
Command Reference: TS Alias = readNDFD()

Read a time series from the NWS National Digital Forecast Database (NDFD)

Version 06.14.00, 2006-05-09, Color, Acrobat Distiller

The `TS Alias = readNDFD()` command reads a single time series from the NWS NDFD data server (see the **NDFD Input Type Appendix**) and assigns an alias to the result.

The command syntax is as follows:

```
TS Alias = readNDFD(param=value,...)
```

Command Parameters

Parameter	Description	Default
Alias	Alias for the new time series that is read from the NDFD, which can be used instead of the TSID by other commands.	None – must be specified.
TSID	The time series identifier used to query specific data from the NDFD data server.	None – must be specified.
NewUnits	The new units for the time series. The data values will be converted to these units.	Do not convert the units.
InputStart	The start of the period to read – specify if the read period should be different from the global query period. If the TSID states that this is a daily average data timeseries, specify a start date not a start date/time.	Use the global input period or if not specified read from the earliest date in the database.
InputEnd	The end of the period to read – specify if the read period should be different from the global query period. If the TSID states that this is a daily average data timeseries, specify the number of days to read otherwise specify an end date/time.	Use the global input period or if not specified read to the last data in the database.

A sample commands file to read all available 6 hour forecast qpf data is as follows:

```
TS precip = readNDFD(TSID="400120_1043012.NDFD.qpf-inst.6Hour~NDFD")
```

A sample commands file to read 6 hour qpf data for a specific period, and convert units to MM, is as follows:

```
TS precip = readNDFD(TSID="400120_1043012.NDFD.qpf-inst.6Hour~NDFD",NewUnits="MM",  
InputStart="2006-05-18 24",InputEnd="2006-05-22 24")
```

A sample commands file to read 24-hour average daily forecast of “12 Hour Probability of Precipitation” data as a time series is as follows:

```
TS precip = readNDFD(TSID="400120_1043012.NDFD.pop12-mean.Day~NDFD",  
    InputStart="2006-05-18", InputEnd="2006-05-25")
```

The following example commands file illustrates how to read two NWS forecast data time series from the NDFD server. The time series are upstream and downstream stations.

```
openNDFD()  
TS ts_up = readNDFD(TSID="400120_1044218.NDFD.qpf-inst.6Hour~NDFD",  
    InputStart="2006-05-18 24", InputEnd="2006-05-22 24")  
TS ts_dn = readNDFD(TSID="400115_1042010.NDFD.qpf-inst.6Hour~NDFD",  
    InputStart="2006-05-18 24", InputEnd="2006-05-22 24")
```