

## **Surfex steering committee 2022 Meso-NH - SURFEX**

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12/04/2022

## Development pushed for V9 (10/2020)

- Blowing snow scheme Méso-NH-Crocus (V. Vionnet et al. 2014, CEN)
- Biogenic emission scheme Méso-NH-MEGAN version 2.1 (P. Tulet, LAERO)
  Guenther et al., 2012
- GFS grib reader (J. Pergaud Univ. Bourgogne)
- Sea salt upgrade : sea-wave height (IFS) +  $3 \rightarrow 5$  modes (S. Bielli Lacy)
- External length of record variable (LEN\_HREC=12 by default)

Since 10/2021 : a mesonh-550 branch is plugged to last major contrib of SURFEX-V9-dev (commit e0af20801 31/08/2021 = after TEB contrib)

~ 5 users already use MesoNH-550-SURFEX-V9-dev



## **Incoming development in MesoNH/SURFEX**

- Sea salt :  $5 \rightarrow 8$  modes (Bruch et al., 2022) with waves
- MEGAN with ECOCLIMAP-SG
- DMS (dimethylsulfide) emissions from ocean



## **Problem encountered**

- Merging SFX-V9 to large version ==> 675 files changed
- Debugging will be long
- STRATO does not include case test from all coupled atmospheric-SURFEX (should be ?)
  - ==> problem at integration if development not embedded under namelist keys (not tested in other models)

