

Soil Moisture – atmosphere coupling from CMIP5 to CMIP6

AMIP- Experiment	Atmosphere	Land-surface	
APChoi	AP	Choi	CMIP5A
APctrl	AP	Ctrl	-
6Actrl	6A	Ctrl	CMIP6
6AChoi	6A	Choi	-

Soil Moisture – atmosphere coupling from CMIP5 to CMIP6

AMIP- Experiment	Atmosphere	Land-surface	
APChoi	AP	Choi	CMIP5A
APctrl	AP	Ctrl	-
6Actrl	6A	Ctrl	CMIP6
6AChoi	6A	Choi	-

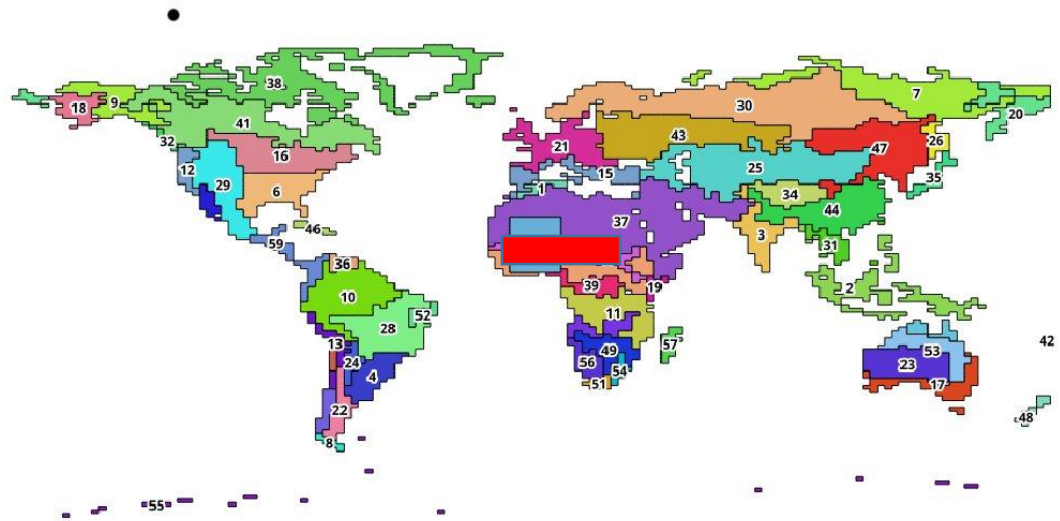
Variable (Monthly means)	Dataset	2001-2010 : All data available
SW radiation (net surface)	CERES-EBAF	
Precipitation	GPCP	
Evaporation	Jung	In Situ upscaled products
Evaporation	GLEAM	Data assimilation of satellite observations
Superficial soil moisture	CCI ESA	Blended Active and passive microwave retrieval
Superficial soil moisture	GLEAM	Data assimilation of satellite observations

Soil Moisture – atmosphere coupling from CMIP5 to CMIP6

AMIP- Experiment	Atmosphere	Land-surface	
APChoi	AP	Choi	CMIP5A
APctrl	AP	Ctrl	-
6Actrl	6A	Ctrl	CMIP6
6AChoi	6A	Choi	-

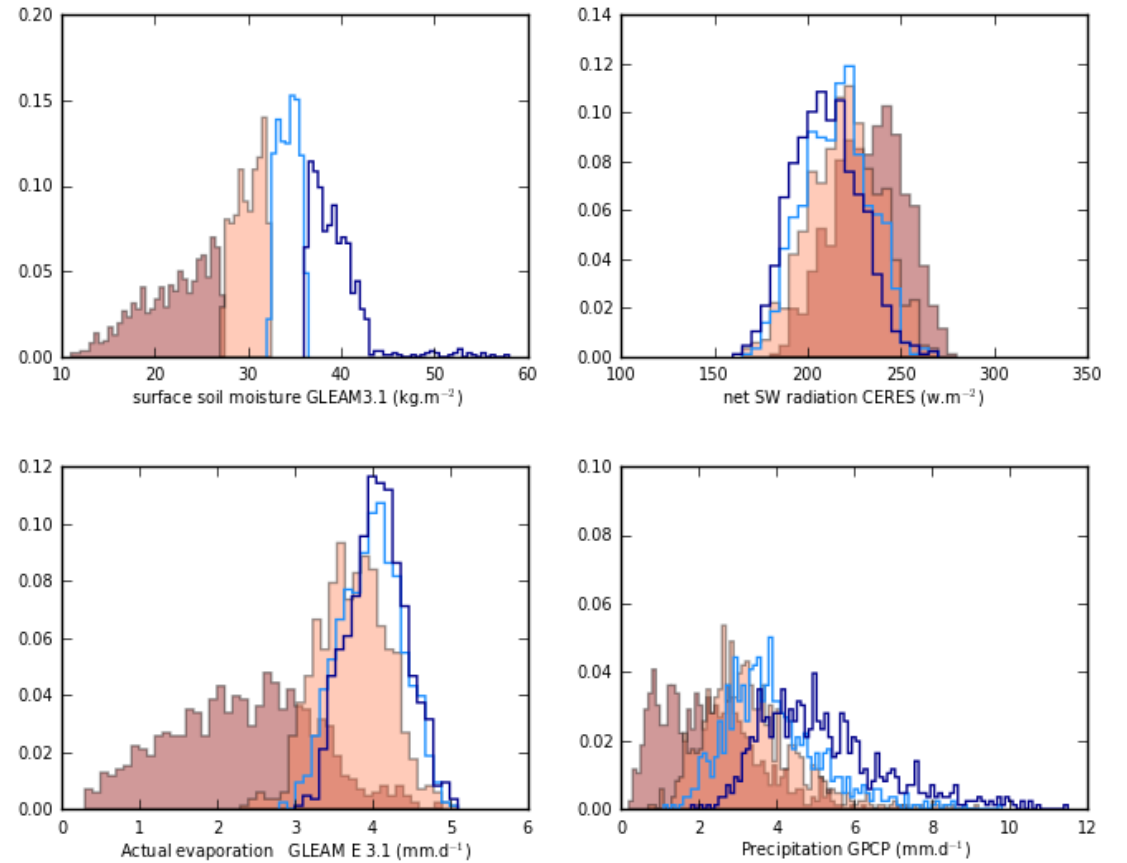
Variable (Monthly means)	Dataset	2001-2010 : All data available
SW radiation (net surface)	CERES-EBAF	
Precipitation	GPCP	
Evaporation	Jung	In Situ upscaled products
Evaporation	GLEAM	Data assimilation of satellite observations
Superficial soil moisture	CCI ESA	Blended Active and passive microwave retrieval
Superficial soil moisture	GLEAM	Data assimilation of satellite observations

Co-distribution: humidité superficielle du sol, SW_{net} , Evaporation, Precipitation (monthly, JJA) analysées par quartiles de l'humidité du sol à l'échelle régionale

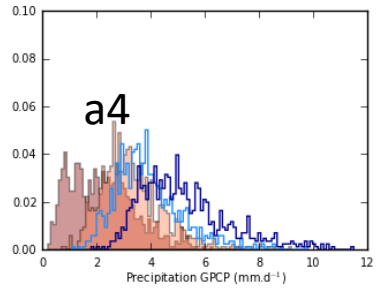
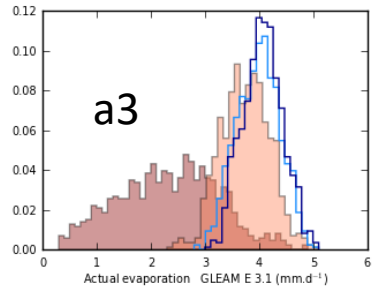
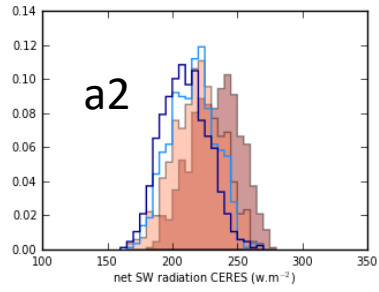
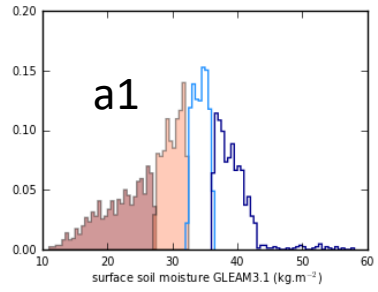




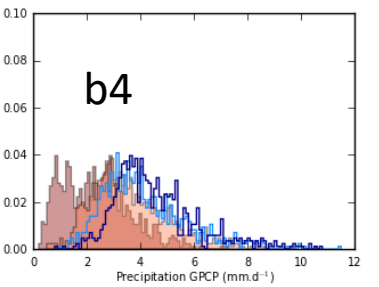
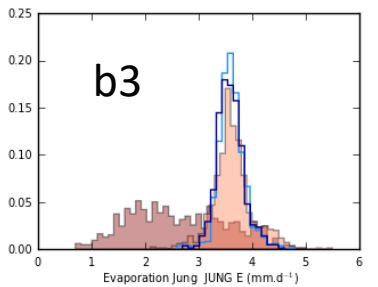
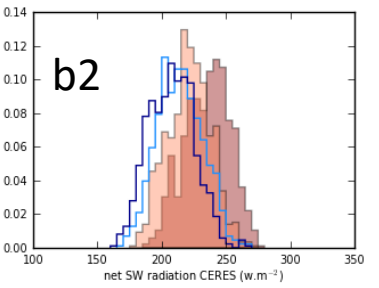
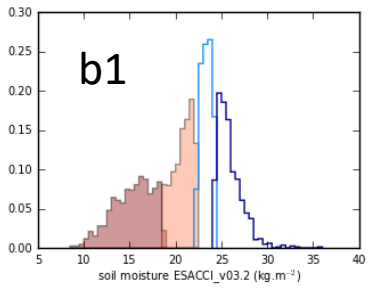
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



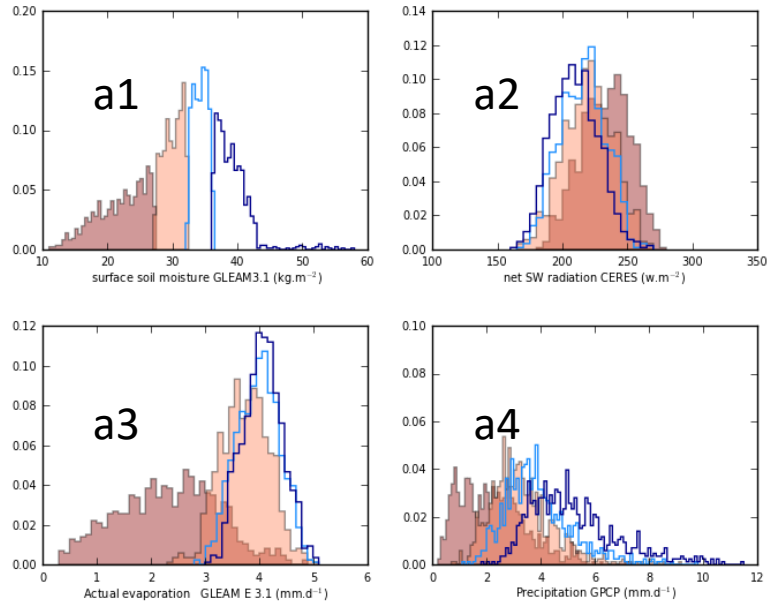
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



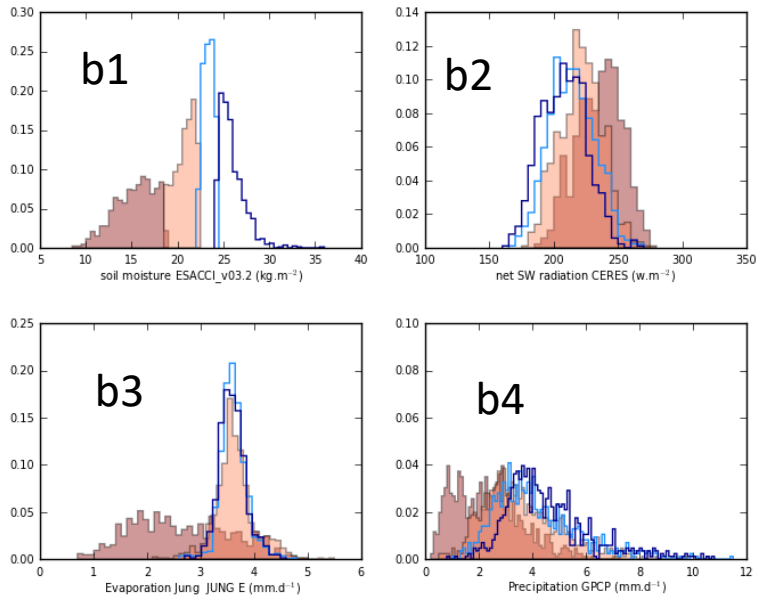
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



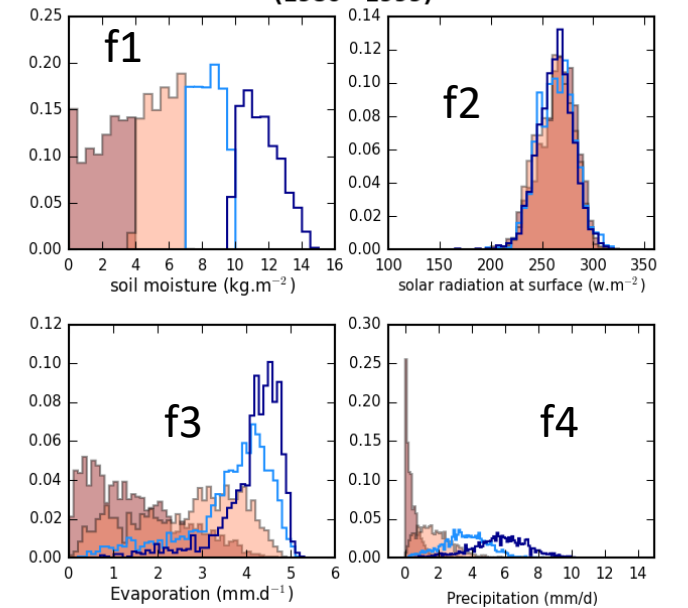
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



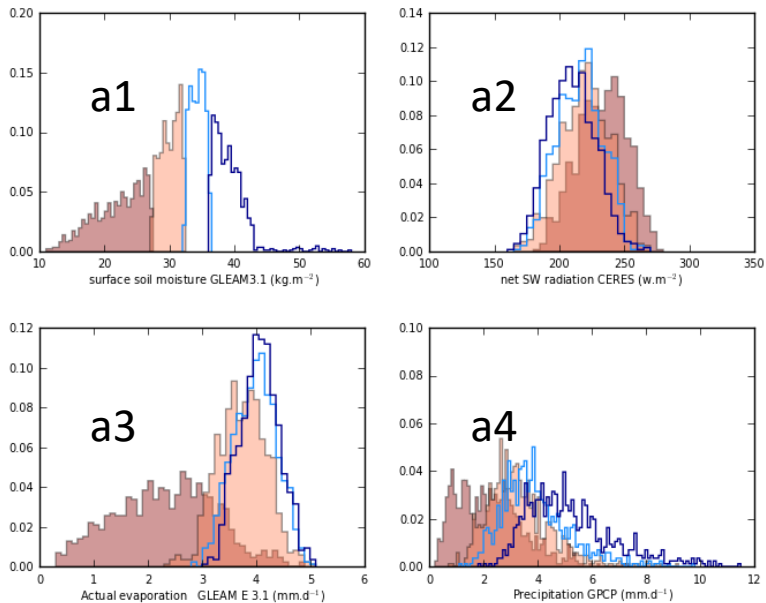
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



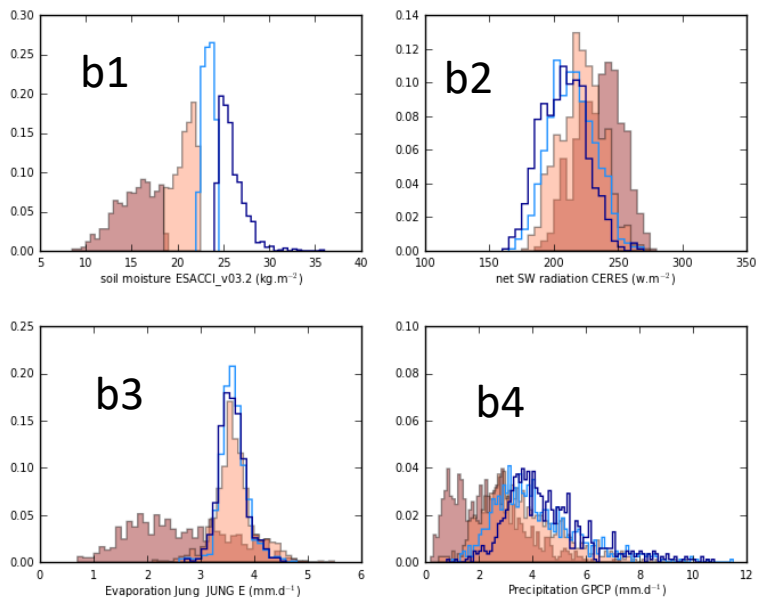
**Simulation LmdzOrChoiAP for the region 6 Southern Great Plains
(1980 - 1999)**



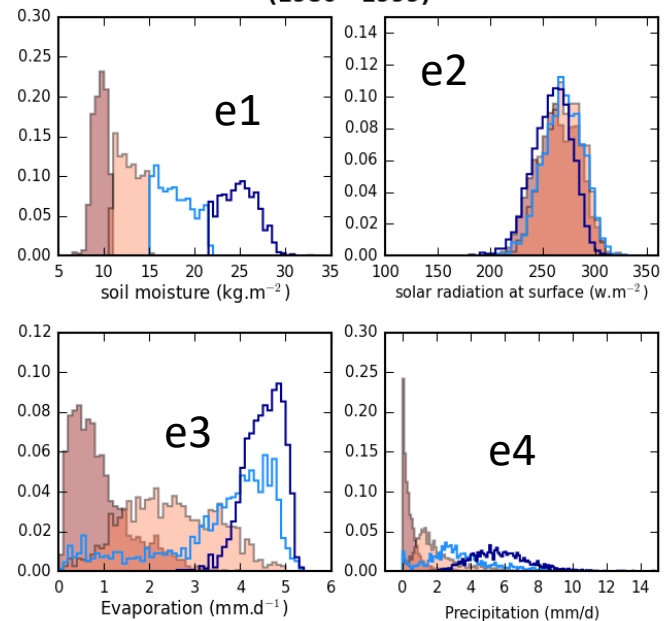
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



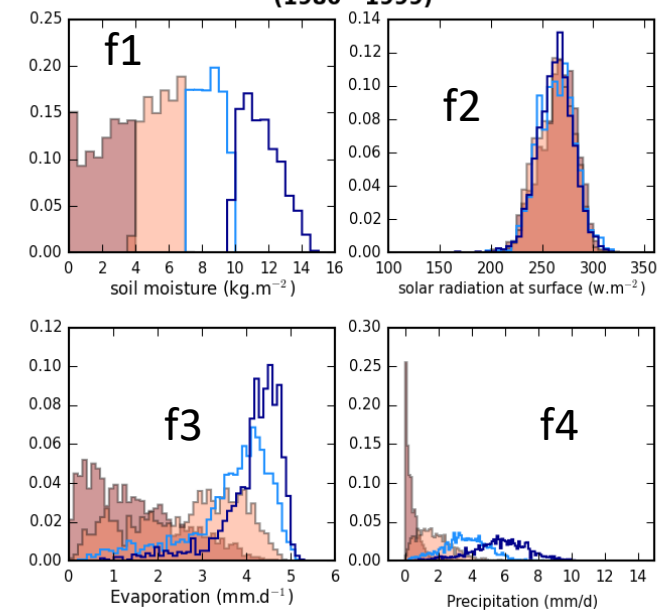
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



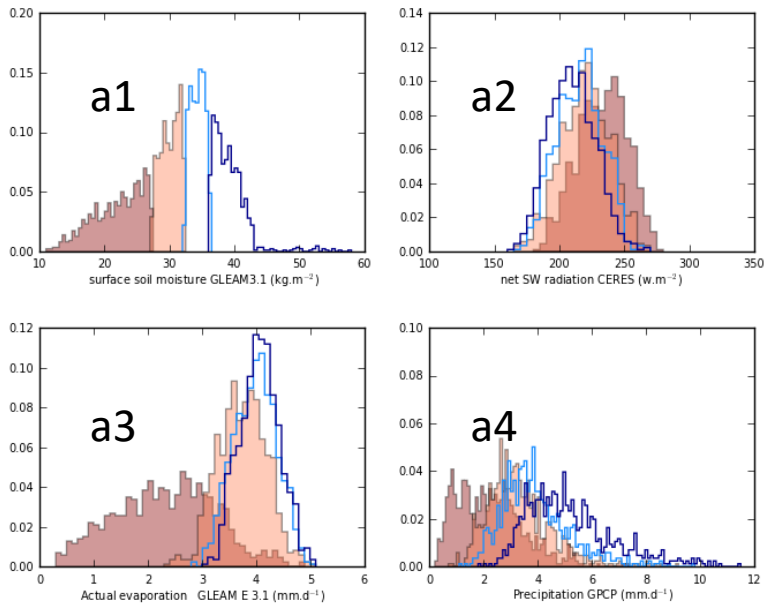
**Simulation LmdzOrAPctrl for the region 6 Southern Great Plains
(1980 - 1999)**



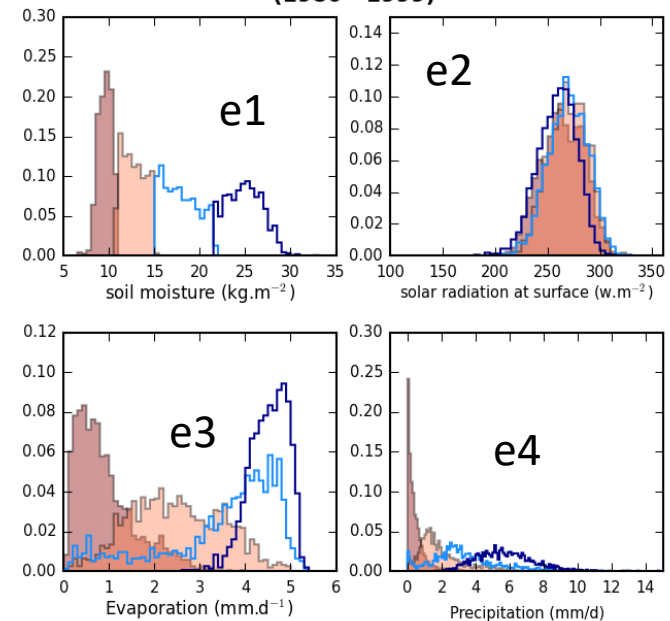
**Simulation LmdzOrChoiAP for the region 6 Southern Great Plains
(1980 - 1999)**



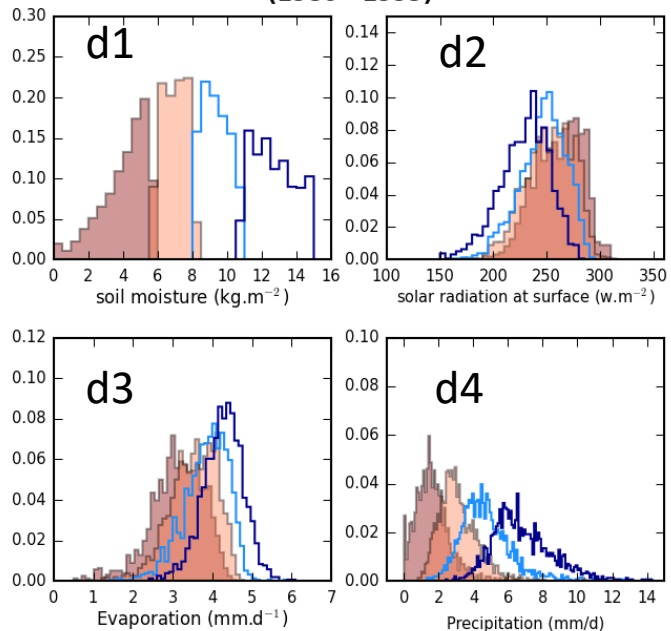
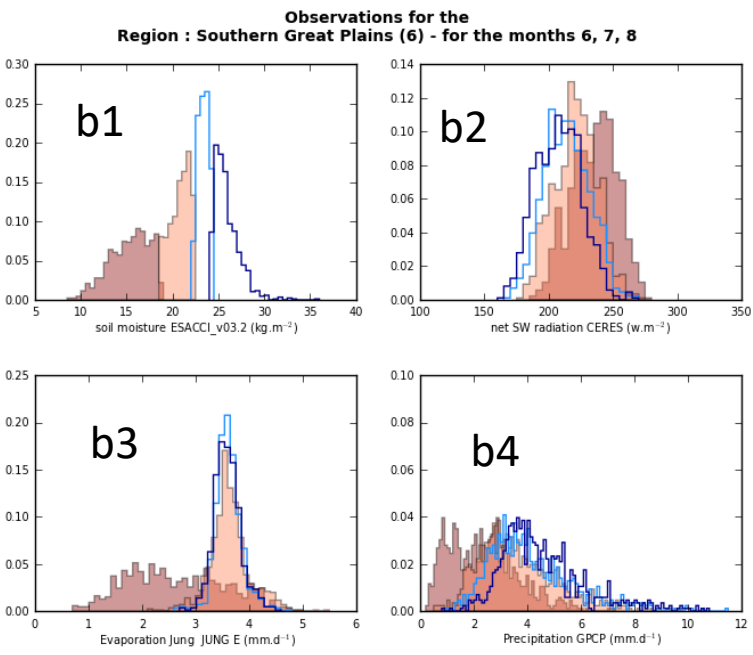
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



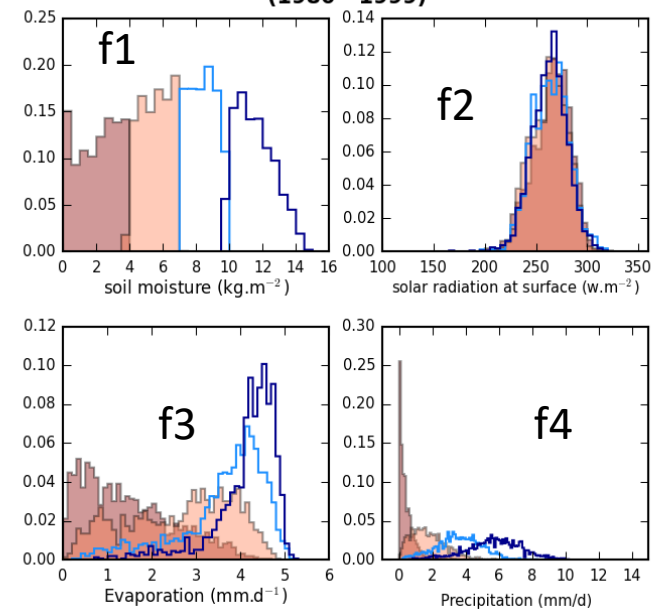
**Simulation LmdzOrAPctrl for the region 6 Southern Great Plains
(1980 - 1999)**



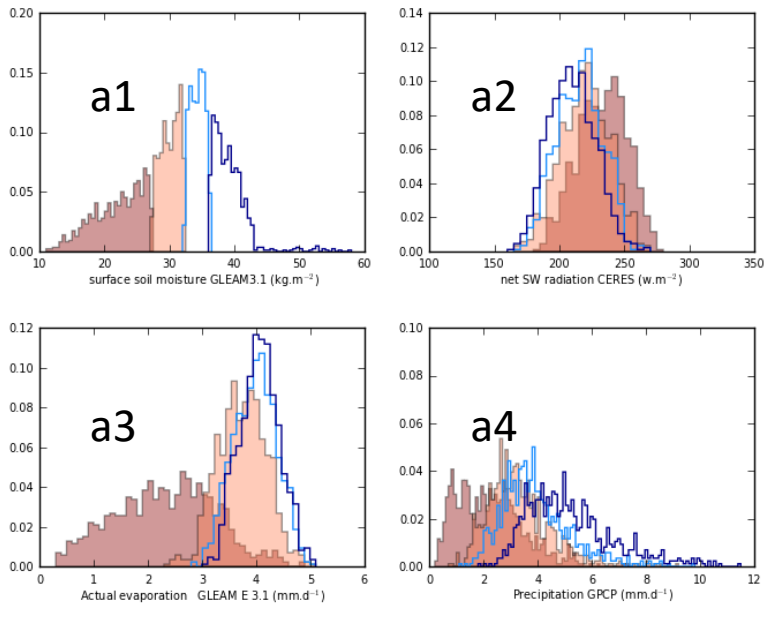
**Simulation LmdzOrChoi6A for the region 6 Southern Great Plains
(1980 - 1999)**



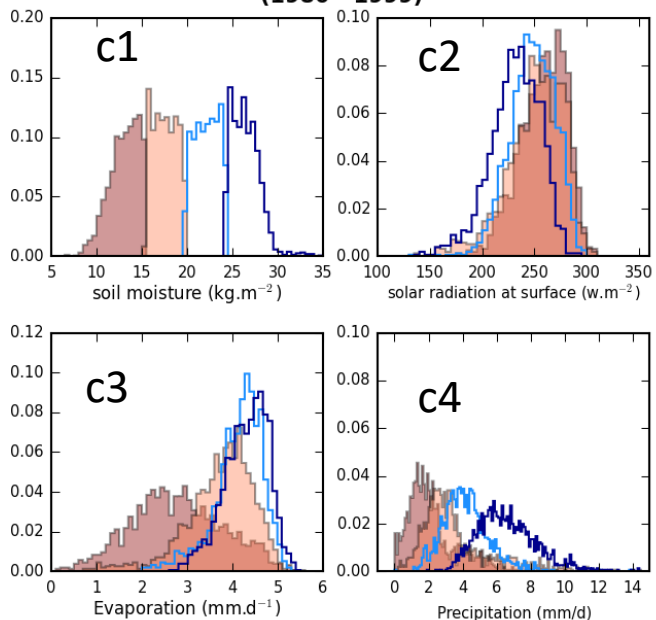
**Simulation LmdzOrChoiAP for the region 6 Southern Great Plains
(1980 - 1999)**



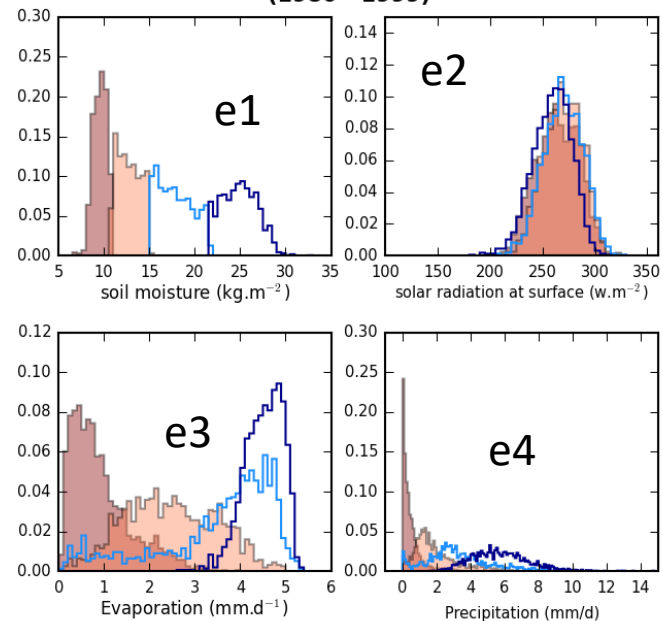
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**



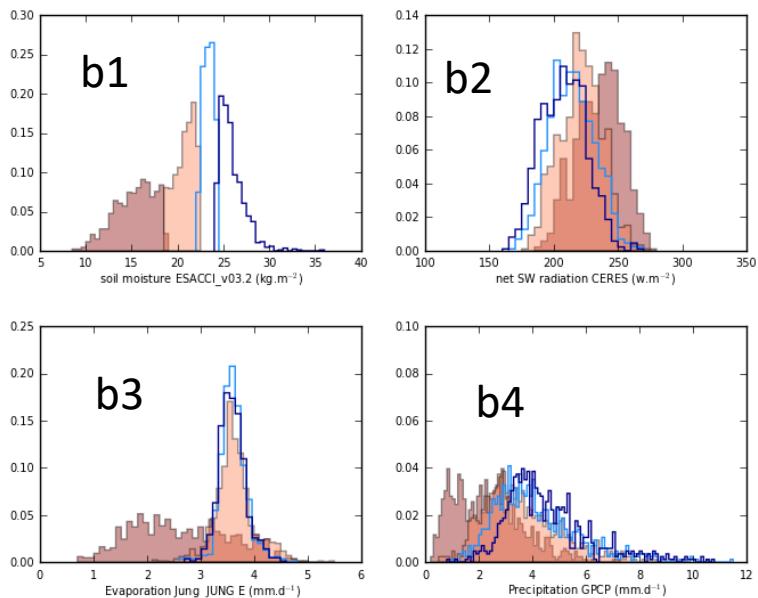
**Simulation LmdzOr6Actrl for the region 6 Southern Great Plains
(1980 - 1999)**



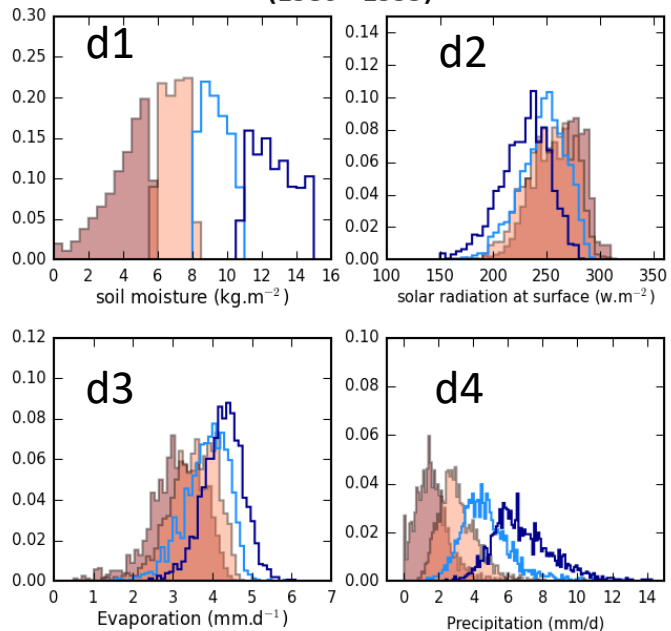
**Simulation LmdzOrAPctrl for the region 6 Southern Great Plains
(1980 - 1999)**



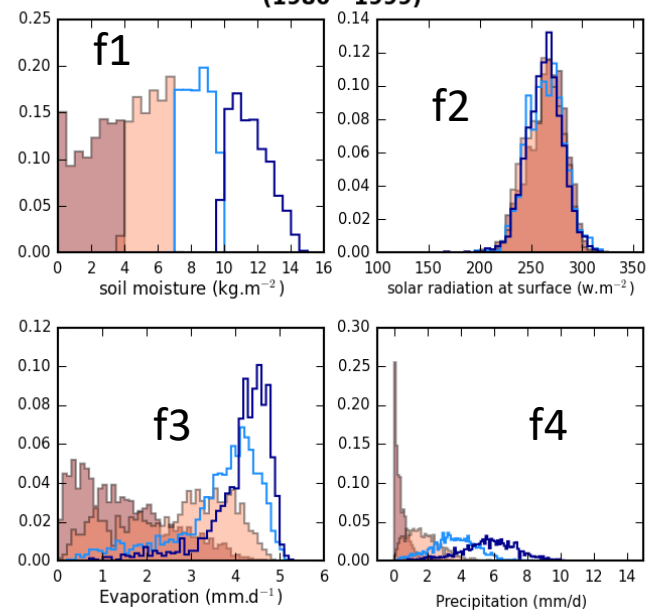
**Observations for the
Region : Southern Great Plains (6) - for the months 6, 7, 8**

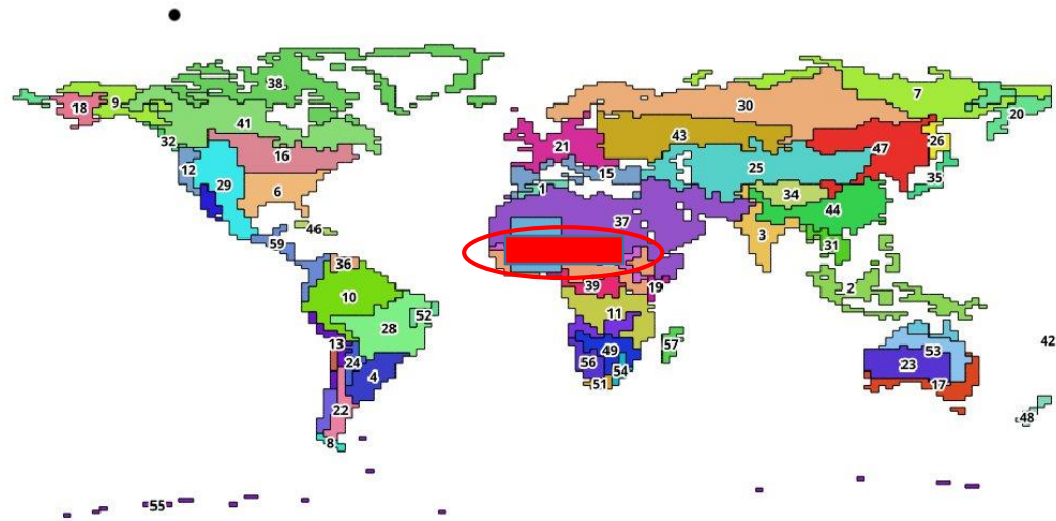


**Simulation LmdzOrChoi6A for the region 6 Southern Great Plains
(1980 - 1999)**

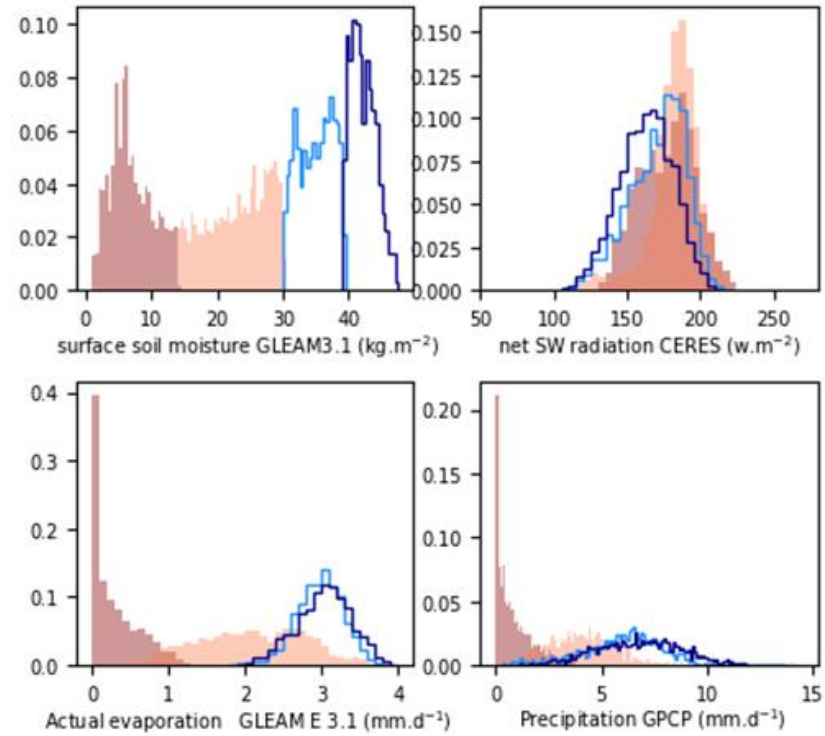


**Simulation LmdzOrChoiAP for the region 6 Southern Great Plains
(1980 - 1999)**

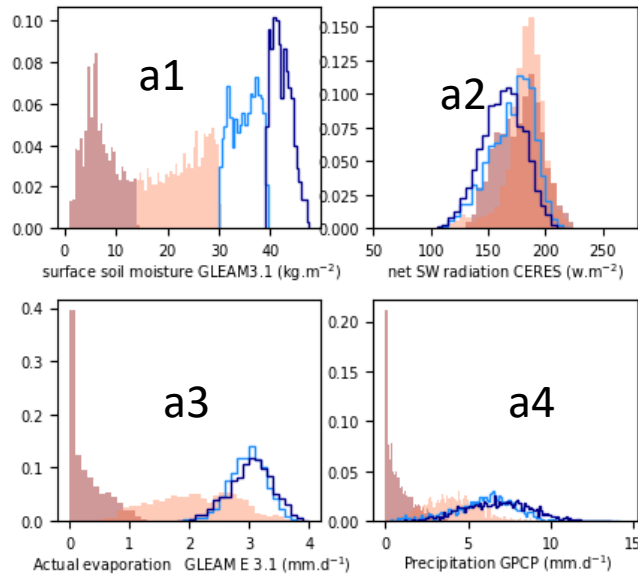




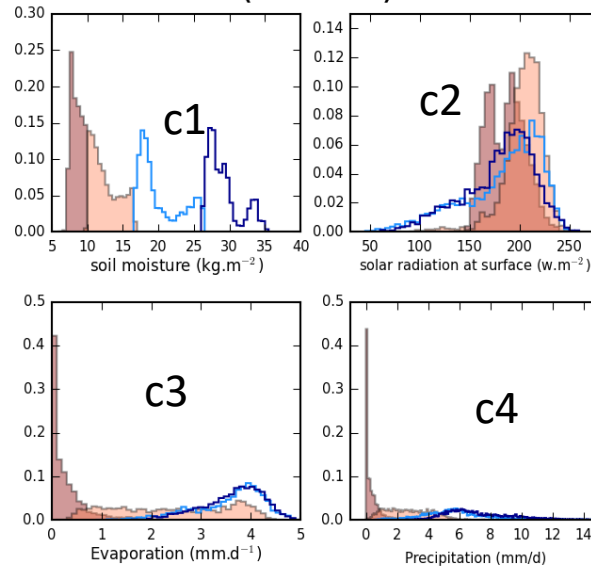
Observations for the Region : Sahel (60) - for the months 6, 7, 8



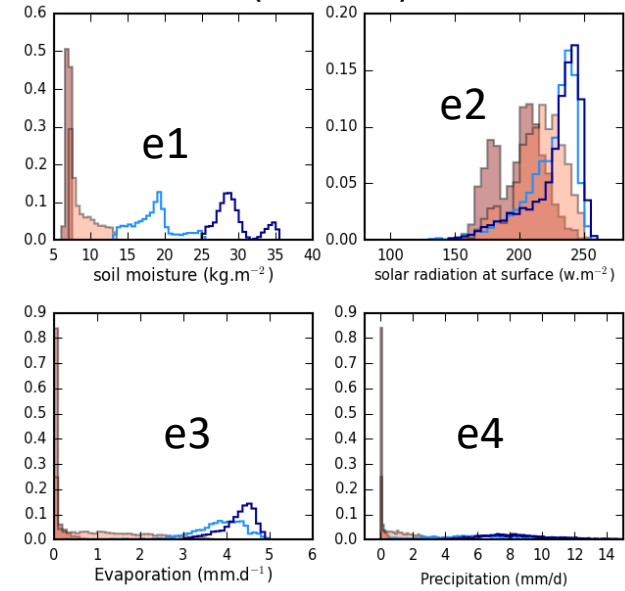
Observations for the Region : Sahel (60) - for the months 6, 7, 8



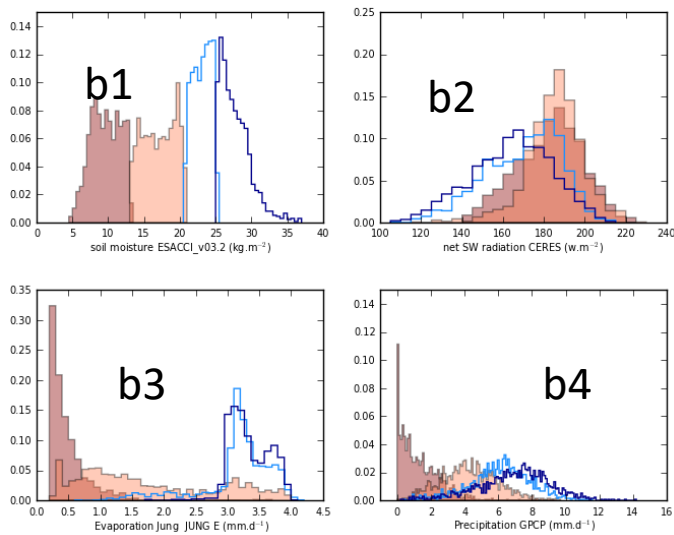
Simulation LmdzOr6Actrl for the region 60 Sahel (1980 - 1999)



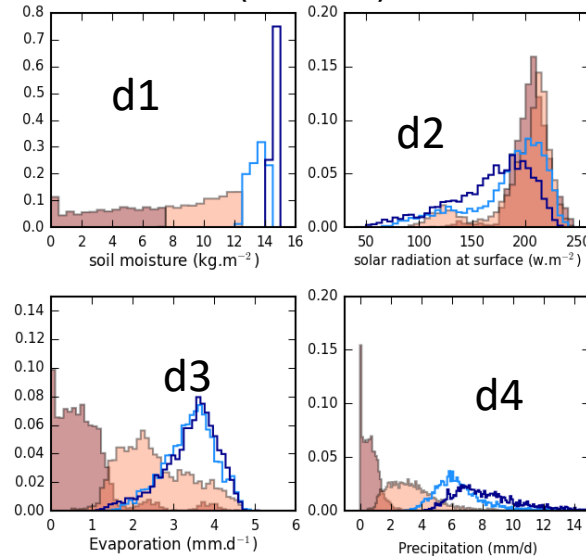
Simulation LmdzOrAPctrl for the region 60 Sahel (1980 - 1999)



Observations for the Region : Sahel (60) - for the months 6, 7, 8



Simulation LmdzOrChoi6A for the region 60 Sahel (1980 - 1999)



Simulation LmdzOrChoiAP for the region 60 Sahel (1980 - 1999)

