

6

email will be send to specified address user_email including location of processed data on Graham

5

```
cp /project/6008034/WRF-REQUEST/INBOX/_request_USERNAME.dat
   /project/6008034/WRF-REQUEST/INBOX/request_USERNAME.dat
```

7

download data from specified location within 7 days

1

Product	Domain	Res.	Scenario	Period
ctl-wrf-wca	Western Canada	1 hr, 4 km	historical	10/2000-09/2015
pgw-wrf-wca	Western Canada	1 hr, 4 km	pseudo global warm.	10/2000-09/2015
ctl-wrf-conus	Cont. US	1 hr, 4 km	historical	10/2000-09/2013
pgw-wrf-conus	Cont. US	1 hr, 4 km	pseudo global warm.	10/2000-09/2013

Automatic subsetting of WRF derived climate change scenario forcings

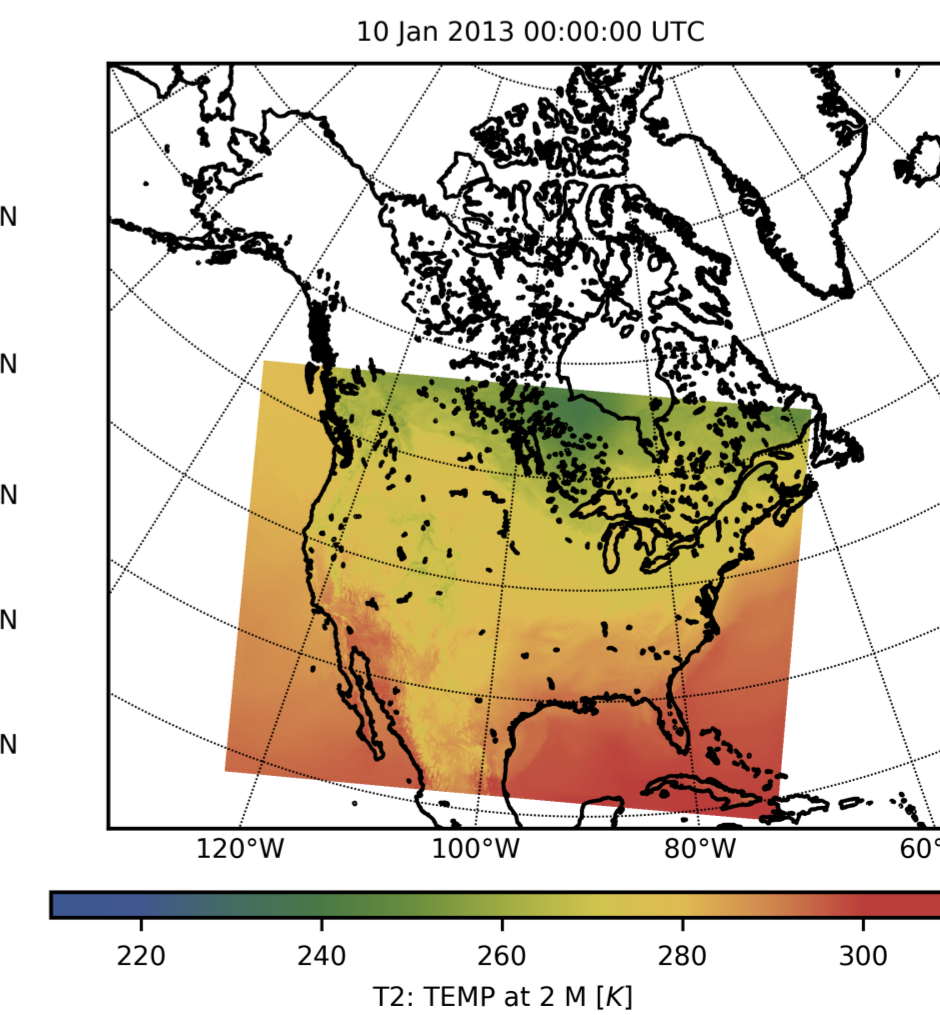
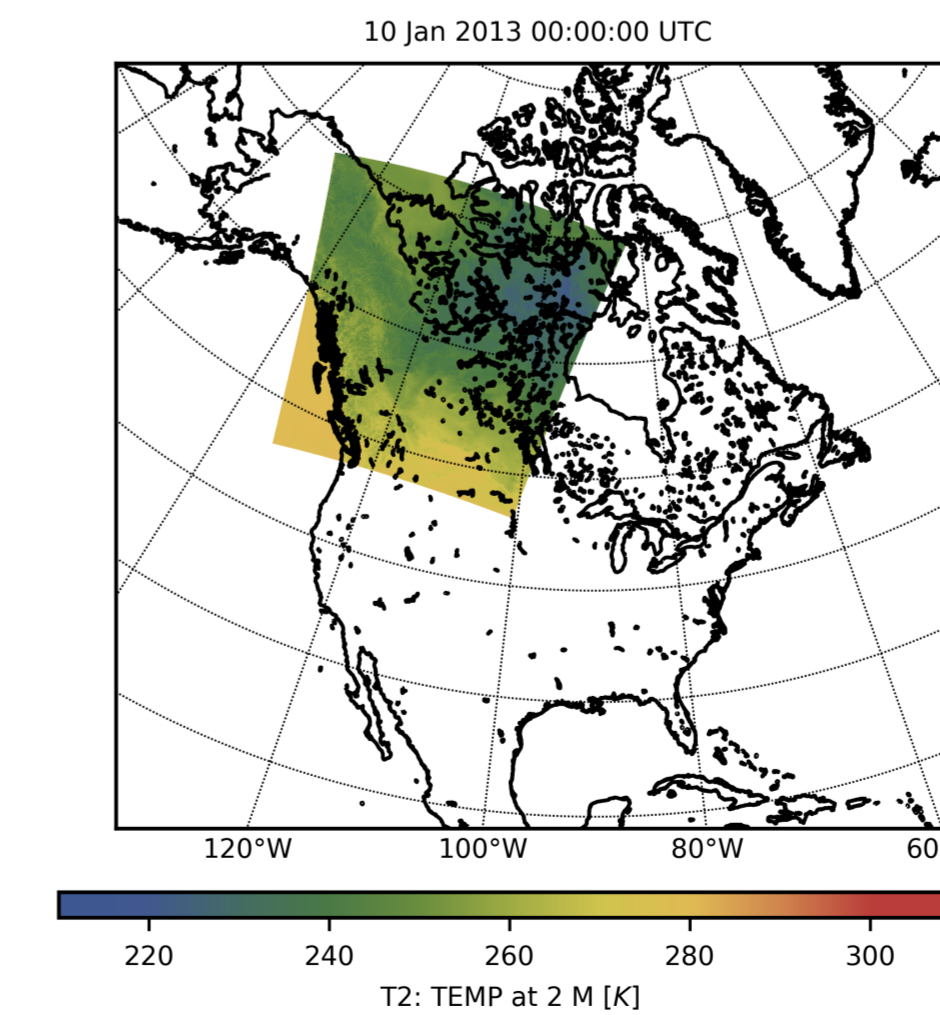
Juliane Mai (U of Waterloo) Zhenhua Li (U of Saskatchewan)

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Variable	Description	Level	Unit
PREC	Grid-scale precipitation (accumulated over 1 hour)	SFC	$[mm\ h^{-1}]$
T2	Temperature	2 m	$[K]$
LH	Latent heat flux	SFC	$[W\ m^{-2}]$
HFX	Upward heat flux	SFC	$[W\ m^{-2}]$
QFX	Upward moisture flux	SFC	$[kg\ m^{-2}\ s^{-1}]$
GLW	Downward long wave flux	SFC	$[W\ m^{-2}]$
SWDOWN	Downward short wave flux	SFC	$[W\ m^{-2}]$
PSFC	Surface pressure	SFC	$[Pa]$
Q2	Mixing ratio	2 m	$[kg\ kg^{-1}]$
U10	U-component of the wind (along grid X axis)	10 m	$[m\ s^{-1}]$
V10	V-component of the wind (along grid Y axis)	10 m	$[m\ s^{-1}]$

3

```
[{"rings": [[[-130.0, 55.0], [-130.0, 60.0],
             [-110.0, 60.0], [-130.0, 55.0]]],
 "spatialReference": {"wkid": 4326, "latestWkid": 4326}}]
```



4

```
{
  "product": "ctl-wrf-wca",
  "user_id": "julemai",
  "request_id": "testrequest_999",
  "start_time": "2013-01-10",
  "end_time": "2013-06-25",
  "user_email": "juliane.mai@uwaterloo.ca",
  "variables": ["SWDOWN", "V10"],
  "bounding_geom": [{"rings": [[[-130.0, 55.0], [-130.0, 60.0],
                                [-110.0, 60.0], [-130.0, 55.0]]],
    "spatialReference": {"wkid": 4326,
                        "latestWkid": 4326}}]}
# domain as list of lat/lon in degrees
}
```