List of Pre-Existing and Third Party Software

Pre-Existing Software

Only the GEO Cloud and Convection products and the PPS Precipitation product include pre-existing software.

MF-CMS (Centre de Météorologie Spatiale, Météo France) Cloud Products (GEO) preexisting SW:
tropopause.c in mfcms_prep_pge03.c in MSG v2012 and v2013
No pre-existing SW included in GEO v2016 and future releases

SMHI Precipitation Product (PPS) preexisting SW:
The following modules have the Ralf Bennartz, University of Wisconsin, Madison, Wisconsin, USA copyright:

  Convolution routines for AMSU data:
  • Backus Gilbert Convolution of AMSU-B to AMSU-A
  • Convolution of land/sea mask to AMSU

MF-PI (Direction des Opérations pour la Prévision/Prévision Inmédiate, Météo France) Convection Products (GEO) preexisting SW:
The following modules in MSG v2012 and v2013 have a MF copyright:

  pge11_correlation (.c .h)
  pge11_fin_episode (.c .h)
  pge11_seuillage (.c .h)
  pge11_structure (.c .h)

Following modules in MSG v2012 and v2013 adapted within IOP/CDOP from pre-existing software have a MF copyright:

  pge11_arbre (.c.h)
Following modules in GEO v2016 and future releases, adapted from pre-existing software, have a MF copyright:

mft_arbre.c
mft_caracterisation.c
mft_correlation.c
mft_fin_episode.c
mft_sorties_fic.c
mft_structure.c
mft_suivi.c
mft_app_types.h
mft_globals.h

Third Party Software

In addition, the NWC SAF Software uses third party software. Among them:

- RTTOV Software as delivered by the SAF on Numerical Weather Prediction (NWP SAF)
- BUFRDC and GRIB API software packages freely provided by ECMWF
- Python
- NetCDF, HDF5