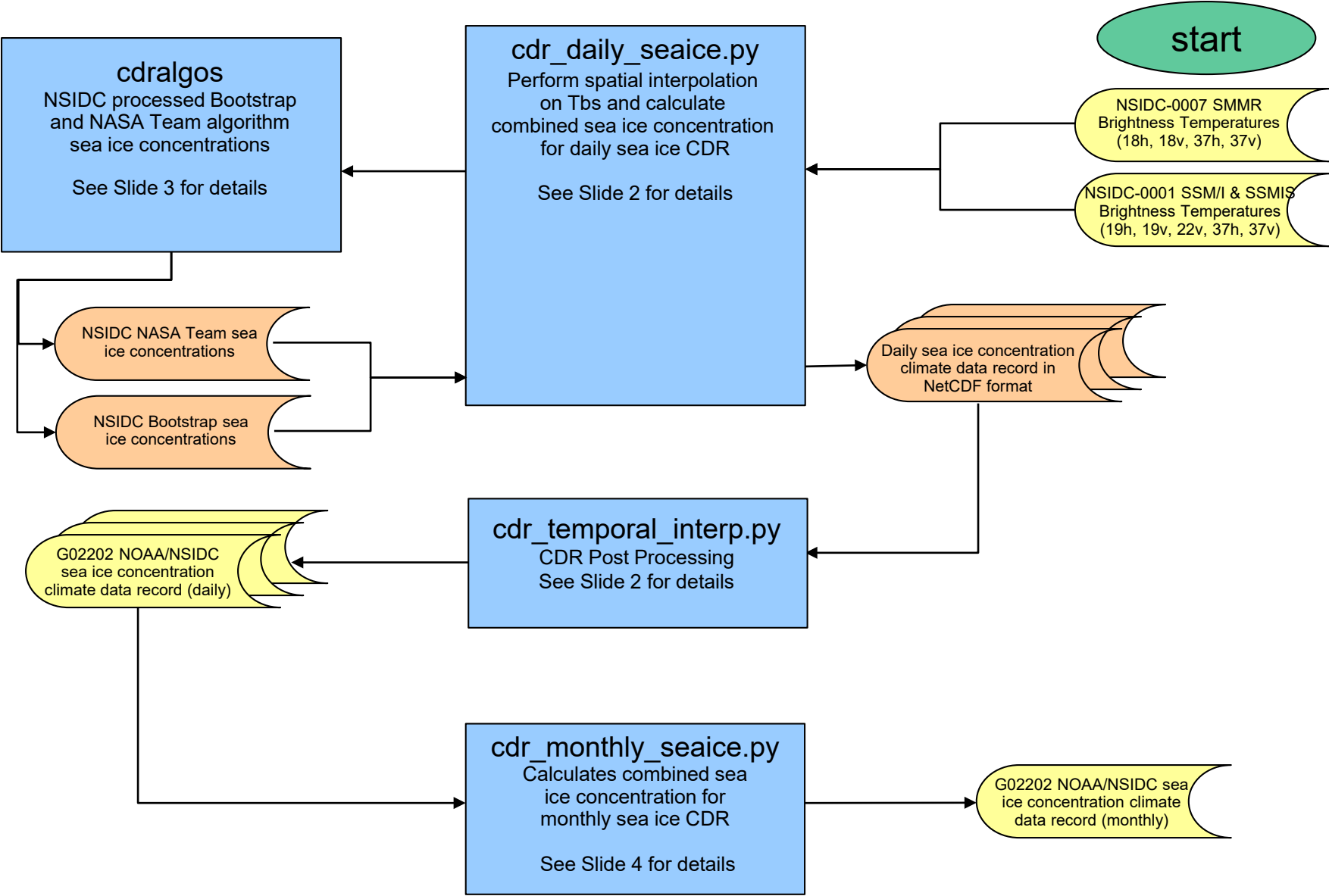


Overview of Sea Ice Concentration CDR Processing Flowchart



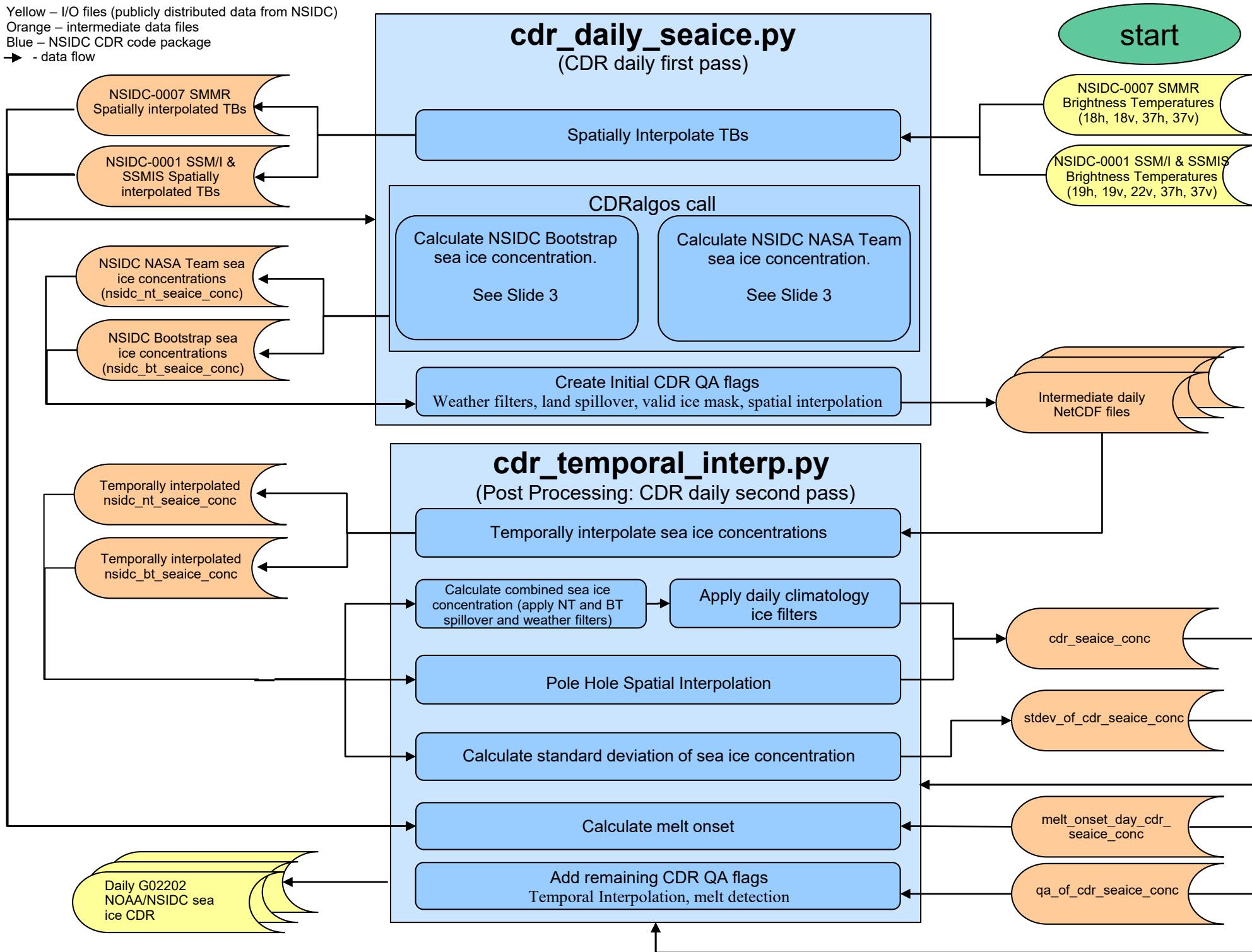
Yellow – I/O files (publicly distributed data from NSIDC)
 Orange – intermediate data files
 Blue – NSIDC CDR code package
 → - data flow

Refer to Library Requirements on slide 5 before running the `cdr_daily_seaice.py` and `cdr_monthly_seaice.py`

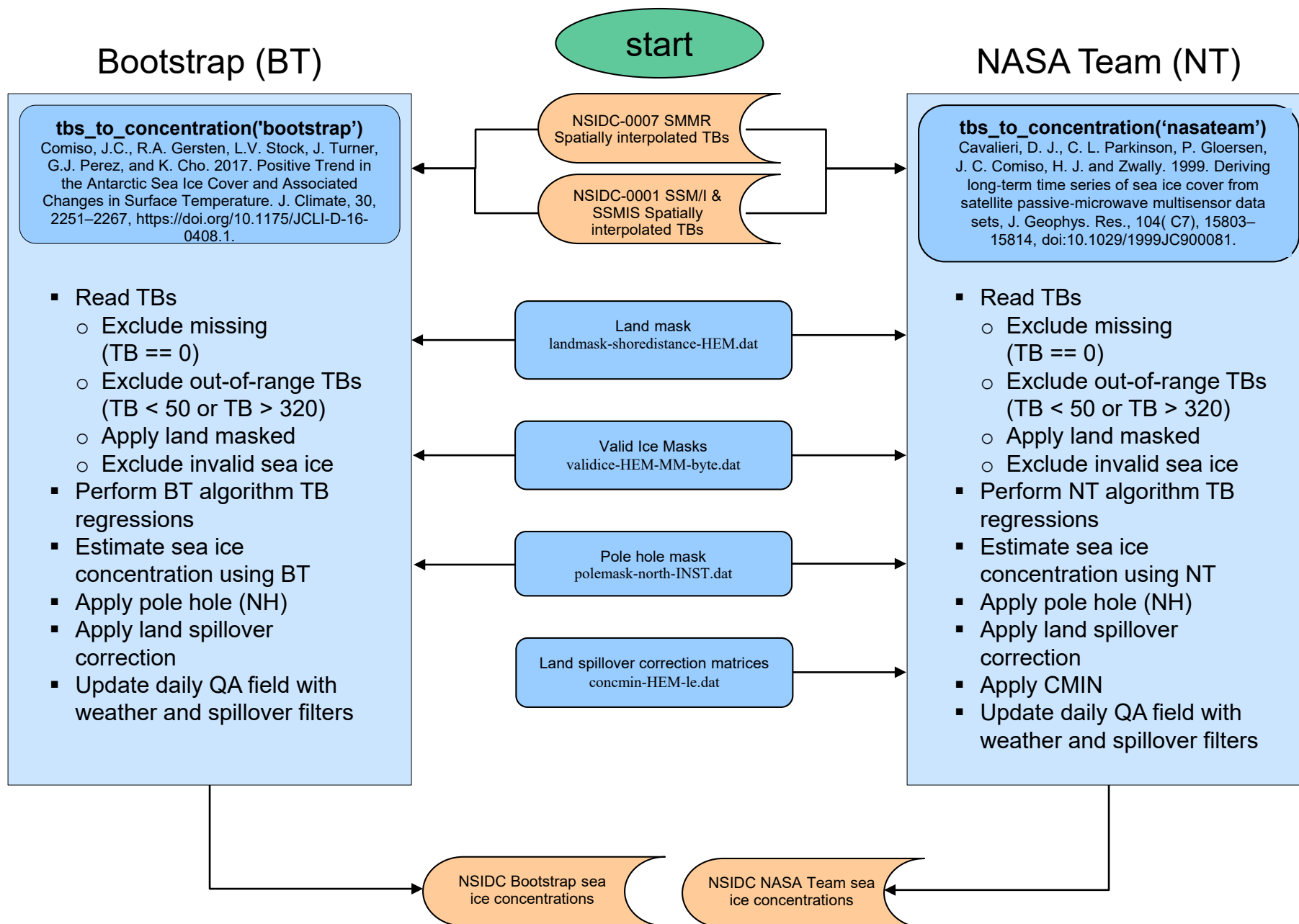
Note for slides 1-3: The ICDR (G10016) processing is identical except that the input data is NSIDC-0080 SSMIS brightness temperatures and the output is G10016.

Daily Sea Ice Concentration CDR Processing Flowchart

Yellow – I/O files (publicly distributed data from NSIDC)
Orange – intermediate data files
Blue – NSIDC CDR code package
→ - data flow



CDRalgos Flowchart



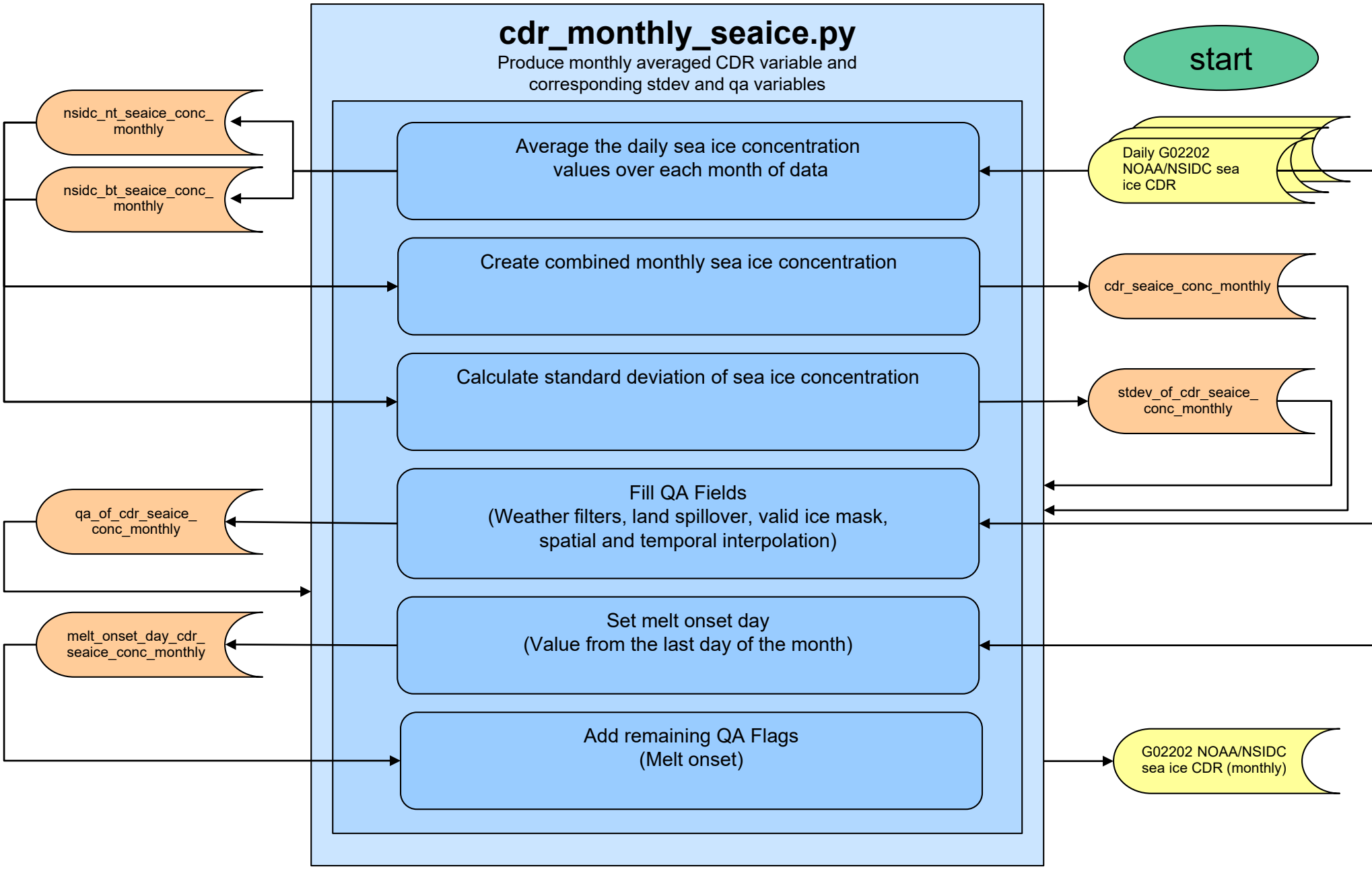
Yellow – I/O files (publicly distributed data from NSIDC)

Orange – intermediate data files

Blue – NSIDC CDR code package

➔ - data flow

Monthly Sea Ice Concentration CDR Processing Flowchart



Note that the ICDR (G10016) processing is identical except that the input data is the daily G10016 data and the output is G10016 monthly data.

Library Requirements

The following Python libraries are required to run SIC CDR code

- python $\geq 3.8.0, < 4.0.0a$
- jinja2 $\geq 2.11.2, < 3.0.0a$
- netcdf4 $\geq 1.5.0, < 2.0.0a$
- nco
- numpy $\geq 1.19.0, < 1.20.0a$
- pyyaml $\geq 5.3.1, < 6.0.0a$
- invoke $\geq 1.4.1, < 2.0.0a$

The following additional libraries are required to run SIC CDR code

- gfortran
- make