**Table S2. List of ddt\_ic measurements and estimated standard errors\***

\*The total number of ddt\_ic measurements is 291. The outer-core (OC) phase BC or AB is used in computing ddt\_ic. The upper parts of the table is ddt(BC-DF) measurements (total 209) and the lower part of the table is ddt(AB-DF) measurements (total 82); the two parts are separated by a blank line. The subscripts df1, df2, and oc1 and oc2 denote the DF phase of the earlier and the later events, and the BC (or AB) phase of the earlier and the later events, respectively.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Doublet ID | Station | Distance (°) | ddt\_ic  (s) | dt(DF)  (s) | dt(OC) (s) | SNRdf1 | SNRoc1 | SNRdf2 | SNRoc2 | error  (s) |
| 1992322\_2015353 | II.AAK | 150.1 | -0.006 | -1.085 | -1.091 | 9.10 | 200.17 | 32.16 | 887.67 | 0.0194 |
| 1993197\_2015070 | IU.CHTO | 150.1 | 0.003 | 0.533 | 0.536 | 5.23 | 23.49 | 9.39 | 38.81 | 0.0303 |
| 1995180\_2011109 | II.AAK | 152.7 | 0.016 | 3.044 | 3.060 | 4.13 | 54.72 | 13.28 | 172.08 | 0.0339 |
| 1995180\_2011109 | KN.AML | 152.1 | 0.053 | 2.026 | 2.079 | 9.81 | 107.26 | 10.42 | 109.35 | 0.0218 |
| 1995180\_2011109 | KN.EKS2 | 152.1 | -0.038 | 2.136 | 2.098 | 14.19 | 123.81 | 13.58 | 124.59 | 0.0183 |
| 1995180\_2011109 | KN.KBK | 153.0 | -0.036 | 2.125 | 2.089 | 8.56 | 38.95 | 6.83 | 27.49 | 0.0269 |
| 1995180\_2011109 | KN.KZA | 153.3 | -0.002 | 2.084 | 2.082 | 4.91 | 28.79 | 8.14 | 49.03 | 0.0323 |
| 1995180\_2011109 | KN.TKM2 | 153.4 | -0.017 | 2.106 | 2.089 | 18.09 | 58.59 | 18.08 | 60.17 | 0.0166 |
| 1995180\_2011109 | KN.UCH | 152.7 | -0.003 | 2.086 | 2.083 | 12.68 | 132.07 | 13.47 | 141.46 | 0.0189 |
| 1995180\_2011109 | KN.USP | 152.6 | 0.034 | 2.082 | 2.116 | 9.20 | 76.92 | 7.01 | 47.41 | 0.0259 |
| 1995180\_2011109 | KZ.CHKZ | 147.3 | 0.130 | 2.059 | 2.189 | 29.63 | 215.98 | 35.32 | 212.89 | 0.0144 |
| 1995180\_2011109 | KZ.ZRN | 146.6 | 0.119 | 1.945 | 2.064 | 85.60 | 255.12 | 63.54 | 240.89 | 0.0136 |
| 1995180\_2011109 | PS.PSI | 147.9 | -0.010 | 2.043 | 2.033 | 6.02 | 60.29 | 6.21 | 77.44 | 0.0315 |
| 1997098\_2014171 | GT.LBTB | 150.1 | -0.019 | 1.642 | 1.623 | 6.28 | 89.03 | 6.69 | 94.25 | 0.0300 |
| 1997128\_2011122 | IU.CHTO | 148.5 | 0.004 | 1.684 | 1.688 | 36.68 | 108.94 | 30.23 | 106.29 | 0.0144 |
| 1997190\_2014132 | GT.LPAZ | 148.5 | 0.061 | -0.487 | -0.426 | 13.75 | 46.44 | 7.96 | 24.68 | 0.0226 |
| 1997293\_2006231 | GE.MORC | 153.4 | -0.049 | -4.935 | -4.984 | 4.82 | 10.97 | 5.41 | 20.63 | 0.0378 |
| 1998080\_2010254 | IC.ENH | 152.4 | 0.004 | -4.789 | -4.785 | 14.72 | 47.40 | 11.44 | 40.92 | 0.0193 |
| 1998080\_2010254 | IC.XAN | 149.0 | -0.045 | -4.728 | -4.773 | 8.73 | 28.28 | 9.18 | 34.58 | 0.0239 |
| 1998113\_2006198 | IU.ANTO | 148.4 | -0.049 | -2.506 | -2.555 | 4.54 | 14.01 | 6.35 | 16.91 | 0.0368 |
| 1998229\_2010223 | IU.SSPA | 146.8 | -0.045 | 2.949 | 2.904 | 24.50 | 184.13 | 17.67 | 137.60 | 0.0159 |
| 1998229\_2010223 | US.GOGA | 152.5 | -0.004 | 2.915 | 2.911 | 9.43 | 67.75 | 11.50 | 84.55 | 0.0216 |
| 1998229\_2010223 | US.MIAR | 147.0 | 0.003 | 3.008 | 3.011 | 11.65 | 302.07 | 14.34 | 359.69 | 0.0190 |
| 1998229\_2010223 | US.OXF | 149.1 | 0.001 | 2.904 | 2.905 | 5.45 | 62.25 | 6.87 | 77.87 | 0.0318 |
| 1998281\_2009304 | US.MIAR | 146.7 | -0.032 | -4.346 | -4.378 | 15.64 | 117.53 | 12.92 | 75.83 | 0.0182 |
| 1998289\_2010263 | II.BRVK | 147.1 | 0.071 | -1.338 | -1.267 | 6.09 | 26.94 | 9.96 | 39.72 | 0.0274 |
| 1998289\_2010263 | KN.AAK | 152.5 | 0.055 | -1.338 | -1.283 | 8.74 | 61.56 | 9.26 | 60.65 | 0.0236 |
| 1998289\_2010263 | KN.AML | 152.0 | 0.048 | -1.324 | -1.276 | 8.93 | 47.53 | 9.01 | 50.13 | 0.0237 |
| 1998289\_2010263 | KN.EKS2 | 152.0 | 0.047 | -1.349 | -1.302 | 11.18 | 49.11 | 13.00 | 71.85 | 0.0198 |
| 1998289\_2010263 | KN.KBK | 152.9 | -0.027 | -1.250 | -1.277 | 5.15 | 20.18 | 5.00 | 19.95 | 0.0373 |
| 1998289\_2010263 | KN.TKM2 | 153.3 | 0.008 | -1.288 | -1.280 | 9.64 | 20.41 | 8.63 | 27.15 | 0.0239 |
| 1998289\_2010263 | KN.ULHL | 153.9 | 0.019 | -1.289 | -1.270 | 8.66 | 24.34 | 4.28 | 15.63 | 0.0354 |
| 1998289\_2010263 | KN.USP | 152.4 | 0.031 | -1.315 | -1.284 | 3.97 | 18.98 | 8.44 | 41.51 | 0.0371 |
| 1998289\_2010263 | KZ.VOS | 147.7 | 0.085 | -1.378 | -1.293 | 14.46 | 69.47 | 25.64 | 95.83 | 0.0166 |
| 1999032\_2010214 | US.MIAR | 147.4 | 0.010 | -3.183 | -3.173 | 5.01 | 71.01 | 13.63 | 175.76 | 0.0294 |
| 1999213\_2009111 | GT.BOSA | 152.6 | -0.020 | -2.180 | -2.200 | 8.78 | 25.69 | 8.15 | 26.22 | 0.0250 |
| 1999269\_2013305 | GE.SNAA | 149.5 | -0.011 | -5.460 | -5.471 | 8.83 | 36.92 | 7.23 | 31.58 | 0.0260 |
| 2000029\_2014195 | IU.HKT | 147.0 | 0.001 | -0.012 | -0.011 | 5.41 | 74.52 | 19.43 | 198.35 | 0.0271 |
| 2000029\_2014195 | IU.LVC | 148.9 | 0.016 | -0.010 | 0.006 | 8.31 | 20.33 | 11.72 | 32.00 | 0.0231 |
| 2000029\_2014195 | IU.WVT | 147.6 | 0.004 | -0.014 | -0.010 | 7.82 | 194.49 | 36.98 | 941.55 | 0.0209 |
| 2000029\_2014195 | US.GOGA | 151.9 | -0.025 | 0.031 | 0.006 | 4.72 | 20.17 | 27.11 | 124.60 | 0.0299 |
| 2000029\_2014195 | US.MCWV | 147.6 | -0.017 | -0.004 | -0.021 | 20.78 | 48.01 | 49.28 | 135.38 | 0.0149 |
| 2000157\_2006075 | NM.PLAL | 149.3 | 0.063 | 0.198 | 0.261 | 6.84 | 50.20 | 9.51 | 80.73 | 0.0259 |
| 2000157\_2012315 | NM.PLAL | 149.3 | 0.094 | -4.237 | -4.143 | 6.84 | 50.20 | 8.22 | 71.76 | 0.0270 |
| 2000157\_2012315 | US.GOGA | 152.4 | -0.015 | -4.152 | -4.167 | 6.22 | 25.12 | 5.62 | 21.88 | 0.0328 |
| 2000161\_2001045 | US.GOGA | 151.2 | 0.002 | 0.102 | 0.104 | 8.15 | 30.14 | 9.41 | 30.22 | 0.0244 |
| 2000329\_2004143 | GE.MORC | 149.3 | -0.039 | -0.851 | -0.890 | 5.58 | 36.13 | 4.96 | 35.28 | 0.0359 |
| 2000338\_2013111 | GT.LBTB | 147.8 | 0.016 | -1.161 | -1.145 | 41.84 | 496.71 | 22.82 | 288.97 | 0.0147 |
| 2001007\_2009212 | IU.WVT | 148.7 | -0.001 | 1.494 | 1.493 | 7.55 | 157.65 | 6.16 | 139.14 | 0.0290 |
| 2001007\_2009212 | NM.UALR | 147.6 | -0.007 | 1.531 | 1.524 | 15.44 | 19.15 | 9.65 | 11.88 | 0.0219 |
| 2001047\_2008292 | US.JCT | 146.6 | 0.000 | -6.615 | -6.615 | 35.67 | 136.20 | 42.47 | 159.57 | 0.0141 |
| 2001077\_2011184 | IU.CHTO | 148.2 | 0.008 | 4.572 | 4.580 | 13.72 | 67.69 | 5.91 | 35.28 | 0.0264 |
| 2001147\_2006137 | NM.PLAL | 147.9 | 0.018 | 6.311 | 6.329 | 12.78 | 51.15 | 9.07 | 28.60 | 0.0216 |
| 2001147\_2010204 | US.JCT | 146.3 | -0.019 | 6.667 | 6.648 | 14.25 | 110.21 | 8.99 | 60.28 | 0.0210 |
| 2001310\_2014141 | II.AAK | 150.0 | 0.004 | 1.106 | 1.110 | 7.43 | 176.48 | 6.77 | 149.69 | 0.0280 |
| 2001310\_2014141 | IU.MAKZ | 153.6 | 0.034 | 1.125 | 1.159 | 15.90 | 85.97 | 12.43 | 47.83 | 0.0184 |
| 2001310\_2014141 | KN.EKS2 | 149.5 | -0.006 | 1.143 | 1.137 | 5.26 | 128.43 | 6.69 | 127.00 | 0.0326 |
| 2001310\_2014141 | KN.TKM2 | 150.8 | 0.048 | 1.091 | 1.139 | 15.21 | 129.73 | 9.70 | 73.86 | 0.0201 |
| 2001310\_2014141 | KN.UCH | 150.1 | 0.047 | 1.078 | 1.125 | 12.64 | 202.43 | 11.21 | 200.32 | 0.0198 |
| 2001310\_2014141 | KZ.KURK | 149.7 | -0.025 | 1.041 | 1.016 | 5.49 | 42.68 | 10.78 | 88.12 | 0.0285 |
| 2001310\_2014141 | KZ.MKAR | 153.8 | 0.033 | 1.043 | 1.076 | 26.14 | 153.98 | 18.33 | 92.20 | 0.0157 |
| 2002006\_2011260 | GT.PLCA | 147.1 | -0.083 | -3.867 | -3.950 | 12.94 | 54.04 | 6.05 | 42.10 | 0.0262 |
| 2002048\_2007199 | US.MIAR | 146.9 | 0.032 | -0.808 | -0.776 | 5.75 | 135.73 | 6.15 | 85.27 | 0.0322 |
| 2002248\_2009247 | IU.WVT | 148.0 | -0.075 | -1.682 | -1.757 | 8.25 | 219.58 | 5.18 | 148.60 | 0.0310 |
| 2002248\_2009247 | NM.UALR | 147.4 | 0.032 | -1.770 | -1.738 | 5.60 | 29.39 | 4.86 | 27.41 | 0.0363 |
| 2002248\_2009247 | US.JCT | 146.5 | 0.019 | -1.700 | -1.681 | 35.54 | 471.57 | 35.04 | 500.43 | 0.0142 |
| 2002248\_2009247 | US.MIAR | 147.0 | -0.016 | -1.636 | -1.652 | 9.15 | 167.50 | 6.20 | 97.28 | 0.0274 |
| 2002248\_2017312 | US.JCT | 146.5 | 0.021 | 0.226 | 0.247 | 35.50 | 837.29 | 25.32 | 572.55 | 0.0146 |
| 2002248\_2017312 | US.MIAR | 147.0 | -0.043 | 0.319 | 0.276 | 8.72 | 242.46 | 6.54 | 155.45 | 0.0270 |
| 2002275\_2013284 | US.JCT | 147.4 | 0.020 | -2.193 | -2.173 | 12.65 | 66.41 | 12.11 | 52.00 | 0.0195 |
| 2002275\_2013284 | US.MIAR | 147.6 | -0.007 | -2.127 | -2.134 | 5.81 | 24.64 | 6.14 | 36.35 | 0.0323 |
| 2003019\_2013205 | US.JCT | 146.3 | 0.009 | -1.071 | -1.062 | 6.11 | 83.45 | 8.98 | 91.93 | 0.0278 |
| 2003142\_2013019 | GT.PLCA | 147.5 | -0.011 | 1.373 | 1.362 | 8.38 | 59.07 | 11.63 | 113.68 | 0.0225 |
| 2003142\_2013019 | IU.SDV | 154.3 | 0.007 | 1.340 | 1.347 | 27.26 | 31.92 | 15.86 | 20.73 | 0.0169 |
| 2003149\_2017154 | IU.TRQA | 149.6 | -0.017 | -1.530 | -1.547 | 4.61 | 39.28 | 9.11 | 60.24 | 0.0328 |
| 2003183\_2008055 | IU.HKT | 148.8 | -0.002 | 2.244 | 2.242 | 7.21 | 44.62 | 5.84 | 43.45 | 0.0303 |
| 2003183\_2008055 | IU.WVT | 146.4 | -0.014 | 2.230 | 2.216 | 10.80 | 225.02 | 5.99 | 140.84 | 0.0270 |
| 2003183\_2008055 | NM.PLAL | 147.4 | -0.014 | 2.227 | 2.213 | 8.41 | 77.48 | 8.16 | 91.26 | 0.0249 |
| 2003183\_2008055 | US.JCT | 146.2 | -0.007 | 2.302 | 2.295 | 15.38 | 152.47 | 34.59 | 342.29 | 0.0160 |
| 2003225\_2017263 | US.LRAL | 146.7 | 0.008 | 3.365 | 3.373 | 5.21 | 64.83 | 8.61 | 90.87 | 0.0307 |
| 2003260\_2016261 | IU.WVT | 147.0 | -0.007 | -1.008 | -1.015 | 7.11 | 60.59 | 10.12 | 95.17 | 0.0250 |
| 2003260\_2016261 | NM.PLAL | 148.0 | -0.005 | -0.974 | -0.979 | 4.72 | 25.25 | 13.35 | 61.74 | 0.0309 |
| 2003260\_2016261 | US.JCT | 146.4 | 0.008 | -0.935 | -0.927 | 26.06 | 132.53 | 32.69 | 161.96 | 0.0147 |
| 2004143\_2009192 | CZ.KHC | 150.8 | 0.026 | -0.159 | -0.133 | 8.05 | 80.37 | 9.61 | 76.96 | 0.0240 |
| 2004143\_2012169 | CZ.KHC | 150.8 | -0.039 | 3.391 | 3.352 | 8.04 | 80.26 | 10.75 | 111.13 | 0.0233 |
| 2004251\_2011019 | II.BRVK | 147.4 | 0.064 | 3.105 | 3.169 | 7.57 | 47.13 | 11.72 | 63.03 | 0.0236 |
| 2004251\_2011019 | KN.AAK | 152.8 | 0.023 | 3.134 | 3.157 | 9.48 | 56.97 | 3.82 | 31.55 | 0.0373 |
| 2004251\_2011019 | KN.AML | 152.2 | -0.026 | 3.185 | 3.159 | 4.93 | 18.08 | 5.50 | 27.00 | 0.0365 |
| 2004251\_2011019 | KN.EKS2 | 152.2 | 0.046 | 3.097 | 3.143 | 14.57 | 63.48 | 5.50 | 27.22 | 0.0276 |
| 2004251\_2011019 | KN.TKM2 | 153.5 | -0.014 | 3.182 | 3.168 | 9.62 | 23.68 | 5.21 | 12.71 | 0.0310 |
| 2004251\_2011019 | KN.UCH | 152.8 | -0.001 | 3.153 | 3.152 | 21.85 | 93.21 | 11.54 | 45.50 | 0.0181 |
| 2004251\_2011019 | KN.USP | 152.7 | 0.037 | 3.101 | 3.138 | 9.39 | 41.58 | 5.94 | 29.74 | 0.0281 |
| 2004251\_2011019 | KZ.BVAR | 147.5 | 0.017 | 3.268 | 3.285 | 9.39 | 39.90 | 14.17 | 57.65 | 0.0208 |
| 2004251\_2011019 | KZ.CHKZ | 147.4 | 0.017 | 2.899 | 2.916 | 22.70 | 203.83 | 18.71 | 143.11 | 0.0158 |
| 2004251\_2011019 | KZ.VOS | 147.9 | 0.023 | 3.133 | 3.156 | 23.60 | 138.30 | 13.83 | 85.38 | 0.0169 |
| 2004251\_2011019 | KZ.ZRNK | 146.7 | 0.019 | 3.090 | 3.109 | 42.86 | 141.23 | 34.74 | 116.48 | 0.0141 |
| 2004252\_2012324 | II.BRVK | 147.4 | 0.025 | 1.014 | 1.039 | 11.05 | 72.47 | 12.84 | 85.87 | 0.0199 |
| 2004252\_2012324 | KN.UCH | 152.8 | 0.017 | 0.988 | 1.005 | 12.33 | 73.28 | 5.90 | 36.99 | 0.0268 |
| 2004252\_2012324 | KN.USP | 152.6 | 0.023 | 0.955 | 0.978 | 10.80 | 51.16 | 5.10 | 16.64 | 0.0303 |
| 2004252\_2012324 | KZ.BVAR | 147.4 | 0.007 | 0.989 | 0.996 | 15.06 | 55.37 | 19.25 | 67.34 | 0.0170 |
| 2004252\_2012324 | KZ.KKAR | 149.7 | 0.004 | 0.972 | 0.976 | 8.09 | 37.28 | 4.97 | 23.51 | 0.0323 |
| 2004252\_2012324 | KZ.KURK | 153.0 | 0.024 | 0.963 | 0.987 | 6.56 | 34.08 | 7.23 | 33.99 | 0.0288 |
| 2004283\_2017341 | US.JCT | 146.6 | -0.002 | 1.598 | 1.596 | 11.01 | 168.58 | 5.07 | 94.14 | 0.0299 |
| 2004283\_2017341 | US.MIAR | 146.7 | 0.027 | 1.495 | 1.522 | 21.51 | 116.11 | 19.80 | 108.97 | 0.0158 |
| 2004361\_2005029 | XT.SIPC | 153.0 | 0.002 | -0.031 | -0.029 | 9.16 | 17.37 | 4.67 | 13.23 | 0.0335 |
| 2004361\_2005044 | XT.CAPC | 153.6 | 0.134 | -0.347 | -0.213 | 5.21 | 8.56 | 9.77 | 12.38 | 0.0325 |
| 2004361\_2005044 | XT.SIPC | 153.7 | 0.004 | -0.231 | -0.227 | 5.98 | 14.33 | 6.62 | 16.25 | 0.0318 |
| 2004362\_2006133 | G.FDF | 148.6 | 0.006 | -0.404 | -0.398 | 14.11 | 57.74 | 12.82 | 45.62 | 0.0188 |
| 2004362\_2006133 | IU.SJG | 149.8 | 0.015 | -0.415 | -0.400 | 10.54 | 33.33 | 11.20 | 42.00 | 0.0211 |
| 2004362\_2006133 | IU.TEIG | 154.3 | -0.019 | -0.387 | -0.406 | 6.09 | 19.63 | 6.89 | 25.57 | 0.0306 |
| 2004365\_2005029 | XT.SIPC | 153.0 | -0.020 | -0.022 | -0.042 | 11.52 | 25.47 | 4.64 | 13.14 | 0.0324 |
| 2004366\_2005044 | IU.LCO | 152.5 | 0.045 | -4.304 | -4.259 | 6.63 | 21.54 | 9.23 | 27.91 | 0.0269 |
| 2004366\_2005044 | XT.EDPC | 153.8 | -0.073 | 0.139 | 0.066 | 4.53 | 9.24 | 8.29 | 19.56 | 0.0353 |
| 2004366\_2005044 | XT.PAPC | 154.0 | 0.008 | 0.057 | 0.065 | 5.39 | 8.15 | 5.55 | 10.87 | 0.0371 |
| 2004366\_2005044 | XT.PRPC | 154.6 | 0.009 | 0.047 | 0.056 | 5.42 | 9.20 | 9.97 | 10.57 | 0.0318 |
| 2004366\_2005044 | XT.SIPC | 153.7 | 0.011 | 0.039 | 0.050 | 5.94 | 15.61 | 6.66 | 16.33 | 0.0318 |
| 2005071\_2006225 | PR.HUMP | 149.7 | -0.020 | -0.641 | -0.661 | 8.27 | 49.08 | 6.62 | 34.23 | 0.0274 |
| 2005088\_2010304 | II.KURK | 152.8 | -0.035 | -2.747 | -2.782 | 11.27 | 40.73 | 6.06 | 20.51 | 0.0271 |
| 2005088\_2010304 | KN.AAK | 152.5 | -0.023 | -2.767 | -2.790 | 6.85 | 44.32 | 7.24 | 55.74 | 0.0282 |
| 2005088\_2010304 | KN.AML | 152.0 | 0.011 | -2.811 | -2.800 | 9.30 | 38.02 | 7.37 | 34.54 | 0.0254 |
| 2005088\_2010304 | KN.EKS2 | 152.0 | -0.005 | -2.779 | -2.784 | 12.55 | 49.34 | 11.13 | 41.46 | 0.0201 |
| 2005088\_2010304 | KN.KBK | 152.9 | -0.019 | -2.781 | -2.800 | 7.23 | 19.46 | 5.86 | 17.35 | 0.0309 |
| 2005088\_2010304 | KN.TKM2 | 153.3 | -0.001 | -2.771 | -2.772 | 16.48 | 39.01 | 13.07 | 28.20 | 0.0184 |
| 2005088\_2010304 | KN.UCH | 152.6 | -0.024 | -2.768 | -2.792 | 15.93 | 66.87 | 13.58 | 51.96 | 0.0180 |
| 2005088\_2010304 | KN.USP | 152.5 | 0.004 | -2.772 | -2.768 | 14.05 | 56.05 | 7.61 | 33.32 | 0.0229 |
| 2005088\_2010304 | KZ.BVAR | 147.2 | 0.000 | -2.794 | -2.794 | 19.19 | 39.31 | 10.79 | 19.65 | 0.0193 |
| 2005088\_2010304 | KZ.CHKZ | 147.1 | 0.014 | -3.072 | -3.058 | 19.72 | 97.05 | 25.30 | 124.64 | 0.0155 |
| 2005088\_2010304 | KZ.VOS | 147.6 | 0.015 | -2.853 | -2.838 | 22.44 | 77.65 | 16.61 | 67.60 | 0.0163 |
| 2005088\_2010304 | KZ.ZRNK | 146.4 | -0.006 | -2.804 | -2.810 | 40.03 | 95.19 | 26.78 | 62.64 | 0.0145 |
| 2005183\_2008218 | IU.SDV | 152.5 | -0.002 | 0.094 | 0.092 | 6.86 | 39.75 | 7.89 | 41.99 | 0.0274 |
| 2005183\_2008218 | IU.TEIG | 146.1 | -0.025 | 0.120 | 0.095 | 10.94 | 43.05 | 11.69 | 43.20 | 0.0206 |
| 2006001\_2008134 | PR.CPD | 150.7 | 0.087 | 1.683 | 1.770 | 6.52 | 31.42 | 6.44 | 26.13 | 0.0303 |
| 2006001\_2008134 | PR.HUMP | 150.5 | -0.007 | 0.788 | 0.781 | 10.77 | 49.17 | 14.96 | 61.92 | 0.0195 |
| 2006075\_2012315 | IU.WCI | 147.1 | 0.002 | -4.430 | -4.428 | 7.16 | 49.60 | 7.20 | 46.75 | 0.0278 |
| 2006075\_2012315 | IU.WVT | 148.4 | 0.005 | -4.435 | -4.430 | 10.66 | 287.01 | 7.67 | 223.06 | 0.0238 |
| 2006075\_2012315 | NM.PLAL | 149.3 | 0.024 | -4.427 | -4.403 | 9.48 | 80.49 | 8.23 | 71.83 | 0.0239 |
| 2006075\_2012315 | NM.SIUC | 146.5 | 0.042 | -4.440 | -4.398 | 12.17 | 40.77 | 8.08 | 34.63 | 0.0229 |
| 2006075\_2012315 | NM.UALR | 147.6 | -0.013 | -4.395 | -4.408 | 7.02 | 30.59 | 4.19 | 20.05 | 0.0371 |
| 2006075\_2012315 | US.LRAL | 151.5 | -0.018 | -4.405 | -4.423 | 8.56 | 58.53 | 6.23 | 41.01 | 0.0279 |
| 2006075\_2012315 | US.MCWV | 147.3 | 0.000 | -4.420 | -4.420 | 14.74 | 51.50 | 15.00 | 58.82 | 0.0179 |
| 2006075\_2012315 | US.TZTN | 149.5 | -0.036 | -4.414 | -4.450 | 6.12 | 42.18 | 6.93 | 44.79 | 0.0301 |
| 2006109\_2017186 | CZ.KHC | 151.2 | -0.026 | -3.855 | -3.881 | 8.97 | 75.50 | 8.80 | 99.77 | 0.0237 |
| 2006137\_2010204 | US.JCT | 146.5 | -0.012 | 0.269 | 0.257 | 6.41 | 34.40 | 8.89 | 59.66 | 0.0273 |
| 2006198\_2014256 | CZ.KHC | 148.1 | 0.011 | 4.446 | 4.457 | 6.77 | 35.91 | 6.86 | 45.75 | 0.0290 |
| 2006198\_2014256 | MN.BNI | 152.7 | -0.013 | 4.460 | 4.447 | 10.90 | 13.57 | 9.94 | 17.60 | 0.0230 |
| 2006225\_2009240 | PR.HUMP | 149.6 | -0.002 | -2.546 | -2.548 | 6.60 | 34.10 | 5.80 | 23.43 | 0.0315 |
| 2006247\_2008006 | IU.WCI | 148.6 | 0.031 | -2.918 | -2.887 | 7.78 | 20.97 | 6.05 | 16.45 | 0.0298 |
| 2006259\_2010273 | PR.CPD | 150.1 | -0.011 | -6.984 | -6.995 | 5.10 | 33.47 | 6.08 | 34.33 | 0.0344 |
| 2006259\_2010273 | PR.HUMP | 150.0 | -0.020 | -6.987 | -7.007 | 7.62 | 51.00 | 8.20 | 53.19 | 0.0259 |
| 2006259\_2010273 | PR.OBIP | 150.5 | -0.002 | -6.352 | -6.354 | 8.47 | 41.56 | 7.75 | 39.39 | 0.0255 |
| 2006325\_2013039 | G.MPG | 152.7 | 0.007 | 1.302 | 1.309 | 20.63 | 89.07 | 11.15 | 47.51 | 0.0184 |
| 2006325\_2013039 | G.TAM | 146.1 | 0.017 | 1.298 | 1.315 | 10.49 | 45.97 | 10.93 | 44.67 | 0.0212 |
| 2007110\_2016270 | G.MPG | 147.6 | -0.055 | -0.466 | -0.521 | 7.34 | 36.70 | 19.16 | 136.29 | 0.0225 |
| 2007110\_2016270 | II.NNA | 151.8 | 0.023 | -0.425 | -0.402 | 7.26 | 43.39 | 5.30 | 43.79 | 0.0318 |
| 2007255\_2007335 | US.JCT | 147.3 | -0.010 | 0.223 | 0.213 | 6.99 | 78.54 | 7.06 | 80.74 | 0.0281 |
| 2007263\_2007358 | \_US.JCT | 147.3 | 0.000 | 0.551 | 0.551 | 13.52 | 101.59 | 12.79 | 91.49 | 0.0188 |
| 2007263\_2011062 | US.JCT | 147.3 | -0.005 | 1.763 | 1.758 | 13.37 | 107.70 | 9.18 | 78.59 | 0.0211 |
| 2007326\_2013010 | IU.LCO | 152.3 | -0.034 | 1.646 | 1.612 | 7.92 | 22.06 | 12.88 | 39.60 | 0.0230 |
| 2007326\_2013010 | IU.TEIG | 155.0 | -0.020 | 1.620 | 1.600 | 8.70 | 19.57 | 3.90 | 5.60 | 0.0406 |
| 2007358\_2011062 | \_US.JCT | 147.2 | -0.006 | 1.212 | 1.206 | 13.21 | 90.75 | 9.10 | 69.15 | 0.0212 |
| 2008005\_2012157 | PR.HUMP | 149.7 | -0.003 | 0.149 | 0.146 | 5.35 | 36.55 | 12.86 | 77.21 | 0.0284 |
| 2008006\_2013234 | US.JCT | 146.6 | 0.011 | -4.139 | -4.128 | 9.22 | 127.95 | 6.65 | 69.77 | 0.0264 |
| 2008006\_2013234 | US.MIAR | 146.7 | -0.003 | -4.121 | -4.124 | 29.25 | 121.68 | 30.92 | 123.24 | 0.0146 |
| 2008019\_2011238 | GT.PLCA | 149.6 | 0.010 | 0.107 | 0.117 | 7.80 | 58.74 | 9.59 | 62.34 | 0.0244 |
| 2008124\_2013044 | IM.TKL | 147.2 | -0.005 | -0.711 | -0.716 | 14.27 | 65.85 | 8.96 | 42.71 | 0.0211 |
| 2008124\_2013044 | IU.HKT | 148.7 | -0.042 | 12.049 | 12.007 | 6.63 | 47.90 | 4.80 | 42.67 | 0.0344 |
| 2008124\_2013044 | NM.PLAL | 147.0 | -0.021 | -0.663 | -0.684 | 14.27 | 156.55 | 8.44 | 61.88 | 0.0216 |
| 2008124\_2013044 | US.NATX | 147.7 | -0.014 | -0.706 | -0.720 | 10.33 | 37.47 | 7.66 | 37.56 | 0.0242 |
| 2008176\_2011170 | IM.TKL | 147.3 | 0.000 | -0.827 | -0.827 | 4.81 | 36.05 | 10.86 | 64.22 | 0.0311 |
| 2008176\_2011170 | US.LRAL | 149.3 | -0.023 | -0.803 | -0.826 | 3.96 | 25.15 | 12.39 | 73.73 | 0.0354 |
| 2008235\_2015218 | GT.LPAZ | 147.7 | 0.007 | -0.576 | -0.569 | 15.34 | 48.27 | 8.40 | 29.51 | 0.0216 |
| 2009192\_2012169 | CZ.KHC | 150.9 | -0.035 | 3.519 | 3.484 | 9.61 | 76.98 | 10.75 | 111.13 | 0.0218 |
| 2009192\_2012169 | OE.ARSA | 152.3 | 0.054 | 3.440 | 3.494 | 5.61 | 17.48 | 6.64 | 21.60 | 0.0323 |
| 2009192\_2012169 | OE.KBA | 152.9 | 0.007 | 3.464 | 3.471 | 4.94 | 19.23 | 5.45 | 35.31 | 0.0365 |
| 2009247\_2017312 | NM.PLAL | 149.1 | 0.001 | 1.944 | 1.945 | 6.85 | 58.21 | 7.34 | 56.25 | 0.0280 |
| 2009247\_2017312 | TA.WHTX | 147.0 | -0.027 | 1.957 | 1.930 | 16.74 | 66.05 | 19.41 | 70.08 | 0.0166 |
| 2009247\_2017312 | US.JCT | 146.6 | 0.001 | 1.927 | 1.928 | 35.04 | 501.21 | 25.33 | 322.59 | 0.0146 |
| 2009247\_2017312 | US.MIAR | 147.2 | -0.015 | 1.943 | 1.928 | 6.21 | 97.38 | 6.45 | 93.33 | 0.0306 |
| 2010062\_2011152 | II.AAK | 155.4 | -0.026 | 1.086 | 1.060 | 8.85 | 19.75 | 10.56 | 22.53 | 0.0233 |
| 2010062\_2011152 | KN.EKS2 | 154.8 | -0.023 | 1.095 | 1.072 | 9.72 | 14.70 | 14.44 | 21.86 | 0.0215 |
| 2010062\_2011152 | KN.UCH | 155.4 | -0.026 | 1.068 | 1.042 | 12.21 | 16.94 | 17.32 | 23.78 | 0.0193 |
| 2010062\_2011152 | KN.USP | 155.4 | -0.007 | 1.088 | 1.081 | 11.59 | 18.07 | 10.25 | 20.67 | 0.0218 |
| 2010064\_2010109 | II.AAK | 155.2 | 0.012 | 1.205 | 1.217 | 6.55 | 21.63 | 11.10 | 29.36 | 0.0261 |
| 2010064\_2010109 | II.BRVK | 150.7 | 0.014 | 1.218 | 1.232 | 4.88 | 54.67 | 5.11 | 52.67 | 0.0374 |
| 2010064\_2010109 | KN.AML | 154.6 | 0.032 | 1.191 | 1.223 | 5.64 | 10.39 | 7.86 | 11.38 | 0.0321 |
| 2010064\_2010109 | KN.EKS2 | 154.7 | -0.006 | 1.233 | 1.227 | 15.54 | 24.44 | 7.90 | 13.98 | 0.0232 |
| 2010064\_2010109 | KN.UCH | 155.2 | 0.016 | 1.222 | 1.238 | 11.83 | 24.22 | 11.44 | 21.44 | 0.0208 |
| 2010064\_2010109 | KN.USP | 155.2 | -0.025 | 1.271 | 1.246 | 12.41 | 21.24 | 5.33 | 9.49 | 0.0302 |
| 2010064\_2010109 | KZ.BVAR | 150.7 | -0.027 | 1.278 | 1.251 | 7.88 | 64.27 | 6.11 | 54.02 | 0.0288 |
| 2010070\_2011206 | KN.AAK | 155.3 | 0.030 | 0.786 | 0.816 | 9.74 | 25.72 | 7.49 | 21.17 | 0.0252 |
| 2010070\_2011206 | KN.AML | 154.7 | 0.036 | 0.776 | 0.812 | 8.37 | 15.02 | 6.38 | 11.16 | 0.0294 |
| 2010070\_2011206 | KN.EKS2 | 154.7 | 0.022 | 0.786 | 0.808 | 12.36 | 19.86 | 13.96 | 20.00 | 0.0199 |
| 2010070\_2011206 | KN.UCH | 155.3 | 0.010 | 0.798 | 0.808 | 13.36 | 26.53 | 16.81 | 29.15 | 0.0183 |
| 2010070\_2011206 | KN.USP | 155.2 | 0.011 | 0.807 | 0.818 | 4.95 | 8.98 | 7.28 | 12.47 | 0.0351 |
| 2010070\_2011206 | KR.ARLS | 155.1 | 0.005 | 1.086 | 1.091 | 6.63 | 20.39 | 7.74 | 18.83 | 0.0286 |
| 2010078\_2015198 | II.KURK | 154.8 | -0.011 | -2.768 | -2.779 | 15.86 | 39.55 | 9.78 | 33.59 | 0.0202 |
| 2010078\_2015198 | KN.EKS2 | 153.7 | -0.038 | -2.751 | -2.789 | 7.26 | 22.05 | 7.29 | 24.77 | 0.0279 |
| 2010078\_2015198 | KN.USP | 154.2 | 0.006 | -2.785 | -2.779 | 7.74 | 27.12 | 4.78 | 18.25 | 0.0336 |
| 2010078\_2015198 | KZ.KKAR | 151.3 | 0.015 | -2.851 | -2.836 | 6.45 | 46.78 | 4.56 | 33.92 | 0.0357 |
| 2010273\_2015203 | PR.HUMP | 150.0 | 0.020 | 7.179 | 7.199 | 8.21 | 53.27 | 8.39 | 61.79 | 0.0249 |
| 2011326\_2014043 | KN.EKS2 | 152.2 | 0.010 | -0.875 | -0.865 | 7.52 | 89.37 | 4.72 | 90.47 | 0.0335 |
| 2011326\_2014043 | KN.UCH | 152.7 | 0.022 | -0.875 | -0.853 | 12.11 | 139.78 | 5.90 | 75.76 | 0.0268 |
| 2011326\_2014043 | KR.BTK | 150.0 | -0.045 | -0.804 | -0.849 | 4.97 | 52.02 | 6.66 | 59.66 | 0.0337 |
| 2011326\_2014043 | KR.NRN | 153.9 | -0.007 | -0.836 | -0.843 | 6.87 | 35.53 | 6.72 | 47.98 | 0.0290 |
| 2011326\_2014043 | KZ.BRVK | 147.6 | -0.016 | -0.875 | -0.891 | 4.57 | 55.09 | 5.77 | 57.67 | 0.0369 |
| 2011326\_2014043 | MY.KSM | 146.8 | 0.001 | -0.858 | -0.857 | 7.79 | 16.73 | 6.47 | 12.26 | 0.0295 |
| 2012157\_2017017 | PR.HUMP | 149.7 | 0.001 | 2.025 | 2.026 | 12.86 | 77.17 | 7.20 | 41.45 | 0.0238 |
| 2012157\_2017017 | PR.OBIP | 150.2 | -0.035 | 2.063 | 2.028 | 13.30 | 71.80 | 6.83 | 29.43 | 0.0244 |
| 2013170\_2017186 | CZ.KHC | 151.2 | 0.014 | 0.405 | 0.419 | 8.40 | 68.71 | 8.80 | 99.74 | 0.0243 |
|  |  |  |  |  |  |  |  |  |  |  |
| 1994317\_2007110 | GT.LPAZ | 159.4 | 0.018 | 0.751 | 0.769 | 21.47 | 45.00 | 14.65 | 27.41 | 0.0172 |
| 1994317\_2007110 | IU.SDV | 162.7 | 0.033 | 0.713 | 0.746 | 30.14 | 14.34 | 20.59 | 9.49 | 0.0189 |
| 1995180\_2011109 | IU.CHTO | 163.1 | -0.013 | 2.070 | 2.057 | 7.33 | 5.00 | 10.33 | 7.56 | 0.0325 |
| 1997128\_2011122 | PS.PSI | 163.9 | 0.015 | 1.599 | 1.614 | 76.24 | 29.08 | 28.67 | 10.93 | 0.0166 |
| 1998289\_2010263 | IU.MAKZ | 156.5 | 0.019 | -1.310 | -1.291 | 6.67 | 15.77 | 15.06 | 32.14 | 0.0250 |
| 2000338\_2013111 | GE.SNAA | 159.8 | -0.017 | -1.163 | -1.180 | 45.80 | 74.29 | 15.08 | 31.39 | 0.0162 |
| 2001090\_2010357 | IU.OTAV | 173.1 | 0.030 | -0.344 | -0.314 | 14.35 | 23.92 | 12.34 | 17.09 | 0.0198 |
| 2002116\_2009005 | G.TAM | 174.9 | -0.002 | -3.143 | -3.145 | 6.76 | 5.99 | 12.11 | 8.87 | 0.0306 |
| 2003142\_2013019 | GT.LPAZ | 165.9 | 0.019 | 1.353 | 1.372 | 32.45 | 18.29 | 46.95 | 29.41 | 0.0152 |
| 2004361\_2005029 | IU.OTAV | 170.8 | 0.020 | -0.029 | -0.009 | 12.90 | 15.24 | 9.55 | 11.91 | 0.0229 |
| 2004361\_2005029 | IU.SDV | 159.3 | 0.024 | -0.063 | -0.039 | 9.60 | 14.40 | 7.32 | 10.89 | 0.0270 |
| 2004361\_2005029 | XT.JMPC | 156.2 | -0.004 | -0.038 | -0.042 | 20.55 | 33.48 | 12.13 | 19.02 | 0.0186 |
| 2004361\_2005029 | XT.MAPC | 155.9 | -0.018 | -0.025 | -0.043 | 22.69 | 28.98 | 13.30 | 16.51 | 0.0182 |
| 2004361\_2005044 | IU.OTAV | 171.4 | 0.062 | -0.295 | -0.233 | 6.08 | 10.89 | 23.92 | 38.56 | 0.0262 |
| 2004361\_2005044 | IU.SDV | 159.9 | -0.106 | -0.123 | -0.229 | 4.94 | 8.88 | 9.87 | 14.21 | 0.0331 |
| 2004361\_2005044 | XT.STPC | 157.0 | -0.012 | -0.239 | -0.251 | 8.41 | 10.17 | 8.36 | 8.91 | 0.0280 |
| 2004361\_2005044 | YO.B3 | 162.9 | -0.042 | -0.186 | -0.228 | 10.35 | 23.05 | 9.38 | 18.33 | 0.0230 |
| 2004361\_2005044 | YO.B4 | 163.2 | -0.009 | -0.201 | -0.210 | 7.86 | 15.62 | 4.58 | 8.24 | 0.0360 |
| 2004361\_2005044 | YO.N13 | 161.6 | -0.004 | -0.234 | -0.238 | 5.47 | 20.36 | 5.95 | 18.27 | 0.0339 |
| 2004362\_2006133 | IU.SAML | 157.6 | 0.018 | -0.412 | -0.394 | 16.02 | 46.50 | 20.90 | 73.07 | 0.0166 |
| 2004362\_2006133 | IU.SDV | 159.4 | -0.003 | -0.405 | -0.408 | 37.69 | 49.64 | 30.50 | 42.62 | 0.0146 |
| 2004365\_2005029 | IU.OTAV | 170.8 | 0.006 | -0.047 | -0.041 | 9.73 | 13.38 | 9.60 | 11.97 | 0.0245 |
| 2004365\_2005029 | XT.MAPC | 155.8 | 0.013 | -0.056 | -0.043 | 17.41 | 21.76 | 13.30 | 16.34 | 0.0190 |
| 2004366\_2005044 | IU.OTAV | 171.5 | 0.031 | 0.025 | 0.056 | 15.62 | 25.92 | 23.98 | 38.65 | 0.0168 |
| 2004366\_2005044 | IU.SAML | 157.9 | -0.012 | 0.061 | 0.049 | 9.27 | 21.52 | 8.76 | 20.68 | 0.0242 |
| 2004366\_2005044 | IU.SDV | 159.9 | -0.061 | 0.102 | 0.041 | 10.11 | 16.31 | 9.86 | 14.20 | 0.0235 |
| 2004366\_2005129 | IU.OTAV | 171.5 | 0.059 | 6.101 | 6.160 | 13.40 | 24.63 | 8.68 | 16.14 | 0.0225 |
| 2004366\_2005204 | IU.OTAV | 171.5 | 0.012 | -0.053 | -0.041 | 15.62 | 25.93 | 11.99 | 21.24 | 0.0193 |
| 2004366\_2005204 | IU.SAML | 157.9 | -0.007 | -0.049 | -0.056 | 9.27 | 21.52 | 8.87 | 24.09 | 0.0240 |
| 2004366\_2005204 | IU.SDV | 159.9 | 0.032 | 0.217 | 0.249 | 10.12 | 16.31 | 13.58 | 19.32 | 0.0214 |
| 2004366\_2010272 | GT.LPAZ | 159.9 | 0.042 | -5.862 | -5.820 | 20.50 | 14.82 | 9.55 | 7.96 | 0.0233 |
| 2004366\_2010273 | IU.OTAV | 171.5 | 0.005 | -0.721 | -0.716 | 15.62 | 25.92 | 13.48 | 20.37 | 0.0188 |
| 2005005\_2012157 | IU.OTAV | 171.1 | -0.014 | -2.956 | -2.970 | 11.50 | 15.92 | 13.49 | 22.38 | 0.0206 |
| 2005005\_2012157 | IU.SDV | 159.5 | 0.008 | -2.978 | -2.970 | 8.65 | 12.11 | 10.70 | 15.47 | 0.0245 |
| 2005044\_2005204 | IU.OTAV | 171.4 | -0.026 | -0.072 | -0.098 | 23.98 | 38.66 | 11.99 | 21.24 | 0.0182 |
| 2005044\_2005204 | IU.SAML | 157.8 | 0.003 | -0.107 | -0.104 | 8.75 | 20.65 | 8.88 | 24.12 | 0.0245 |
| 2005044\_2005204 | IU.SDV | 159.9 | 0.096 | 0.115 | 0.211 | 9.86 | 14.20 | 13.56 | 19.29 | 0.0218 |
| 2005044\_2005204 | YO.B3 | 162.8 | 0.009 | -0.095 | -0.086 | 8.78 | 17.15 | 8.28 | 13.25 | 0.0258 |
| 2005044\_2005204 | YO.B4 | 163.2 | -0.004 | -0.086 | -0.090 | 4.59 | 8.25 | 6.93 | 11.90 | 0.0372 |
| 2005044\_2006259 | IU.OTAV | 171.4 | 0.009 | -0.469 | -0.460 | 23.92 | 38.56 | 15.95 | 24.67 | 0.0168 |
| 2005044\_2006259 | IU.SAML | 157.8 | -0.038 | -0.419 | -0.457 | 8.76 | 20.68 | 6.51 | 14.30 | 0.0281 |
| 2005044\_2006259 | IU.SDV | 159.9 | 0.037 | -0.457 | -0.420 | 9.86 | 14.20 | 9.36 | 13.33 | 0.0243 |
| 2005044\_2010273 | IU.OTAV | 171.4 | -0.029 | -0.743 | -0.772 | 23.98 | 38.65 | 13.51 | 20.41 | 0.0176 |
| 2005044\_2015203 | IU.OTAV | 171.4 | -0.016 | 2.558 | 2.542 | 23.98 | 38.66 | 7.31 | 14.91 | 0.0230 |
| 2005071\_2006225 | IU.OTAV | 171.1 | -0.005 | 3.277 | 3.272 | 10.01 | 18.01 | 7.68 | 14.99 | 0.0254 |
| 2005088\_2010304 | KZ.MKAR | 156.7 | -0.042 | -2.653 | -2.695 | 20.81 | 43.94 | 6.92 | 17.68 | 0.0236 |
| 2005129\_2006343 | IU.OTAV | 171.5 | -0.027 | -0.222 | -0.249 | 8.56 | 15.91 | 5.65 | 9.53 | 0.0312 |
| 2005129\_2012232 | IU.OTAV | 171.5 | 0.001 | -1.531 | -1.530 | 8.56 | 15.90 | 6.11 | 10.73 | 0.0298 |
| 2005129\_2015189 | IU.OTAV | 171.5 | -0.025 | -1.615 | -1.640 | 8.56 | 15.91 | 7.30 | 8.77 | 0.0283 |
| 2005204\_2006259 | IU.OTAV | 171.4 | 0.034 | -0.395 | -0.361 | 11.99 | 21.24 | 15.94 | 24.65 | 0.0193 |
| 2005204\_2006259 | IU.SAML | 157.8 | -0.041 | -0.312 | -0.353 | 8.88 | 24.13 | 6.56 | 14.39 | 0.0278 |
| 2005204\_2006259 | IU.SDV | 159.9 | -0.042 | -0.591 | -0.633 | 13.56 | 19.30 | 9.35 | 13.31 | 0.0223 |
| 2005204\_2010273 | IU.OTAV | 171.4 | -0.009 | -0.664 | -0.673 | 11.99 | 21.24 | 13.53 | 20.45 | 0.0201 |
| 2005204\_2015203 | IU.OTAV | 171.4 | 0.004 | 2.636 | 2.640 | 12.00 | 21.25 | 7.31 | 14.90 | 0.0249 |
| 2006001\_2008134 | IU.OTAV | 171.9 | -0.019 | 1.824 | 1.805 | 39.98 | 24.42 | 25.44 | 14.11 | 0.0162 |
| 2006259\_2010273 | IU.OTAV | 171.4 | -0.042 | -0.270 | -0.312 | 15.94 | 24.65 | 13.63 | 20.60 | 0.0187 |
| 2006343\_2012232 | IU.OTAV | 171.4 | 0.032 | -1.315 | -1.283 | 5.65 | 9.53 | 6.08 | 10.68 | 0.0349 |
| 2006343\_2015189 | IU.OTAV | 171.4 | 0.003 | -1.390 | -1.387 | 5.66 | 9.54 | 7.30 | 8.77 | 0.0335 |
| 2007110\_2011125 | GT.LPAZ | 159.5 | -0.022 | -6.272 | -6.294 | 14.63 | 27.36 | 9.65 | 19.36 | 0.0210 |
| 2007326\_2013010 | IU.OTAV | 171.8 | 0.004 | 1.629 | 1.633 | 48.61 | 52.90 | 28.05 | 30.15 | 0.0147 |
| 2008005\_2012157 | IU.OTAV | 171.1 | -0.008 | 0.132 | 0.124 | 17.57 | 24.48 | 14.12 | 23.43 | 0.0182 |
| 2010062\_2011152 | II.KURK | 156.5 | 0.001 | 1.098 | 1.099 | 10.56 | 24.37 | 8.64 | 15.78 | 0.0237 |
| 2010062\_2011152 | IM.MK31 | 160.1 | -0.029 | 1.074 | 1.045 | 16.90 | 32.89 | 15.05 | 30.01 | 0.0177 |
| 2010062\_2011152 | KN.KBK | 155.7 | 0.005 | 1.037 | 1.042 | 5.36 | 16.97 | 7.58 | 25.20 | 0.0317 |
| 2010062\_2011152 | KN.KZA | 155.9 | -0.052 | 1.083 | 1.031 | 5.74 | 20.27 | 11.87 | 42.43 | 0.0277 |
| 2010062\_2011152 | KN.TKM2 | 156.2 | -0.031 | 1.082 | 1.051 | 17.58 | 30.68 | 17.52 | 36.55 | 0.0170 |
| 2010062\_2011152 | KN.ULHL | 156.7 | 0.043 | 1.009 | 1.052 | 8.37 | 19.97 | 7.43 | 20.03 | 0.0266 |
| 2010062\_2011152 | KR.NRN | 156.5 | -0.028 | 0.807 | 0.779 | 6.46 | 28.45 | 10.94 | 50.91 | 0.0261 |
| 2010064\_2010109 | II.KURK | 156.3 | -0.010 | 1.250 | 1.240 | 6.05 | 11.87 | 6.73 | 16.60 | 0.0318 |
| 2010064\_2010109 | IM.MK31 | 160.0 | -0.004 | 1.230 | 1.226 | 13.15 | 17.23 | 16.76 | 25.63 | 0.0189 |
| 2010064\_2010109 | KN.KBK | 155.5 | 0.005 | 1.221 | 1.226 | 7.12 | 21.45 | 5.95 | 24.85 | 0.0305 |
| 2010064\_2010109 | KN.KZA | 155.8 | -0.002 | 1.207 | 1.205 | 6.82 | 17.82 | 5.44 | 20.00 | 0.0325 |
| 2010064\_2010109 | KN.TKM2 | 156.0 | 0.018 | 1.207 | 1.225 | 16.62 | 36.25 | 13.43 | 29.35 | 0.0182 |
| 2010064\_2010109 | KN.ULHL | 156.5 | -0.010 | 1.250 | 1.240 | 5.76 | 17.29 | 5.20 | 12.33 | 0.0356 |
| 2010064\_2010109 | KR.NRN | 156.3 | 0.028 | 1.257 | 1.285 | 9.59 | 42.72 | 6.19 | 37.87 | 0.0273 |
| 2010070\_2011206 | IC.LSA | 165.0 | 0.024 | 0.816 | 0.840 | 10.22 | 42.91 | 4.94 | 13.99 | 0.0314 |
| 2010070\_2011206 | IM.MK31 | 160.1 | 0.014 | 0.825 | 0.839 | 18.56 | 58.89 | 16.37 | 64.00 | 0.0168 |
| 2010070\_2011206 | KZ.KUR03 | 156.4 | 0.012 | 0.870 | 0.882 | 8.36 | 23.29 | 4.07 | 11.85 | 0.0371 |
| 2010078\_2015198 | IM.MK31 | 158.7 | -0.010 | -2.856 | -2.866 | 23.65 | 61.06 | 17.68 | 48.88 | 0.0161 |
| 2010273\_2015203 | IU.OTAV | 171.4 | 0.017 | 3.296 | 3.313 | 13.51 | 20.41 | 7.63 | 14.90 | 0.0240 |
| 2012157\_2017017 | IU.OTAV | 171.1 | 0.007 | 1.996 | 2.003 | 14.11 | 23.42 | 13.28 | 20.34 | 0.0193 |
| 2012157\_2017017 | IU.SDV | 159.5 | -0.014 | 2.019 | 2.005 | 10.74 | 15.52 | 8.58 | 11.69 | 0.0246 |