"diags_d02_FHHH.nc"

Here are, at a minimum, the variables contained in the "diags_d02_fHHH.nc" files. As the system is evolving, there may be a few additional fields than those listed here after certain dates. Two of the more important fields that were added after April 30, 2015 are listed as well.

Variable	Description
T2	2-m temperature
Q2	2-m mixing ratio
U10	10-m zonal wind
V10	10-m meridional wind
RAINC	Running total accumulated precipitation (parameterized)
RAINNC	Running total accumulated precipitation (explicit)
PREC_ACC_NC	1-hr accumulated precipitation (explicit)
GRAUPELNC	Total accumulated graupel
HAILNC	Total accumulated hail
HFX	Sensible upward heat flux at surface
LH	Latent heat flux at surface
SNOW	Snow water equivalent
SNOWH	Physical snow depth
SNOWC	Snow coverage flag (1 for snow cover)
SNOWNC	Running total accumulated snow (explicit)
SNOW_ACC_NC	1-hr accumulated snow (explicit)
HAIL_MAXK1	G. Thompson Hail field 1
HAIL_MAX2D	G. Thompson Hail field 2
WSPD10MAX	Hourly-max 10-m wind speed
W_UP_MAX	Hourly-max updraft speed
W_DN_MAX	Hourly-max downdraft speed
UP_HELI_MAX	Hourly-max 2-5-km updraft helicity >0
UP_HELI_MIN	Hourly-max 2-5-km updraft helicity < 0
W_MEAN	Hourly mean vertical velocity
GRPL_MAX	Hourly-max column integrated graupel
C_PBLH	Coniglio PBL height

LTG1_MAX	Lightning threat 1
LTG2_MAX	Lightning threat 2
LTG3_MAX	Lightning threat 3
AFWA_FZRA	Total accumulated freezing rain from AFWA diagnostic
AFWA_ICE	Total accumulated sleet from AFWA diagnostic
AFWA_MSLP	Sea-level pressure from AFWA diagnostic
AFWA_SNOWFALL	Total accumulated snowfall from AFWA diagnostic
REFD_MAX	Maximum column derived radar reflectivity
Beginning April 30, 2015	
RVORT1_MAX	Hourly-max relative vorticity at 1-km AGL
UP_HELI_MAX03	Hourly-max 0-3-km updraft helicity > 0

GRIB files

Here are, at a minimum, the variables contained in the "ncar_3km_YYYYMMDDCC_mem?_fHHH.{grb.gz,grb2}" files. As the system is evolving, there may be additional fields than those listed here after certain dates. In fact, beginning October 13, 2015, there are consistently more fields than listed below. Please see "README.grib2" for those records.

The variable names below correspond to those that we use when converting the GRIB files to NETCDF files (for plotting purposes). We did not archive the NETCDF files because they are larger.

Variable	Description
TROP_HEIGHT	Tropopause Height
DEWPOINT_2M	2-m Dewpoint
SR_HELICITY 0-3km	Storm relative helicity 0-3km
SFC_LI	Surface Lifted Index
PARCEL_LIFT_LEV	Press of level where parcel lifted
UBSHR1	zonal 0-1km shear
VBSHR1	meridional 0-1km shear
UBSHR6	zonal 0-6km shear
VBSHR6	meridional 0-6km shear
SBCAPE	Sfc based CAPE

SBCINH	Sfc based CINH
MLCAPE	Mixed layer CAPE
MLCINH	Mixed layer CIHN
BMIN_SFC	Sfc based Buoyancy minimum
PBMIN_SFC	Sfc based Press of BMIN
BMIN (mixed lyr)	Mixed layer BMIN
PBMIN (mixed lyr)	Mixed layer PBMIN
PVORT_320K	Potential vorticity on 320K isentrope
LCL_HEIGHT	LCL height above ground level
U_COMP_STM	zonal component of storm motion
V_COMP_STM	meridional component of storm motion
REFD 1KM AGL	1km AGL reflectivity
REFL_MAX_COL	Composite (column max) reflectivity
PWAT	Precipitable water
MSLP (SHUELL)	Sea level pressure (Sheull formulation from UPP)
CLD_TOP_TEMP	Cloud top temperature
GOESE TB-3 non	GOES East simulated water vapor
GOESE TB-4 non	GOES East simulated IR
GOESW TB-3 non	GOES West simulated water vapor
GOESW TB-4 non	GOES West simulated IR