



Supplement of

Varying relationships between fire radiative power and fire size at a global scale

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| Product x cut-off | Number of patches | Number of patches with matching active fire pixels |
|-------------------|-------------------|--|
| MCD64A1 x 3 | 6,350,768 | 5,234,620 |
| MCD64A1 x 5 | 5,552,765 | 4,550,807 |
| MCD64A1 x 9 | 4,876,306 | 3,955,909 |
| MCD64A1 x 14 | 4,450,084 | 3,583,996 |
| FireCCI41 x 3 | 5,264,372 | 4,405,574 |
| FireCCI41 x 5 | 3,941,415 | 3,285,806 |
| FireCCI41 x 9 | 3,058,375 | 2,521,351 |
| FireCCI41 x 14 | 2,246,239 | 1,826,388 |

 Table S1 : Total number of fire patches and number of patches with associated active fire pixels.



Figure S1: GFED sub-regions (as defined in Giglio et al. 2013)



Figure S2: Spatial extents of the shrublands/grasslands (orange), savannas (light green) and forest (dark green) vegetation types.



Figure S3: Same as Figure 1 (MCD64A1), but with a cut-off of 3 days.



Figure S4: Same as Figure 1, but with FireCCI41 (2005-2011) and a cut-off of 14 days.



Figure S5: Same as Figure 4 (MCD64A1), with a cut-off of 3 day.



-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 Δ month between highest median FRP and highest median fire size

Figure S6: Same as Figure 4 with FireCCI41, with a cut-off of 14 days.



Figure S7 : Percentage of patches with matching FRP information from MCd14ML.