UNEP/GRID Documentation Summary for Data Set:

Vegetation Index Data in Asian Region

This data set was produced by the National Institute for Environmental Studies (NIES) of the Environment Agency of Japan and GRID-Tsukuba. It shows Asian Vegetation Index generated at the dry season (from December to March) in 1985-1986, 198901990, 1992-1993.

This data set was developed by mosaicing of total eleven NOAA/AVHRR LAC mode scenes in order to obtain a cloud-free image. The vegetation index was computed from the mosaiced image, which could represent the wide-range distribution of vegetative conditions in the regions including India, Indo-China and Peninsular Malaysia.

The original AVHRR data were radiometrically calibrated and geometrically corrected. Then they were mosaiced to create a wide-range cloud-free image.

Cloud was eliminated at the overlapping regions of plural images by selecting the pixel which has the highest value of NVI among the overlapping pixels. The CVI was computed using channel 1 and 2 of the mosaiced image. Data value is specified as the following inverse CVI.

$$\text{Data value} = 255 - \text{CVI}$$

Finally, water areas were masked by the value of zero. All the data files consist of 3500 lines by 4400 pixels.

UNEP/GRID Documentation Summary for Data Set:

CO_2 discharged from fossile fuel consumption and cement production

This data set was produced by Prof. Matsuoka (Kyoto University, Japan) and the National Institute for Environmental Studies (NIES).
One degree latitude and longitude gridded CO_2 emission data set was created based on the following scenarios.

1950 - 1985 : National CO_2 emission estimates derived from fossil fuels and cement manufacturing (Marland et al.)

1990 - 2100 : CO_2 emission estimated by a revised ASF model (IRS91 scenario was used)

a) calculated value; not altered

b) calculated value after 1990 for developed countries - USA, OECDW, OECDE were adjusted to values in 1990.

This data set includes a total of 54 data files. 8 data files show estimates from 1950 through 1985, 24 data files show estimates based on the BaU scenario (IRS91) and 24 files show estimates based on the scenario which restricts discharge from developed countries. Each data file is in ASCII format and each data is able to be accessed sequentially. Unit of each data is Mt C/km^2.

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