

The files contain the first version of the integrated water vapor (IWV) estimates obtained by use GPS (Global Positioning System) data collected during GPM-CHUVA experiment.

There is a directory for each GPS stations belonging to campaign. These directories and files are denominated with 4 letters to indicate the station name.

The names, coordinates and periods available of each GPS station are:

BSMG: GPM-CHUVA-BELEM São Miguel do Guamá-PA

Latitude: -1.623761156
Longitude: -47.47907453
Geometric Altitude: 10.974 m
Begin: 151 (31/05/2011) 21:00
End: 185 (04/07/2011) 23:55
Meteorological station used: Station Vaisala F2910032

BTLG: GPM-CHUVA-BELEM Telégrafo-PA

Latitude: -1.4272226
Longitude: -48.48833086
Geometric Altitude: 6.275 m
Begin: 145 (25/05/2011) 15:30
End: 185 (04/07/2011) 23:55
Meteorological station used: Station Vaisala F2910020

BSPC: GPM-CHUVA-BELEM Santa Isabel do Pará-PA

Latitude: -1.352908067
Longitude: -48.13260799
Geometric Altitude: 8.251 m
Begin: 142 (22/05/2011) 00:00
End: 183 (02/07/2011) 12:55
Meteorological station used: Station Vaisala F2910026

BSSG: GPM-CHUVA-BELEM Vigia-PA

Latitude: -0.903715594
Longitude: -48.10081335
Geometric Altitude: 14 m
Begin: 142 (22/05/2011) 16:20
End: 183 (02/07/2011) 16:55
Meteorological station used: Station Vaisala F2910014

BABT: GPM-CHUVA-BELEM Abaetetuba-PA

Latitude: -1.694123397
Longitude: -48.79757961
Geometric Altitude: 11.5 m
Begin: 143 (23/05/2011) 23:15
End: 187 (06/07/2011) 15:55
Meteorological station used: Station Vaisala F2910017

BVCB: GPM-CHUVA-BELEM Vila dos Cabanos-PA

Latitude: -1.51919505
Longitude: -48.68473347
Geometric Altitude: 0.252 m
Begin: 145 (25/05/2011) 00:00

End: 163 (12/06/2011) 17:45
 Meteorological station used: Station Vaisala F2910005

BJRN: GPM-CHUVA-BELEM Jurunas-PA
 Latitude: -1.470286759
 Longitude: -48.49075854
 Geometric Altitude: 3 m
 Begin: 144 (24/05/2011) 23:00
 End: 185 (04/07/2011) 18:55
 Meteorological station used: Station Vaisala F2910015

BMGR: GPM-CHUVA-BELEM Mangeirão-PA
 Latitude: -1.376038431
 Longitude: -48.43791428
 Geometric Altitude: 3.270 m
 Begin: 145 (25/05/2011) 22:05
 End: 183 (02/07/2011) 19:55
 Meteorological station used: Station Vaisala F2910011

BAGB: GPM-CHUVA-BELEM Águas Brancas-PA
 Latitude: -1.388224036
 Longitude: -48.37170737
 Geometric Altitude: 5.092 m
 Begin: 146 (26/05/2011) 14:55
 End: 185 (04/07/2011) 23:55
 Meteorological station used: Station Vaisala F2910018

UFPA: GPM-CHUVA-BELEM Guamá-UFPA-PA
 Latitude: -1.474897284
 Longitude: -48.45784567
 Geometric Altitude: 2.145 m
 Begin: 168 (17/06/2011) 20:30
 End: 185 (04/07/2011) 17:10
 Meteorological station used: Automatic Station Model Davis

BMSQ: GPM-CHUVA-BELEM Mosqueiro-PA
 Latitude: -1.126213839
 Longitude: -48.43290173
 Geometric Altitude: 8.749 m
 Begin: 148 (28/05/2011) 19:20
 End: 182 (01/07/2011) 16:55
 Meteorological station used: Station Vaisala F2910010

BSOR: GPM-CHUVA-BELEM Soure-PA
 Latitude: -0.725351984
 Longitude: -48.51656749
 Geometric Altitude: 10.292 m
 Begin: 149 (29/05/2011) 16:25
 End: 190 (09/07/2011) 10:55
 Meteorological station used: Station Vaisala F2910003

BSPM: GPM-CHUVA-BELEM SIPAM-PA
 Latitude: -1.408834592
 Longitude: -48.46251348
 Geometric Altitude: 6.368 m
 Begin: 168 (17/06/2011) 13:10
 End: 188 (07/07/2011) 13:55
 Meteorological station used: Automatic Station Model Davis

BEMA: GPM-CHUVA-BELEM DTCEA-EMA-PA
Latitude: -1.389082594
Longitude: -48.48255997
Geometric Altitude: 9.832 m
Begin: 168 (17/06/2011) 19:45
End: 188 (07/07/2011) 12:15
Meteorological station used: Automatic Station Model Davis

BBNV: GPM-CHUVA-BELEM Benevides-PA
Latitude: -1.307336028
Longitude: -48.28572706
Geometric Altitude: 13.631 m
Begin: 160 (09/06/2011) 14:55
End: 181 (30/06/2011) 13:40
Meteorological station used: Automatic Station Model Davis

The data are presented in the following columns:

1. Date (YYYYMMDDHHMI) (GMT)
2. Simple second Julian of the year - (GMT)
3. Integrated Water Vapor (IWV) - [kg/m²]

PS. Simple Second Julian is equal to number of second of the year in the required date.

For instance a measurement done at 15:30:18 GMT at Marc 2nd, 2010 has Simple Second Julian equal to 5239818.

Supplementary information about this version, contact:
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