Interactive comment on “A synthesis of carbon dioxide emissions from fossil-fuel combustion” by R. J. Andres et al.

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Received and published: 20 February 2012

This is a valuable (indeed vital) contribution to the RECCAP exercise and I recommend publication. Section 1 introduces the issues very well.

I would endorse a number of the points made in Glen Peters’ review (Biogeosciences Discuss 9, C120–C129), in particular

- ‘fossil fuel combustion’ as a shorthand for a wider class of sources – others have used the term ‘industrial’

Minor points.

1. p 1307. Typeset +/− as ±
2. p 1307: citation of Enting and Rayner refers to the Enting/Ryaner/Ciais paper listed in the references (now published as discussion), but probably better to reference (Enting et al, 2012 and references therein)
3. p 1312. it is puzzling to have the variability described as a second derivative. Is ‘second moment’ what is really meant?
4. p 1321/Fig 5. It would seem that figure 5 would be much clearer if the vertical (Normalized FFCO2 emissions) axis used a logarithmic scale.
5. p 1321 suggest ‘FFCO2 emissions are held constant’ becomes ‘FFCO2 emissions are commonly held constant’ (e.g. Enting et al, Tellus 47 B, 35–52 (1995) is an exception to the common practice).
6. p 1333. suggest: ‘that biospheric fluxes in Asia would shift ..’ becomes ‘that estimates biospheric fluxes in Asia would shift ..’ — it is the estimates that (might) shift, not the fluxes.
7. p 1354 inconsistent capitalisation of van Aardenne in Olivier et al references.
8. p 355 Keeling, not Keelinf as third author of Rafelski paper.
9. P1362: fig 2: missing comma between IEA and EIA.
10. throughtout: inconsistency in accents for Le Quéré.