Supporting Information for

Use of GRACE Satellite Gravimetry for Assessing Large-Scale Hydrologic Extremes

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A. Comparison of TRMM, GLDAS precipitation forcing V1 & V2
B. Full intrinsic mode functions identified for Mississippi, Nile, Zambezi, and Murry-Darling basins.

A. Comparison of GLDAS V1 and V21 precipitation forcing data with TRMM

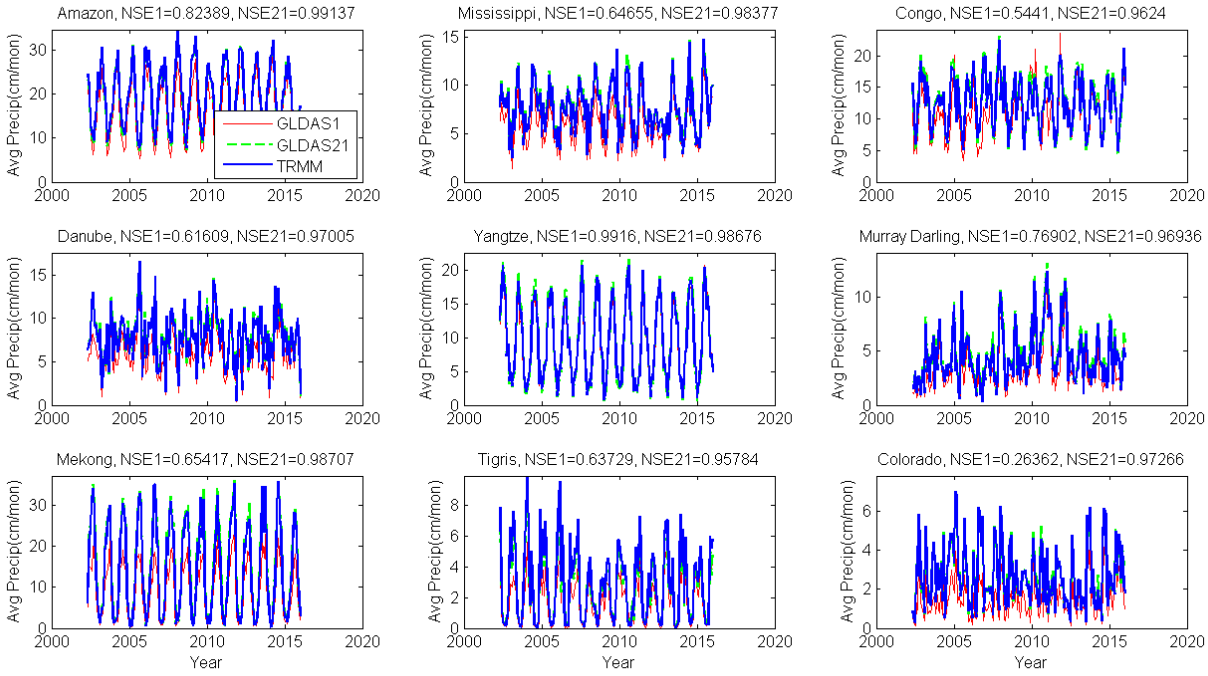
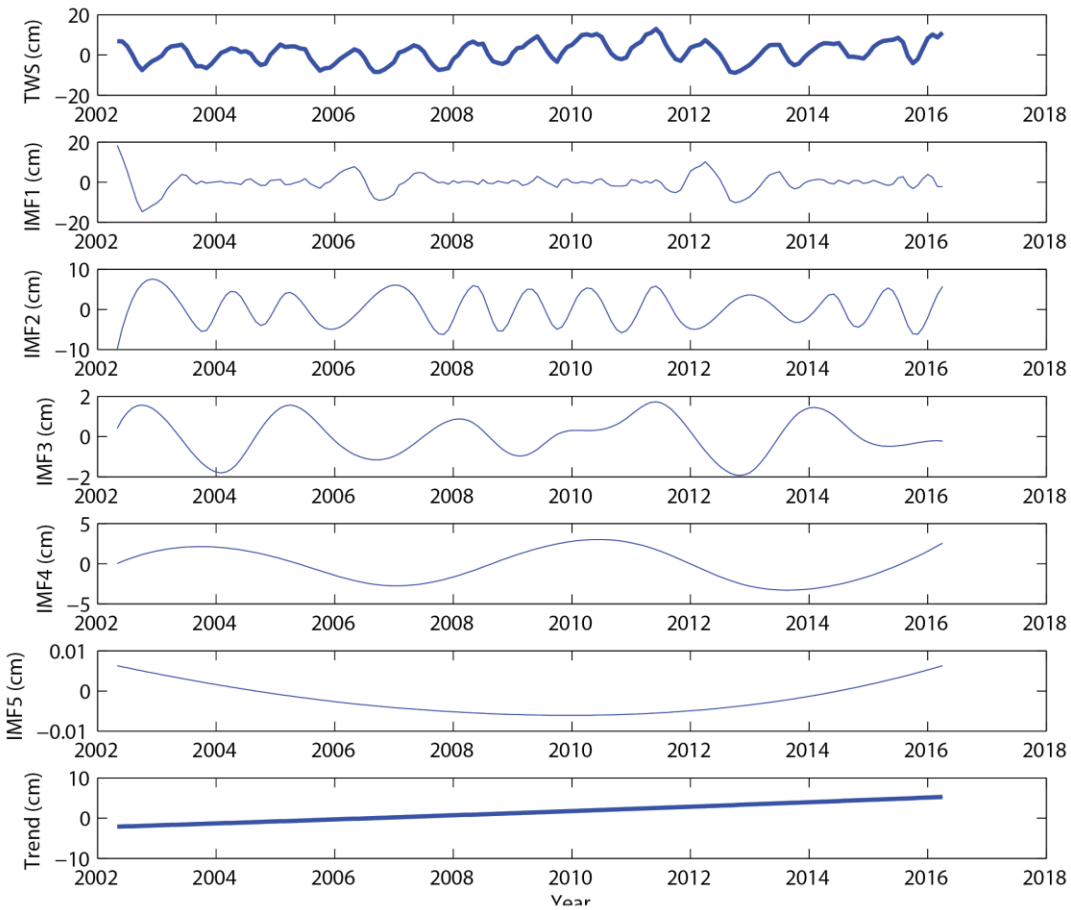


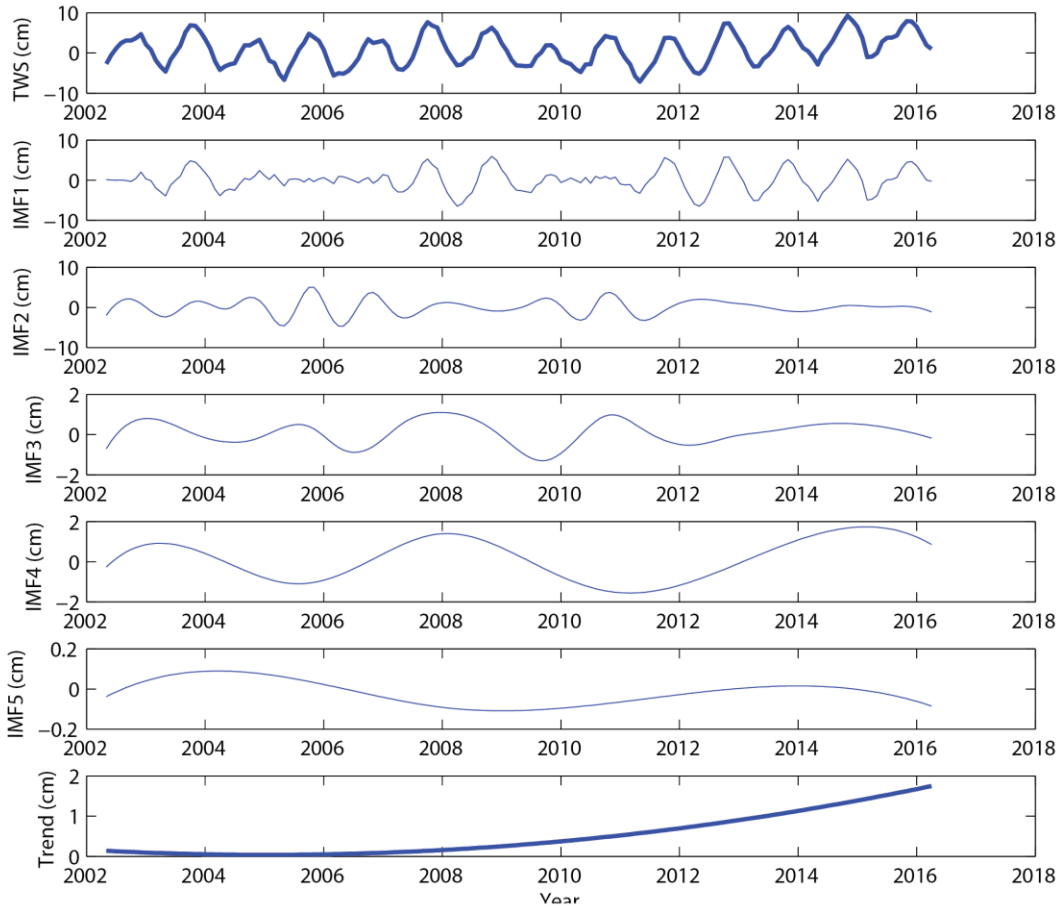
Figure S1. Benchmarking of GLDAS V1 and GLDAS V2.1 precipitation forcing against TRMM (3B43V7), where NSE1 is Nash-Sutcliff efficiency calculated between GLDAS V1 and TRMM, and NSE21 is between GLDAS V2.1 and TRMM. GLDAS V2.1 data are very similar to TRMM for all river basins (NSE21> 0.95), while GLDAS V1 data show large discrepancies.

B. EMD results for Mississippi, Nile, Zambezi, and Murray-Darling Basins

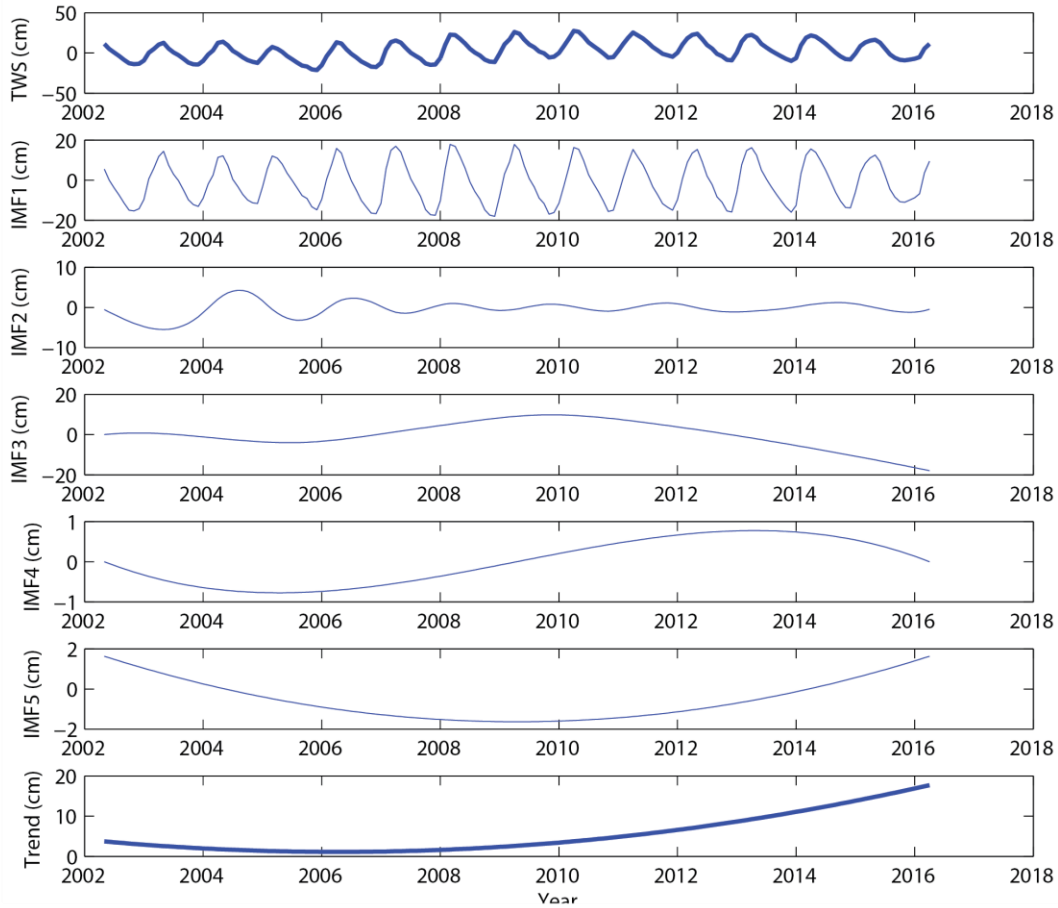
B.1 Mississippi



B.2 Nile



B.3 Zambezi



B.4 Murray-Darling Basins