

# Spatio-Temporal Assessment of Global Gridded Evapotranspiration Datasets across Iran

Davood Moshir Panahi <sup>1,†</sup>, Sadegh Sadeghi Tabas <sup>1,†</sup>, Zahra Kalantari <sup>2,3,4,\*</sup>, Carla Sofia Santos Ferreira <sup>2,3</sup> and Bagher Zahabiyoun <sup>1</sup>

<sup>1</sup> School of Civil Engineering, Iran University of Science and Technology, Tehran 16846-13114, Iran; [davood\\_moshirpanahi@civileng.iust.ac.ir](mailto:davood_moshirpanahi@civileng.iust.ac.ir) (D.M.P.); [s\\_sadeghitabas@civileng.iust.ac.ir](mailto:s_sadeghitabas@civileng.iust.ac.ir) (S.S.T.); [Bagher@iust.ac.ir](mailto:Bagher@iust.ac.ir) (B.Z.)

<sup>2</sup> Department of Physical Geography and Bolin Centre for Climate Research, Stockholm University, SE-10691 Stockholm, Sweden; [Carla.ferreira@natgeo.su.se](mailto:Carla.ferreira@natgeo.su.se) (C.S.S.F.)

<sup>3</sup> Navarino Environmental Observatory, 24001 Messina, Greece

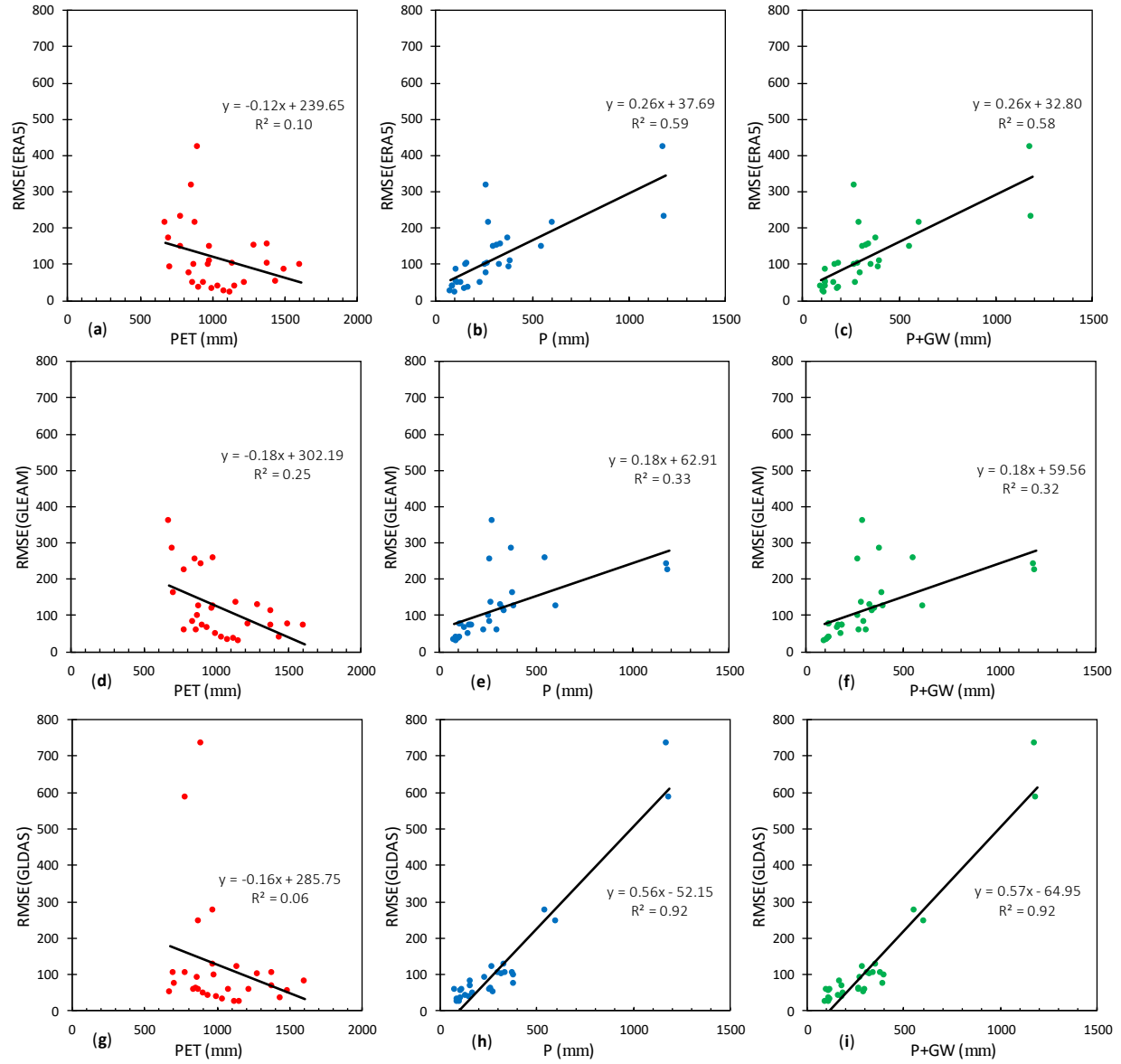
<sup>4</sup> Department of Sustainable Development, Environmental Science and Engineering, KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden

\* Correspondence: [Zahra.kalantari@natgeo.su.se](mailto:Zahra.kalantari@natgeo.su.se) (Z.K)

† The authors D. Moshir Panahi and S. Sadeghi Tabas have equally contributed to this study.

**Table S1.** Long-term annual average values of hydro-climate variables in the main basins in Iran over the study period. PET = potential evapotranspiration, P = precipitation, over Iran's basin (1986–2016).

| Basin Code | PET (mm/yr) | P (mm/yr) |
|------------|-------------|-----------|
| 11         | 676         | 280       |
| 12         | 787         | 1187      |
| 13         | 715         | 385       |
| 14         | 899         | 1178      |
| 15         | 881         | 606       |
| 16         | 861         | 267       |
| 17         | 789         | 305       |
| 21         | 1040        | 415       |
| 22         | 988         | 388       |
| 23         | 982         | 549       |
| 24         | 1384        | 340       |
| 25         | 1289        | 323       |
| 26         | 1146        | 273       |
| 27         | 1387        | 164       |
| 28         | 1608        | 160       |
| 29         | 1495        | 112       |
| 30         | 704         | 377       |
| 41         | 846         | 268       |
| 42         | 879         | 259       |
| 43         | 976         | 335       |
| 44         | 945         | 136       |
| 45         | 1444        | 109       |
| 46         | 1125        | 103       |
| 47         | 1001        | 153       |
| 48         | 1083        | 78        |
| 49         | 1042        | 92        |
| 51         | 909         | 171       |
| 52         | 1162        | 90        |
| 53         | 1225        | 116       |
| 60         | 872         | 235       |



**Figure S1:** Co-variation of RMSE of (a–c) ETERA5, (d–f) ETGLEAM, and (g–i) ETGLDAS with (a,d,g) potential evapotranspiration (PET), (b,e,h) precipitation (P), and (c,f,i) P + groundwater (GW).