

| Data set | Period resolution | Spatial resolution | Temporal | References |
|---------------------------|-------------------|--------------------|------------|---------------------------|
| Precipitation | | | | |
| CSU | 1998–2010 | 0.25° | 3 h | Bytheway et al. (2013) |
| PGF | 1948–2010 | 0.25° | 3 h | Sheffield et al. (2006) |
| CHIRPS | 1981–present | 0.5° | monthly | Funk et al. (2014) |
| GPCC(v6) | 1901–2010 | 0.5° | monthly | Schneider et al. (2014) |
| Evapotranspiration | | | | |
| VIC | 1948–2010 | 0.25° | 3 h | Sheffield and Wood (2007) |
| CLM | 1948–2010 | 1° | 3 h | – |
| NOAH | 1948–2010 | 1° | 3 h | – |
| ERA-Interim | 1979–present | T255 | – | Simmons et al. (2006) |
| MERRA | 1979–present | 2/3° × 1/2° grids | – | Rienecker et al. (2011) |
| GLEAM(v2A) | 1981–2011 | 0.25° | daily | Miraless et al. (2011) |
| SRB-PGF | 1984–2010 | 0.5° | daily | Vinukollu et al. (2011) |
| PT | | | | |
| SRB-CFSR | 1984–2007 | 0.5° | daily | Vinukollu et al. (2011) |
| PT | | | | |
| Runoff | | | | |
| VIC | 1948–2010 | 0.25° | 3 h | Sheffield and Wood (2007) |
| CLM | 1948–2010 | 1° | 3 h | – |
| NOAH | 1948–2010 | 1° | 3 h | – |
| Total water storage (TWS) | | | | |
| VIC | 1948–2010 | 0.25° | 3 h | Sheffield and Wood (2007) |
| CLM | 1948–2010 | 1° | 3 h | – |
| NOAH | 1948–2010 | 1° | 3 h | – |
| GRACE | 2002–present | 1° | monthly | Landerer et al. (2012) |