Sample GrADS ctl files for TRMM Level-3 Products:

Questions: gsfc-help-disc@lists.nasa.gov

1) 3A11

```
DSET 3A11.%y4%m201.7.HDF
OPTIONS template
DTYPE hdfsds
TITLE 3A25 5 degree products
UNDEF -9999.9
XDEF 72 LINEAR -177.500000 5.000000
YDEF 16 linear  -37.500000 5.000000
ZDEF 1 LEVELS 1 1
TDEF 300 LINEAR jan1998  1mo
VARS 1
monthRain=>mr    0  x,y monthly surface rain
ENDVARS
```

2) 3A12

```
DSET 3A12.%y4%m201.7.HDF
OPTIONS template
DTYPE hdfsds
TITLE This is only a test
UNDEF -9999.9
XDEF 720 LINEAR -179.7500000 0.5000000
YDEF  160 linear  -39.7500000 0.5000000
ZDEF 28 LEVELS 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12, 13, 1
4, 15, 16, 17, 18
TDEF 300 LINEAR jan1998  1mo
VARS 9
surfaceRain=>sfcr    0  x,y surface rain
surfacePrecipitation=>sfcp    0  x,y surface precip
convectPrecipitation=>convp    0  x,y convection precip
cldWater=>cldw    28  z,x,y cloud water
rainWater=>rainw    28  z,x,y rain water
cldIce=>cldi    28  z,x,y cloud ice
snow=>snow3d    28  z,x,y snow
graupel=>graupel3d    28  z,x,y graupel
latentHeat=>heat    28  z,x,y latent heat
ENDVARS
```

3) 3A25

```
DSET ^3A25.%y4%m201.7.HDF
OPTIONS template
DTYPE hdfsds
TITLE 3A25 5 degree products
UNDEF -9999.9
XDEF 72 LINEAR -177.500000 5.000000
YDEF 16 linear  -37.500000 5.000000
ZDEF 6 LEVELS 2 4 6 10 15 20
TDEF 300 LINEAR jan1998 1mo
VARS 6
surfRainMean1=>srm 0   x,y Precipitation
surfRainConvMean1=>src 0   x,y Precipitation conv
surfRainStratMean1=>srs 0   x,y Precipitation strat
rainMean1=>rm    6   z,x,y Precipitation
convRainMean1=>cr 6   z,x,y Precipitation conv
stratRainMean1=>sr 6   z,x,y Precipitation strat
ENDVARS
```

```
DSET ^3A25.%y4%m201.7.HDF
OPTIONS template
DTYPE hdfsds
TITLE This is only a test
UNDEF -9999.9
XDEF 720 LINEAR -179.7500000 0.5000000
YDEF  148 linear  -36.7500000 0.5000000
ZDEF 6 LEVELS 2 4 6 10 15 20
TDEF 300 LINEAR jan1998 1mo
VARS 6
surfRainMean2=>srm 0   x,y Precipitation
surfRainConvMean2=>src 0   x,y Precipitation conv
surfRainStratMean2=>srs 0   x,y Precipitation strat
rainMean2=>rm    6   z,x,y Precipitation
convRainMean2=>cr 6   z,x,y Precipitation conv
stratRainMean2=>sr 6   z,x,y Precipitation strat
ENDVARS
```

3) 3A26 (Note: multiple missing data in rainMeanTH)

```
DSET ^3A26.%y4%m201.7.HDF
OPTIONS template
```

```
DTYPE hdfsds
TITLE 3A26 5 degree products (multiple missing data)
UNDEF -777
XDEF 72 LINEAR -177.500000 5.000000
YDEF 16 linear  -37.500000 5.000000
ZDEF 4 LEVELS 2 4 6 20
TDEF 300 LINEAR jan1998 1mo
VARS 2
rainMeanTH=>rmth 4   z,x,y unconditional rain
rainCount=>rc 4   z,x,y rain count
ENDVARS
```

4) 3A46

```
DSET 3A46.%y2%m201.2.HDF
OPTIONS template yrev
DTYPE hdfsds
TITLE This is only a test
UNDEF -9999.9
XDEF 360 LINEAR -0.500000 1.000000
YDEF  180 linear  -89.500000 1.000000
ZDEF 1 LEVELS 1 1
TDEF 300 LINEAR jan1998  1mo
VARS 1
ssmiData=>sfcr    0  t,z,y,x surface rain
ENDVARS
```

5) 3B31

```
DSET 3B31.%y4%m201.7.HDF
OPTIONS template
DTYPE hdfsds
TITLE This is only a test
UNDEF -9999.9
XDEF 720 LINEAR -179.7500000 0.5000000
YDEF  160 linear  -39.7500000 0.5000000
ZDEF 28 LEVELS 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12, 13, 1
4, 15, 16, 17, 18
TDEF 300 LINEAR jan1998  1mo
VARS 9
surfacePrecipTMI=>sfcp    0  x,y surface precip
convectPrecipTMI=>sfcpc    0  x,y surface precip conv
```

```
surfacePrecipCOMB=>sfcpcb    0  x,y surface precip combined
rainWaterTMI=>rwtmi    28  z,x,y rain water
snowTMI=>snowtmi    28  z,x,y snow
graupelTMI=>graupeltmi    28  z,x,y graupel
rainWaterCOMB=>rwcb    28  z,x,y rain water
snowCOMB=>snowcb    28  z,x,y snow
graupelCOMB=>graupelcb    28  z,x,y graupel
ENDVARS
```

6) 3B42

```
DSET 3B42.%y4%m2%d2.%h2.7.HDF
options template
DTYPE hdfsds
TITLE This is for 3B42 V7
UNDEF -9999.90
XDEF 1440 LINEAR -179.87500000 0.25000000
YDEF  400 linear  -49.87500000 0.25000000
ZDEF 1 LEVELS 1 1
TDEF 100000 LINEAR 00:00Z01jan1998 3hr
VARS 6
precipitation=>pcp    0  x,y Precipitation
relativeError=>err    0  x,y Error
satPrecipitationSource=>source 0  x,y source
HQprecipitation=>hqp 0  x,y High quailty precip
IRprecipitation=>irp 0  x,y IR precip
satObservationTime=>time 0  x,y Time
ENDVARS
```

7) 3B43

```
DSET 3B43.%y4%m201.7.HDF
options template
DTYPE hdfsds
TITLE This is only a test
UNDEF -9999.90
XDEF 1440 LINEAR -179.87500000 0.25000000
YDEF  400 linear  -49.87500000 0.25000000
ZDEF 1 LEVELS 1 1
TDEF 300 LINEAR jan1998 1mo
VARS 3
precipitation=>pcp    0  x,y Precipitation
```

relativeError=>err 0 x,y Error
gaugeRelativeWeighting=>weight 0 x,y weight
ENDVARS

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