendar dates |  | 1st Analogy level | 2 predictors | Geopotential | Optimized |  | 2nd Analogy level | 2 predictors | Humidity index |

# Existing methods:

* Guilbaud (1997) : **P**C-**A**4Z
* Bontron (2004) circulation : **P**C-**A**2Z
* Bontron (2004) humidity : **P**C-**A**2Z-**A**2HI
* Marty (2010) : **P**C-**A**2Z-**A**2HF
* Ben Daoud (2010) a : **P**2T-**A**2Z-**A**2HI
* Ben Daoud (2010) b : **P**2T-**A**2Z-**A**4HI
* Ben Daoud (2010) c : **P**2T-**A**2Z-**A**10HI
* Ben Daoud (2010) d : **P**2T-**A**2Z-**A**4W-**A**2HI
* Ben Daoud (2010) e : **P**2T-**A**2Z-**A**4W-**A**4HI
* Horton (2012) circulation : **P**C-**A**4Zo
* Horton (2012) humidity : **P**C-**A**4Zo-**A**2HIo

# Existing methods:

* Guilbaud (1997) : PC-4Z
* Bontron (2004) circulation : PC-2Z
* Bontron (2004) humidity : PC-2Z-2HI
* Marty (2010) : PC-2Z-2HF
* Ben Daoud (2010) a : P2T-2Z-2HI
* Ben Daoud (2010) b : P2T-2Z-4HI
* Ben Daoud (2010) c : P2T-2Z-10HI
* Ben Daoud (2010) d : P2T-2Z-4W-2HI
* Ben Daoud (2010) e : P2T-2Z-4W-4HI
* Horton (2012) circulation : PC-4Zo
* Horton (2012) humidity : PC-4Zo-2HIo