

File: wetland\_global\_extent\_1993\_2007\_Papa\_et al\_2010\_Prigent\_et al\_2012.dat

Description:

The data are gridded on an equal area grid of  $0.25\text{deg} \times 0.25\text{deg}$  at the equator.

Each grid is 773km in surface. The file contains the surface water extent for each month for 15 years (1993-2007) for each pixel on the land surfaces.

Non-inundated pixels, as well as land pixels with snow or ice and coastal pixels, are set to -99.00.

To read the ascii file in fortran:

c integer icell, imonth

c real alat, alon, surf(180)

read(30,\*) icell, alat, alon, (surf(imonth),imonth=1,180)

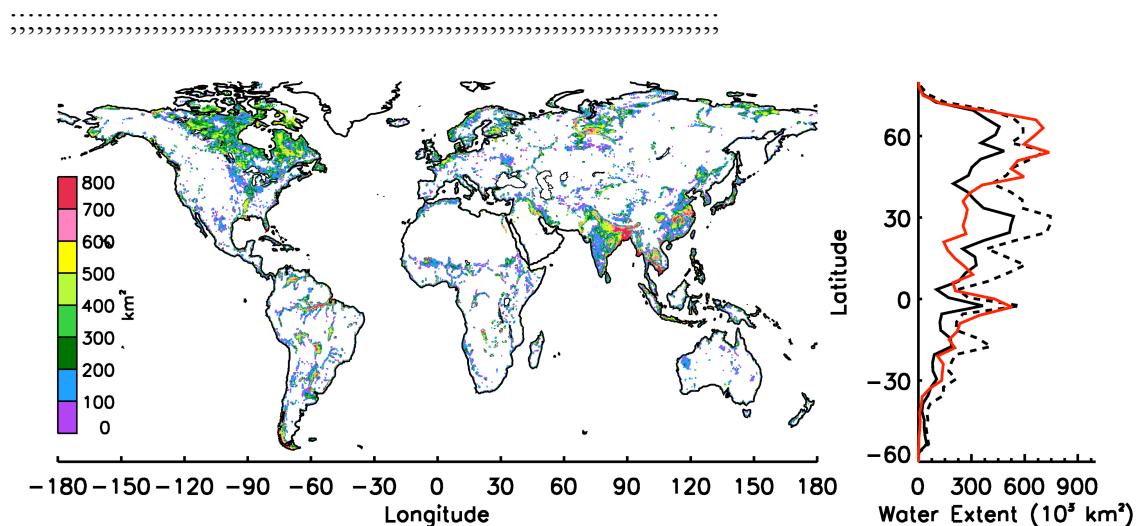
c icell = for internal use only

c alat = latitude between -90 and 90 of the center of the pixel

c alon = longitude between 0 and 360 of the center of the pixel

c surf(imonth) = wetland surface in km<sup>2</sup> (from 0 to 773) for the month for the 773km<sup>2</sup> pixel

imonth=1,180 for 01/1993 to 12/2007



Global map of the annual maximum surface water extent (averaged over 1993-2007) derived from the multi-satellite method. The spatial resolution is 773 km<sup>2</sup> (i.e., equal area grid of  $0.25^\circ \times 0.25^\circ$  at the equator). Also shown are the latitudinal distributions of global surface water for three estimates: 1) the annual maximum surface water extent averaged over 1993-2004 (as shown on the map, solid black line), 2) the maximum surface water extent reached for each pixel over 1993-2007 (broken black line) and 3) the surface water extent from the Global Lakes and Wetlands Database (GLWD Level 3, red line) from Lehner and Doll [2004]. Surface water extent values are aggregated in steps of 3 degrees. Adapted from Papa et al., 2010 and Prigent et al., 2012.

References: (available <http://www.legos.obs-mip.fr/papa> or  
<http://aramis.obspm.fr/~prigent/publication.html>)

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