

MJO-ENSO Diagnostics for Seasonal Forecasts

Cristiana Stan

George Mason University

Forecast Skill of MJO-ENSO Indices

MaKE		Observed			HSS
		El Niño	Other	Total	
April	El Niño	9	8	17	0.482
	Other	0	12	12	
	Total	9	20	29	
May	El Niño	9	9	18	0.431
	Other	0	11	11	
	Total	9	20	29	

Niño 3.4		Observed			HSS
		El Niño	Other	Total	
April	El Niño	6	4	10	0.453
	Other	3	16	19	
	Total	9	20	29	
May	El Niño	6	4	10	0.453
	Other	3	16	19	
	Total	9	20	29	

MaKE: MJO-Kelvin wave-ENSO

MaKI: MJO-Kelvin wave Influence

MaKI		Observed			HSS
		Strong	Other	Total	
April	Strong	3	3	6	0.564
	Other	0	11	11	
	Total	3	14	17	
May	Strong	2	3	5	0.368
	Other	1	12	13	
	Total	3	15	18	

CFS-v2 Reforecasts

MaKE		Observed			HSS
		El Niño	Other	Total	
CFS-v2	El Niño	9	9	18	0.378
	Other	2	15	17	
	Total	11	24	35	

Niño 3.4		Observed			HSS
		El Niño	Other	Total	
CFS-v2	El Niño	5	9	14	0.074
	Other	6	15	21	
	Total	11	24	35	

- Reforecast period: 1984– 2014
- 5 ensemble members
- IC: 01 April
- Forecast length: 3 months

ROC for each ensemble member

