

## README for

**[Supplementary dataset for “Multiyear La Niña impact on summer temperature over Japan”]  
in J-STAGE DATA**

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**1. data.Multi\_LN\_events.tar.gz**

It includes extracted multiyear La Niña events in observation and reanalysis.

Please refer to main manuscript for individual extracted events and dataset used in this study.

Each netcdf (.nc) / GrADS file (.ctl, .gtd) consists 5-dimensional data (lon, lat, lev, time, num of events).  
time length (nt) is usually 36 [month] started from developing year of multiyear La Niña.

dataset:

AMeDAS, CERA20C, COBESST2, ERA20C, NCEP1, NOAA20CR

variable:

sea surface temperature (sst), precipitation (prcp), surface air temperature (sat), temperature at 850hPa (t850), zonal/meridional wind at 850hPa (u850/v850), geopotential height at 500hPa (z500)

Note:

File name, “1901-2018” / “1951-2010” indicates period for extracted events.

AMeDAS is stationary observation data (no horizontal and vertical dimension). File names of AMeDAS include location of station data. A/N/S/E/W denote Averaged/North/South/East/West of Japan temperature.

**2. data.Single\_LN\_events.tar.gz**

As in “data.Multi\_LN\_events.tar.gz”, but for single-year La Niña events

**3. LBMsetting\_results.tar.gz**

It includes LBM setting and results used in Section 5.

Directory structure and description are described below.

basic\_states/

: Basic states for LBM experiments.

ideal\_forcing/

: ideal forcing using in LBM experiments.

results/

: LBM responses are included.

Subdirectory name, JJA0, JJA1, ASO0, and ASO1, indicates multiyear La Niña phase and EP,  
WP, and NWP indicate forcing region.

run\_scripts/

Script using LBM experiment.

4. 2020.MSJ.Autumn.meeting.pdf

This file was used in Meteorological Society of Japan autumn meeting 2020 for oral presentation (in Japanese).

Other data is accessible upon reasonable request to corresponding author.

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