

***In situ*, surface data sets for the AAM region**

Variable	Source	Grid spacing	Time span
Precipitation	NCAR	Daily and monthly; Australian station data	1939-1982
		Daily and monthly; Australian station data	1840-1990
		Monthly; Central Pacific Island stations	1900-1980
		Daily; China station data, 180 stations	1951-1991
		Monthly; China station data, 160 stations	1951-1990
		Daily and monthly; India stations (1632 in 1901, 2536 in 1970, 1473 stations 67 years or more)	1901-1970
		Weekly; 34 India meteorological subdivisions and one island	1979-1985
		Daily and monthly; Indonesia station data	1951-1985
		Daily and monthly; Malaysia station data	1951-1985
	Daily and monthly; Thailand station data	1951-1985	
	World Monthly Surface Station Climatology	Monthly; global; 4700 stations	1738-present
	Climatic Research Unit (Hulme)	Monthly; global, land-only; 2.5° x 3.75°, 5° x 5°	1900-1998
Sea level/surface pressure	Trenberth	Monthly; 15°N-85°N; 5° x 5°	1899-present
	USSR	Daily; 15°N-90°N; 10° x 5°	1880-

	US Navy	Daily and monthly; global; 5° x 5°	1979 1871-1994
	Hadley Center Global Mean Sea Level Pressure Analysis	Monthly; global; 5° x 5°	1871-1994
	World Monthly Surface Station Climatology	Monthly; global; 4700 stations	1738-present
Surface temperature	World Monthly Surface Station Climatology	Monthly; global; 4700 stations	1738-present
	Climatic Research Unit	Monthly; global; 5° x 5°	1856-1998
Sea surface temperature	Climatic Research Unit	Monthly; global; 5° x 5°	1950-1995
Surface heat, freshwater, and momentum fluxes	Ship observations from COADS	Monthly; global; 1° x 1°	1945-1998
River discharge rate (streamflow)	UNESCO	Monthly; global, 3376 locations except the former Soviet Union	1807-2000

***In situ*, upper-air data sets for the AAM region**

Country	Number of stations	Longest record (years)
Afghanistan	3	32
Australia	65	89
Bangladesh	16	43
Brunei	1	17
Burma	12	48
Cambodia	1	30
China	217	55
Diego Garcia	1	38
Fiji	2	51
French Polynesia	14	35
Guam	2	53
Hong Kong	2	46
India	81	57
Indonesia	76	44
Japan	40	54
Johnston Atoll	1	50
Madagascar	19	29
Malaysia	13	35
Maldives	2	40
Marshall Islands	7	51
Mauritius	4	35
Federated States of Micronesia	1	25
Midway Island	1	50
New Caledonia	3	41
New Zealand	21	49
Northern Mariana Islands	2	16
Palau	7	53
Pakistan	24	57
Papua New Guinea	8	57
Philippines	16	50
Seychelles	2	24
Singapore	2	46
Solomon Islands	2	50
Sri Lanka	4	46
Thailand	15	47
Vanuatu	2	30
Vietnam	20	47
Wake Island	1	52

Remotely-sensed data sets for the AAM region

Variable	Source	Grid spacing	Time span
Precipitation	Global Precipitation Climatology Project (blended satellite and rain gauge observations)	Monthly; global; 2.5° x 2.5°	1979-2001
		Monthly; global; 1° x 1°	1998-present
	Special Sensor Microwave/Imager	Monthly; global; 1° x 1°	
	GOES Precipitation Index (GPI), based on infrared measurements from GOES, METEOSAT, and GMS	Monthly; 40°S-40°N; 2.5° x 2.5°	1987-1994
	INSAT Precipitation Index, based on infrared measurements	Three-hourly; 40°S-40°N, 30°E-120°E; 1° x 1°	1986-1995
	SMMR Monsoon precipitation	Monthly; 30°S-30°N, 29°E-160°W; 1° x 1°	1998-present
	TRMM products		
	2A12 (TMI)	Instantaneous; 38°S-38°N; 0.5° x 0.5°	Oct. 1978-Aug. 1987
	2B31 (Combined PR and TMI)	Instantaneous; 38°S-38°N; 0.1° x 0.1°	
	3A11 (TMI)	Monthly; 38°S-38°N; 5° x 5°	Dec. 1997-present
	3B25 (PR)	Monthly; 38°S-38°N; 5° x 5°	
	3B42 (Combined TMI-PR and GPI)	Daily; 38°S-38°N; 1° x 1°	Dec. 1997-present
3B43 (Combined TMI-PR, GPI, SSM/I, GPCC raingauges)	Monthly; 38°S-38°N; 1° x 1°	Dec. 1997-	

			present Dec. 1997-present Dec. 1997-present Dec. 1997-present
Evaporation	Special Sensor Microwave/Imager,	Monthly; global; ocean-only; 1°x1° Daily; global; ocean-only; 1°x1°	1987-2000
Precipitable water	TIROS Operational Vertical Sounder- Path A GVAP/NVAP blended SSM/I, TOVS, radiosondes	Monthly; global; 1° x 1° Daily; global; 1° x 1° Monthly; global; 1° x 1° Daily; global; 1° x 1°	1979-2000 1988-1997
Clouds	International Satellite Cloud Climatology Project TIROS Operational Vertical Sounder-Path A	Monthly; global; 1° x1° Monthly; global; 1° x1°	1983-1991 1979-2000
Outgoing Long-wave Radiation	NOAA NASA TOVS Pathfinder Path-A	Daily and monthly; global; 2.5° x 2.5° Daily; global; 1° x 1°	1974-present 1979-present
Earth Radiation Budget (Short- and long-wave fluxes)	NASA	Monthly; global; 2.5° x 2.5°	1984-1990