# REQUIRED FIELDS TO RUN MDTF DIAGNOSTICS

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#-- grid\_spec

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"grid\_spec", -1, "months", 1, "days", "time",

"dynamics", "grid\_lon", "grid\_lon", "grid\_spec", "all", .false., "none", 2

"dynamics", "grid\_lat", "grid\_lat", "grid\_spec", "all", .false., "none", 2

"dynamics", "grid\_lont", "grid\_lont", "grid\_spec", "all", .false., "none", 2

"dynamics", "grid\_latt", "grid\_latt", "grid\_spec", "all", .false., "none", 2

"dynamics", "area", "area", "grid\_spec", "all", .false., "none", 2

"dynamics", "bk", "bk", "grid\_spec", "all", .false., "none", 2

"dynamics", "pk", "pk", "grid\_spec", "all", .false., "none", 2

"flux", "land\_mask", "land\_mask", "grid\_spec", "all", .false., "none", 2

"dynamics", "zsurf", "zsurf", "grid\_spec", "all", .false., "none", 2

#--------------------------------------------------------------------------------------------------

#-- Monthly Data

#--------------------------------------------------------------------------------------------------

"atmos\_month\_cmip", 1, "months", 1, "days", "time",

"flux", "evspsbl", "evspsbl", "atmos\_month\_cmip", "all", .true., "none", 2

"moist", "pr", "pr", "atmos\_month\_cmip", "all", .true., "none", 2

"flux", "psl", "psl", "atmos\_month\_cmip", "all", .true., "none", 2

"atmos", "ps", "ps", "atmos\_month\_cmip", "all", .true., "none", 2

"atmos\_plev19", "zg", "zg\_unmsk", "atmos\_month\_cmip", "all", .true., "none", 2

"land\_month\_cmip", 1, "months", 1, "days", "time",

"land", "geolon\_t", "geolon\_t", "land\_month\_cmip", "all", .false., "none", 1

"land", "geolat\_t", "geolat\_t", "land\_month\_cmip", "all", .false., "none", 1

"cmor\_land", "mrsos", "mrsos", "land\_month\_cmip", "all", .true., "none", 2

#--------------------------------------------------------------------------------------------------

#-- Daily Data

#--------------------------------------------------------------------------------------------------

"atmos\_daily\_cmip", 24, "hours", 1, "days", "time",

"atmos\_plev19", "hus", "hus\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2

"radiation", "rlut", "rlut", "atmos\_daily\_cmip", "all", .true., "none", 2

"atmos\_plev19", "ua", "ua\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2

"atmos\_plev19", "va", "va\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2

"atmos\_plev19", "wap", "wap\_unmsk", "atmos\_daily\_cmip", "all", .true. , "none", 2

"atmos\_plev19", "zg", "zg\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2

"moist", "pr", "pr", "atmos\_daily\_cmip", "all", .true., "none", 2

"atmos", "ps", "ps", "atmos\_daily\_cmip", "all", .true., "none", 2

#--------------------------------------------------------------------------------------------------

#-- 6 hourly data

#--------------------------------------------------------------------------------------------------

"atmos\_4xdaily\_cmip", 6, "hours", 1, "days", "time",

"moist", "pr", "pr", "atmos\_4xdaily\_cmip", "all", .true., "none", 2

"moist", "prw", "prw", "atmos\_4xdaily\_cmip", "all", .true., "none", 2

"atmos", "ps", "ps", "atmos\_4xdaily\_cmip", "all", .true., "none", 2

"atmos\_plev19", "ta", "ta\_unmsk", "atmos\_4xdaily\_cmip", "all", .true., "none", 2

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1 1 1 0 0 0

# Simplified diag\_table for running AWG AMIP experiments

"grid\_spec", -1, "months", 1, "days", "time",

"atmos\_8xdaily", 3, "hours", 1, "days", "time",

"atmos\_4xdaily", 6, "hours", 1, "days", "time",

"atmos\_daily", 24, "hours", 1, "days", "time",

"atmos\_month", 1, "months", 1, "days", "time"

# #########

# grid\_spec

# #########

"dynamics", "grid\_lon", "grid\_lon", "grid\_spec", "all", .false., "none", 2

"dynamics", "grid\_lat", "grid\_lat", "grid\_spec", "all", .false., "none", 2

"dynamics", "grid\_lont", "grid\_lont", "grid\_spec", "all", .false., "none", 2

"dynamics", "grid\_latt", "grid\_latt", "grid\_spec", "all", .false., "none", 2

"dynamics", "area", "area", "grid\_spec", "all", .false., "none", 2

"dynamics", "bk", "bk", "grid\_spec", "all", .false., "none", 2

"dynamics", "pk", "pk", "grid\_spec", "all", .false., "none", 2

"flux", "land\_mask", "land\_mask", "grid\_spec", "all", .false., "none", 2

"dynamics", "zsurf", "zsurf", "grid\_spec", "all", .false., "none", 2

# ###########

# atmos\_daily

# ###########

#

"flux", "land\_mask", "land\_mask", "atmos\_daily", "all", .true., "none", 2

**"moist", "precip", "precip", "atmos\_daily", "all", .true., "none", 2**

# ###########

# atmos\_month

# ###########

"dynamics", "bk", "bk", "atmos\_month", "all", .false., "none", 2

"dynamics", "pk", "pk", "atmos\_month", "all", .false., "none", 2

"flux", "land\_mask", "land\_mask", "atmos\_month", "all", .false., "none", 2

**"moist", "precip", "precip", "atmos\_month", "all", .true., "none", 2**

##################

# Table: Lmon

# Version: 1.00.15

##################

"land", "geolon\_t", "geolon\_t", "land\_month\_cmip", "all", .false., "none", 1

"land", "geolat\_t", "geolat\_t", "land\_month\_cmip", "all", .false., "none", 1

**##. Moisture in Upper Portion of Soil Column, kg m-2 (longitude,latitude,time,sdepth1)**

**"cmor\_land", "mrsos", "mrsos", "land\_month\_cmip", "all", .true., "none", 2**

#################

# Table: Amon

# Version: 1.00.15

##################

"atmos\_month\_cmip", 1, "months", 1, "days", "time",

"atmos\_level\_cmip", 1, "months", 1, "days", "time",

##################

##. Auxiliary fields required for model level output

##################

"cmip", "ap", "ap", "atmos\_level\_cmip", "all", .false., "none", 1

"cmip", "b", "b", "atmos\_level\_cmip", "all", .false., "none", 1

"cmip", "ap\_bnds", "ap\_bnds", "atmos\_level\_cmip", "all", .false., "none", 1

"cmip", "b\_bnds", "b\_bnds", "atmos\_level\_cmip", "all", .false., "none", 1

"cmip", "lev\_bnds", "lev\_bnds", "atmos\_level\_cmip", "all", .false., "none", 1

"cmip", "ap\_half", "ap\_half", "atmos\_level\_cmip", "all", .false., "none", 1

"cmip", "b\_half", "b\_half", "atmos\_level\_cmip", "all", .false., "none", 1

# "dynamics", "area", "area", "atmos\_month\_cmip", "all", .false., "none",1

**##. Precipitation, kg m-2 s-1 (longitude,latitude,time)**

**"moist", "pr", "pr", "atmos\_8xdaily\_cmip", "all", .true., "none", 2**

**##. Precipitation, kg m-2 s-1 (longitude,latitude,time)**

**"moist", "pr", "pr", "atmos\_month\_cmip", "all", .true., "none", 2**

**##. Evaporation, kg m-2 s-1 (longitude,latitude,time)**

**"flux", "evspsbl", "evspsbl", "atmos\_month\_cmip", "all", .true., "none", 2**

**##. Geopotential Height, m (longitude,latitude,plev19,time)**

**"atmos\_plev19", "zg", "zg\_unmsk", "atmos\_month\_cmip", "all", .true., "none", 2**

**##. TOA Outgoing Longwave Radiation, W m-2 (longitude,latitude,time)**

**"radiation", "rlut", "rlut", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. Water Vapor Path, kg m-2 (longitude,latitude,time)**

**"moist", "prw", "prw", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. Precipitation Rate, m s-1 (longitude,latitude,time)**

**"moist", "pr", "pr", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. Precipitation, kg m-2 s-1 (longitude,latitude,time)**

**"moist", "pr", "pr", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. Eastward Wind, m s-1 (longitude,latitude,plev19,time)**

**"atmos\_plev19", "ua", "ua\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. Northward Wind, m s-1 (longitude,latitude,plev19,time)**

**"atmos\_plev19", "va", "va\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. Specific Humidity, 1.0 (longitude,latitude,plev19,time)**

**"atmos\_plev19", "hus", "hus\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2**

**##. omega (=dp/dt), Pa s-1 (longitude,latitude,plev19,time)**

**"atmos\_plev19", "wap", "wap\_unmsk", "atmos\_daily\_cmip", "all", .true. ,"none", 2**

**##. Geopotential Height, m (longitude,latitude,plev19,time)**

**"atmos\_plev19", "zg", "zg\_unmsk", "atmos\_daily\_cmip", "all", .true., "none", 2**