

Tips on NICAM Simulation Data Site

- Go to data path and click or wget “HTTPServer” link.



```
$ https://www.jamstec.go.jp/nicam_data/fileServer/19780601/output/1978/19780601-19780601/data_nc/00360x00181.p26.torg/ms_tem.nc
```

Download multiple NetCDF files

- Bash script example:

```
#!/bin/bash
export LC_ALL=C
url=https://www.jamstec.go.jp/nicam_data

#----- Edit below -----#
resol=00360x00181.p26.torg
var_list=( ms_tem ms_u )
ymd_start=19780601
ymd_endpp=19780611
#----- Edit above -----#

ymd_list=()
ymd=${ymd_start}
while (( ${ymd} < ${ymd_endpp} )) ; do
    ymd_list+=( ${ymd} )
    ymd=$(( date --date "${ymd} 1 day" +%Y%m%d ))
done

for var in ${var_list[@]} ; do
    wget -x ${url}/fileServer/19780601/output/ctl_nc/${resol}/${var}.ctl
    for ymd in ${ymd_list[@]} ; do
        wget -x ${url}/fileServer/19780601/output/${ymd:0:4}/${ymd}-${ymd}/data_nc/${resol}/${var}.nc
        sleep 1s
    done
done
```

- Go to data path, click “OpenDAP”, and check “Data URL”

- Go to data path, click “OpenDAP”, and check “Data URL”

The diagram illustrates the process of accessing climate data from the JAMSTEC NICAM dataset through a web interface.

Dataset

- List of NICAM AMIP-type data files
 - 1978.06.01- (Selected)
 - 1978.06.01- (Aggregated data along ...)

Access

Service	Type	Description
OpenDAP	Data Access	Access dataset through OPeNDAP using the DAP2 protocol. (Selected)
HTTPServer	Data Access	HTTP file download.
WMS	Data Access	Supports access to georegistered map images from geoscience datasets.
WCS	Data Access	Supports access to geospatial data as 'coverages'.
NetcdfSubset	Data Access	A web service for subsetting CDM scientific grid datasets.

Data File Structure

```
output/1978/19780601-19780601/data_nc/00144x00072.p37.torg/
ms_dh.nc
ms_qc.nc
ms_qg.nc
ms_qi.nc
ms_gr.nc
ms_qs.nc
ms_qv.nc
ms_rh.nc
ms_tem.nc (Selected)
ms_u.nc
```

Example: 1-deg temperature at standard pressure levels on 1st June 1978

Action Panel

Action: Get ASCII | Get Binary | Show Help

Data URL: https://www.jamstec.go.jp/nicam_data/dodsC/19780601/output/1978/19780601-19780601/ms_tem.nc

Global Attributes: title: NICAM data output

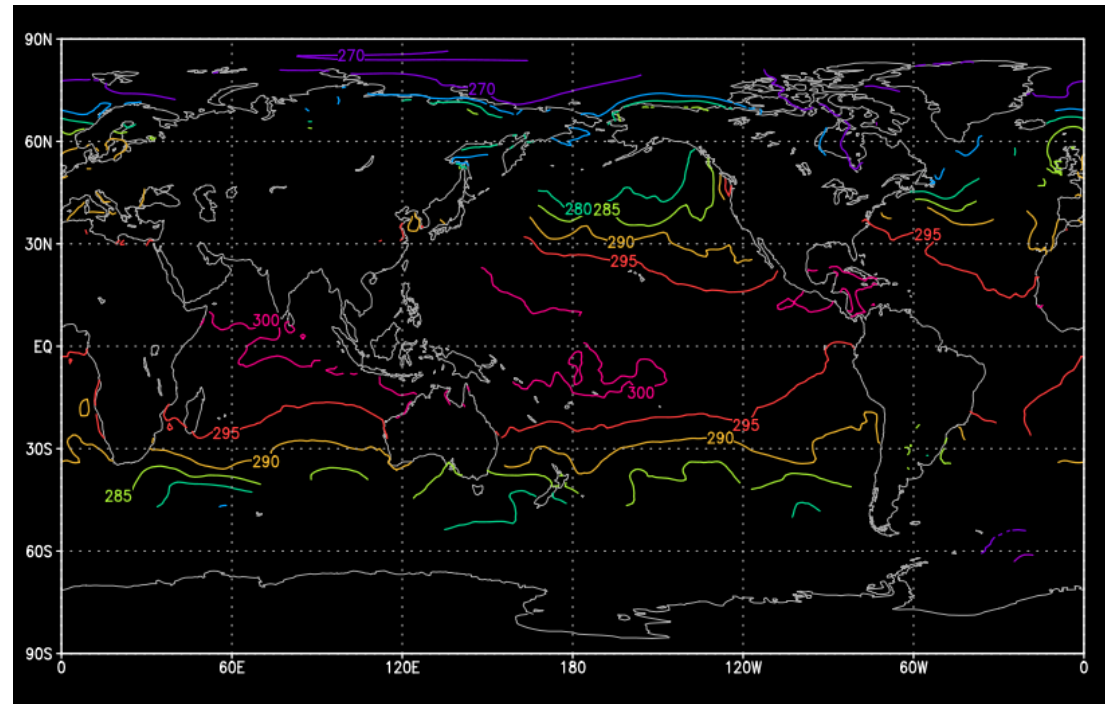
Plot with single file via OpenDAP (2/2)

- Launch GrADS and open the “Data URL” with sdfopen

```
ga-> sdfopen  
https://www.jamstec.go.jp/nicam_data/dodsC/19780601/output/1978/19780601-  
19780601/data_nc/00360x00181.p26.torg/ms_tem.nc
```

- Just plot!

```
ga-> d ms_tem
```



Plot with aggregated files via OpenDAP (1/2)

- Go to data path, click “OpenDAP”, and check “Data URL”

Dataset

- List of NICAM AMIP-type data files
- 1978.06.01-
- 1978.06.01- (Aggregated data along 'time' dimension)

1978.06.01- (Aggregated data in TIME direction)

- 1978
- 1979
- 1980

...

00360x00181.p26.torg

- ms_dh
- ms_qc
- ms_qg
- ms_qi
- ms_qr
- ms_qs
- ms_qv
- ms_rh
- ms_tem
- ms_u
- ms_v

Access

Access:

Service	Type	Description
OpenDAP	Data Access	Access dataset through OPeNDAP using the DAP2 protocol.
WMS	Data Access	Supports access to georegistered map images from geoscience datasets.
WCS	Data Access	Supports access to geospatial data as 'coverages'.
NetcdfSubset	Data Access	A web service for subsetting CDM scientific grid datasets.

Example: 1-deg temperature at standard pressure levels for 1978

Action: Get ASCII Get Binary Show Help

Data URL: https://www.jamstec.go.jp/nicam_data/dodsC/agg/1978/00360x00181.p26.torg/ms_tem

Global Attributes: title: NICAM data output

Plot with aggregated files via OpenDAP (2/2)

- Launch GrADS and open the “Data URL” with sdfopen

```
ga-> sdfopen  
https://www.jamstec.go.jp/nicam_data/dodsC/agg/1978/00360x00181.p26.torg/ms_tem
```

- Just plot!

```
ga-> d ms_tem
```

