

Figure S1. Spatial distributions of land types which show relatively low corrections between FYDI and MCI; Land type 2: Evergreen Needleleaf Forest; Land type 5: Deciduous Broadleaf Forest and Land type 13: Bare Soil

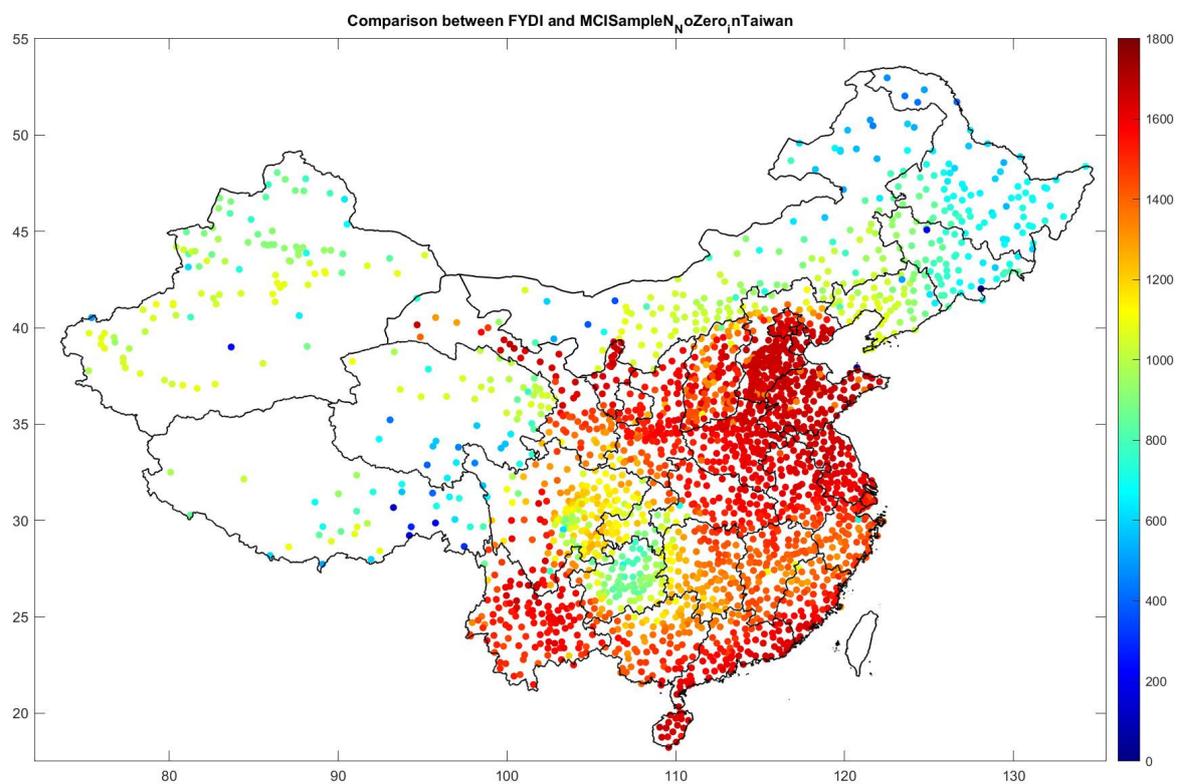


Figure S2. Observation pairs between FYDI and MCI data sets over the period of 2016 to 2020

**Table S1.** Coefficients list of each parameter in the formula of MCI

Weight coefficients	Parameter	Northern and western regions	Southern region
	a	0.3	0.5
b	0.5	0.6	
c	0.3	0.2	
d	0.2	0.1	
K <sub>a</sub>	Peak season for crop growth	Early or mature stages of crop growth	Without crop or vegetation growth or perennially arid regions
	Mar. — Sep.	Oct.— Next Feb.	Other
	1.0 — 1.2	0.4 — 1.0	0