# Dartmouth Flood Observatory Flood Inundation Polygons File Names

*With thanks to Colin Lindeman, Pacific Disaster Center (PDC)*

**Contents:**



**Appendix:**



Current Naming Format started after February 20, 2003. After then, the 11-digit prefix numbers become 8-digit prefix numbers, as described in the DFO naming formats below. The following refer mainly to pre-2009 MapInfo or Shp. GIS file names.

## 1. DFO Naming Formats:

DFO Research Assistant Elaine Anderson provided this information:

**Current Naming Format Examples**:

20030371100Ebro055M2.29

20032030655Brama134Ma2_37

20031950300PoyYang147M2_32 (this one decoded below):

[20031950300] Date contains 11 digits and includes the year (4 digits), then the Julian day (3 digits), then the time of data acquisition (4 digits).

[PoyYang] This is a short name identifying the river or location.

[147] This is the DFO archive flood event number. The original archive contained a sequence of 1-x flood events, for each year. At present (2011), new numbers have been assigned, with the first flood event at the archive beginning (1985) assigned #1, and then simple sequential numbering to the present. The old DFO numbers are, however, provided for years prior to 2010 in the archive: http://floodobservatory.colorado.edu/Archives/index.html

[M2] This is a sensor code (in this case, Terra MODIS 250 meter data)

[32] This code is usually the NDVI density slice upper limit. However, several different methods, including the NDVI density slice, have been used to produce water inundation polygons .

**Examples of Older Flood Vector Names (year, month and day):**

20020330Danube042M250

20000912Viet049Mod9

20000709Chi033Ad (this one decoded below):

[20000709] Date contains 8 digits and contains the year (4 digits), month (2 digits) and day (2 digits)

[Chi] short location name

[033] DFO flood # (again, as coded by the year, with 1 the first flood, in January).

[Ad] sensor code

**The vectors sometimes exhibit only a 2 digit year:**

000603Ind026Lb (yr 2000, June 3, Indus River, DFO event 2000-026, Landsat browse data source)

990923Ind080Lb (yr 1999, September 23, Indus River, DFO event 1999-080, Landsat browse data source)

## 2. Observed Naming Format Deviations

Below is a list of filenames that do not conform to the naming convention.

<u>No DFO Number, Sensor, UNDVI</u>

1. 19911113LbfinalLL.shp
2. 20021790515GodavariF.shp
3. 20022120415IrawaddyF.shp
4. 20022170430TibetF.shp
5. 20022170610IndusHigh.shp
6. 20022330610UIndusHigh.shp

<u>No DFO Number, Sensor, UNDVI, number prefix has “x” in middle</u>

7. 2001292x0450BangF.shp
8. 2001294x0440BangF.shp
9. 2001295x0525GuntarF.shp

No DFO, order of attributes jumbled

10. 2002263aq0755UGangesF.shp

No DFO Number

11. 20050520640AfghSistanM2bm.shp

Numeric character in the short name

12. 20073160450BangB4SidrM2.47.shp
13. 20040010540Sula03.290Ma2.39
14. 20040050225Sulaw03.290M2.37

No DFO Number

15. 20002900500BramaTibetHM2.24.shp
16. 20031650605UIndusHM2.27.shp
17. 20032390330MekongHM2.35.shp
18. 20041240540SrinagarWetM2.40.shp
19. 20041840605IndusHM2.28.shp
20. 20042000605IndusHM2.29.shp
21. 20042390610IndusHM2.32.shp
22. 20042700215MindanaoWetM2.36.shp
23. 20042860215MindanoWetM2.41.shp
24. 20073160450BangWetM2.47.shp

No DFO number, Undefined sensor

25. 20043650315CenJavaFM2.37.shp
26. 20050010300CenJavaFM2.37.shp

The suffix “comp” is undefined

27. 20032650535WeiYellow219Ma2.comp.shp
28. 20032890310YelloWei219M2comp.shp

Two UNDVI values

29. 20032200610Ind165M2.24.31.shp
30. 20031810735BiharF134Ma2.32.35.shp

Too many prefix numbers

31. 20050216062554Pak019Aster.shp

Two DFO numbers/range

32. 20020808BiharNepal121-146M250.shp

## 3. Undefined prefix/suffix/sensors

Below is a list of found suffix or sensors that were are not defined here (to be done!).

Suffix:

- comp
- bm

Sensor (valid sensor codes are defined in Appendix A.):

- ed
- L7b
- FM2

## 4. Recommendations for Filename Formatting:

In order to facilitate interpreting the file names programmatically, PDC made suggestions for clarifying the file names in the future.

Specifically, the short name, sensor names, and UNDVI are problematic, because they have a variable length or can be omitted altogether. Adding a special character to delimit the end of one attribute from the beginning of the next in the file name makes it easier to automatically parse the file names. PDC recommended using the "_" character to separate values of the file name. For example:

Yeardayhour_shortname_DFO#_sensor_UNDVI_othersuffix

20070010100_Hawaii_001_M250_35_null

20070010100_Hawaii_001_null_null_M

In the previous example, missing values are represented by the word “null.” Missing values could also be omitted, meaning one or more underscores are adjacent:

20070010100_Hawaii_001___M

20070010100_Hawaii_001_M250_35_

PDC also recommended  a standard two digit month and two digit day format. The first set of numeric digits could take the form YYYYMMDDHHmm (Y = year, M = month, D = day of month, H = hour from 0 to 23, and m = minute from 0 to 59).

## Appendix: Sensor Codes

### Sensor Codes

| CODE | Sensor Name | Resolution |
|---|---|---|
| M2 | MODIS Terra 250 | approximately 250m pixels |
| Ma2 | MODIS Aqua 250 | approximately 250m pixels |
| Ma25 | MODIS Aqua 250m combined with band 7 from 500m data | |
| M25 | MODIS Terra 250m combined with band 6 from 500m data | |
| Aq | MODIS Aqua 250 | (old notation) approximately 250m pixels |
| M250 | MODIS Terra 250 | (old notation) approximately 250m pixels |
| Maq250 | MODIS Aqua 250 | (old notation) approximately 250m pixels |
| Mod9 | MODIS 9 day aggregate | approximately 500m pixel |
| L7 | Landsat7 | approximately 30m pixels |
| L5 | Landsat5 | |
| Lb | Landsat7 browse image | approximately 250m pixels |
| A | Avhrr | approximately 1 km pixels |
| Ad | AVHRR at day | approximately 1 km pixels |
| An | AVHRR at night | approximately 1 km pixels, using thermal bands |
| As | Aster | approximately 15m pixels |
| AST | Aster | |
| R | radarsat | resolution varies, usually 28m pixels for Standard beam, 100m pixels for Wide beam. |
| Rsat | radarsat | resolution will vary with type of data |
| SPOT | Spot | |