TIEGCM Year Boundary

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The TIEGCM (stand-alone and coupled with CMIT) needs to be specially configured to cross a year boundary. MakeItSo generates proper run scripts to deal with the TIEGCM spinup interval. However, MakeItSo needs special care when the run interval you desire crosses a year boundary.

Consider a run of CMIT:

- Start: December 21, 2011
- End: January 17, 2012

ⓘ **Note: Remember the Spinup interval...**

- LFM-MIX will pre-condition starting at 23:10 UT on December 20, 2011.
- The TIEGCM will pre-condition starting 20 days earlier, on December 1, 2011.

As currently implemented, MakeItSo requires that you split this up into two runs.

SPINUP: False Option

You will need to split up any run that crosses a year boundary into two runs: One with the spinup interval (`SPINUP: true`) and another with the spinup interval disabled (`SPINUP:false`). The `SPINUP: False` option does not create an LFM or TIEGCM startup file. MakeItSo assumes this already exists from a previous run.

Example

1. First run: December 21, 2011 through January 1, 2012 at 00:00:00 UT (with spinup interval--`SPINUP:true`)
2. Second run: January 1, 2012 at 00:00:00 UT through January 17, 2012 (no spinup interval--`SPINUP:false`). The tricky part is configuring the spinup interval. You must either
   a. run MakeItSo in `--expert` mode, setting `SPINUP: false`, or
   b. edit a MakeItSo.config file and add `- SPINUP: false` to the Shared model parameters. For example:

SampleRun-2012_makeItSo.config example snippet

```
Models:
  - Shared:
      SHARED:
      - Output directory: SampleRun-2012
      - RUN_IDENTIFIER: CMITs
      - START_YMDHMS: 2012 1 1 0 0 0
      - STOP_YMDHMS: 2012 1 17 1 0 0
      - TIME_DUMP_INTERVAL: 300.0
      - SIMULATION_HOURS_PER_SEGMENT: 4.0
      - SPINUP: false
```