Feature time variables

▶ Feature variables that control the whole experiment or the run length, or that can be used to retrieve time information for use in the configuration files

▶ Full experiment length control
- initial_date
- final_date

```
fesom-2.1.yaml
namelist_changes:
        namelist.config:
                ...
                restart_log:
                        restart_length: "${restart_rate}"
                        restart_length_unit: "${restart_unit}"
```

▶ Note: each model controls their timing in a different way, for FESOM for example with the restart variables

```
fesom_runscript.yaml
general:
        account: <your_account>
        setup_name: fesom
        compute_time: "00:20:00"
        initial_date: '2001–01–01'
        final_date: '2001–03–01'
        base_dir: <your_basedir>
        nyear: 0
        nmonth: 1
        nday: 0
        use_venv: False
fesom:
        version: 2.1
        model_dir: <your_model_dir>
        lresume: 0
        restart_rate: 1
        restart_first: 1
        restart_unit: 'm'
```

Feature time variables

▶ Variables to retrieve information for the configuration files
- start_date – start date of this run
- end_date – end date of this run
- next_date – next run initial date
- parent_date – ending date of the previous run

▶ **Use case**

Most of the models produce time-stamped output. In order to be able to handle this output files (copy/move) the name needs to be constructed in the configuration files using the information from the ESM-Tools calendar. This variables allow for such operations. Same goes for input files and restarts whose names need to be correctly time-stamped to be taken by the models.