



Supplement of

Assessing recovery time of ecosystems in China: insights into flash drought impacts on gross primary productivity

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Figure. S1. Definition of land cover classes based on IGBP land classes. ENF, evergreen needleleaf forests;
EBF, evergreen broadleaf forests; DF, deciduous forests; MF, mixed forests; WS, closed shrubland, open

shrubland and woody savannas; SAV, savannas (temperate); GRS, grasslands; CRP, croplands; CRO,

22 croplands and natural vegetation mosaic; Barren, barren sparsely vegetation.





Figure. S3. The mean values of soil moisture (SM) and GPP anomaly between -4 pentads and 28 +9 pentads after flash drought onset.



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Figure S4. Recovery time to original state at 80%(a), 90%(b), 100%(c), and 110%(d) recovery thresholds. Box plots of recovery time under different recovery thresholds (e). The box plots display the maximum, upper quartile, median, lower quartile, and minimum values of the recovery time distribution.



37 Figure. S5. The patten of aridity index (a) and pentad net radiation(b).