**MRMS Precipitation Products for Level III during IFloodS**

**Geographical domain** - Lon [97W - 87W], Lat [40N - 45N]

The 1st pixel is at the NW corner (97W, 45N) of the IFloodS domain, and the last pixel is at the SE corner (87W, 40N) of the domain.

**Temporal domain** - May 1 - Jun 16, 2013

**Resolution** - 0.01 deg, 1h

There are **three Level-III products**:

**1HGCF**.HSR.YYYYMMDD.HH0000.asc,

**1HRQI**.YYYMMDD.HH0000.asc,

**1HCF**.HSR.YYYYMMDD.HH0000.asc

where YYYY is year, MM is month, DD is day, and HH is hour in UTC.

**1HGCF** - gauge corrected/filtered hourly radar precipitation rate [mm/h].

 Missing=-99.99

**1HRQI -** Radar quality index for the quality control purpose.

 It is the hourly averaged RQI value ranging from 0 to 100 (best value).

**1HCF** - Hourly radar-gauge ratio for the quantity control purpose.

It is the ratio between the hourly gauge-adjusted radar and the hourly radar-only products. The ratio ranges between 0.1 and 10. Missing=-99.99

**How to read the products?**

Here is an IDL code to read the *extracted IFLoodS Level-III NMQ data.*

*pro read\_extrated\_data*

; This is to read the *extracted IFLoodS Level-3 NMQ data*

*openr, lun, 'YourDataPath/YourFileName',/get\_lun*

*nx=1001 & ny=501*

*data=fltarr(nx,ny)*

*j=0L & line=''*

*while (not eof(lun)) do begin*

 *readf,lun,line*

 *data[0:nx-1,j]=strsplit(line,/extract)*

 *j++*

*endwhile*

*help,data*

free\_lun,lun

end