



CLIMATE RESEARCH FOR DEVELOPMENT (CR4D) IN AFRICA
Regional Workshop on Seasonal to Sub seasonal (S2S)

14 May 2018
Djiboutia, Djiboutia

Seasonal Forecasts at Regional/National

TINNI HALIDOU Seydou
CILSS/AGRHYMET Regional Centre
h.tinni@agrhymet.ne

Un autre Sahel est possible !

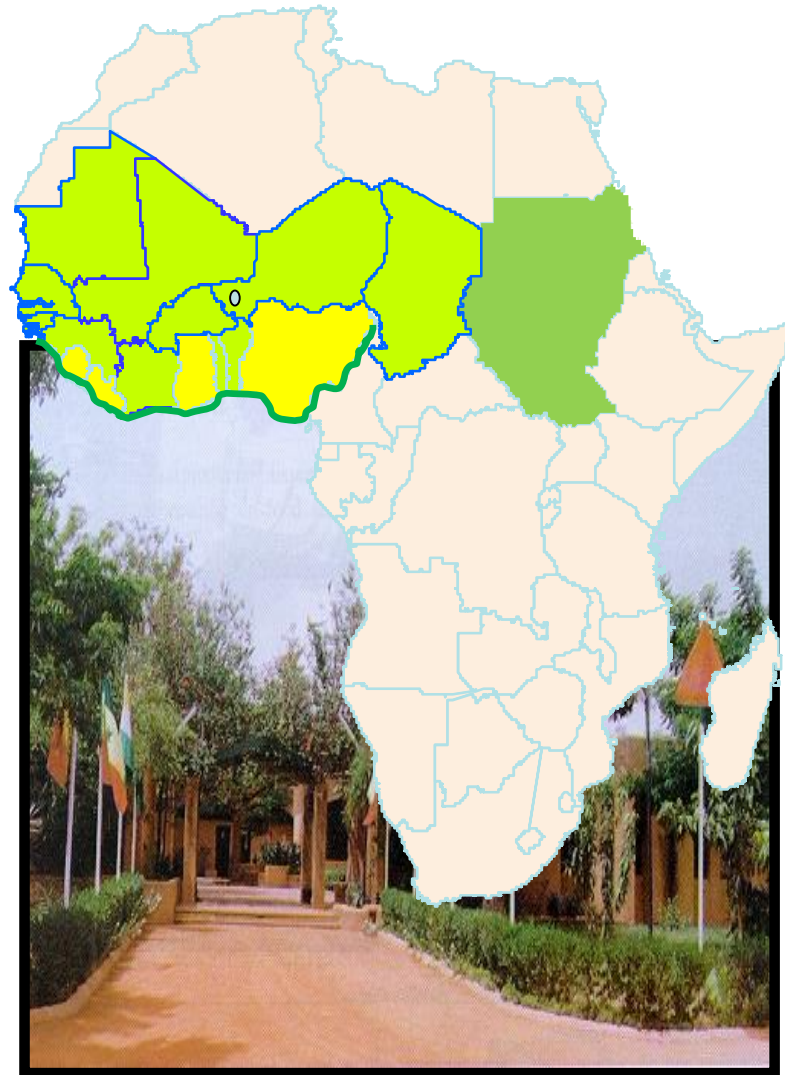
www.cilss.bf





Centre Régional AGRHYMET

- **AGRHYMET** created in 1974, after the drought 1970's,
- **14 countries members:** But all the products are for the 17 west-african and ECOWAS countries
- **Missions**
 - Collect data, produce and disseminate information on food security, water resources management, drought and desertification, climate change
 - Strength the capacities of the countries members
 - Strength the interstate cooperation by shearing good practice between countries



Un autre Sahel est possible !

www.cilss.bf





Seasonal forecast

1. Evolution

- ❑ 1998-2010:
 - RR JAS
 - River basin flows

- ❑ 2011: New approach
 - RR JJA et JAS
 - Agrometeorological characteristics of the RR season
 - Onset date
 - Ending date
 - Length of dry spells
 - River basin flow

- ❑ ***Onset and ending dates of the rivers flows !!!!***

Un autre Sahel est possible !

www.cilss.bf





Seasonal forecast

2. Methodology

- Include staff from NMHS, regional international
- experts et Three (3) working groups (Agro meteorology, Climatology et hydrology)
- Production of forecasts:
 - RR,
 - Onset and secession dates,
 - Dry spells
 - Rivers discharge
- Users forum
 - farmers
 - Water resources managers
 - NGOs, etc.
- Two (2) workshops since 2011
 - Area with monomodal regime of RR (sahelo-sudanian region)
 - Area with bimodal RR regime (Gulf de Guinea)

Un autre Sahel est possible !

www.cilss.bf



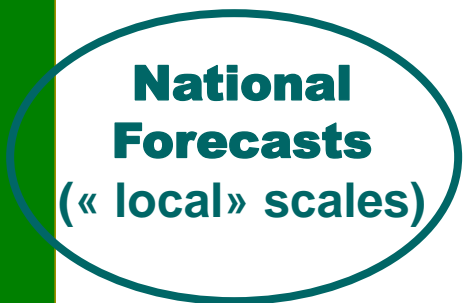


Seasonal forecast

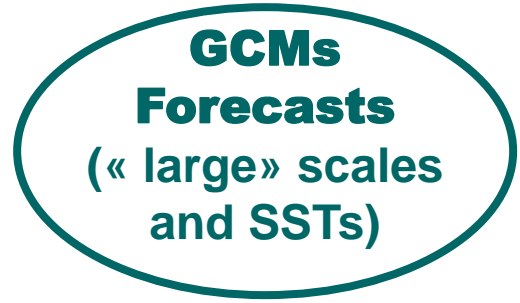
Un autre Sahel est possible !

www.cilss.bf

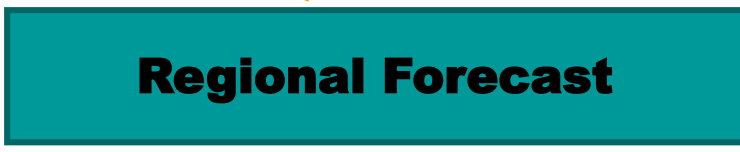
17 Countries



Global Producing Centres



Regional Institutions





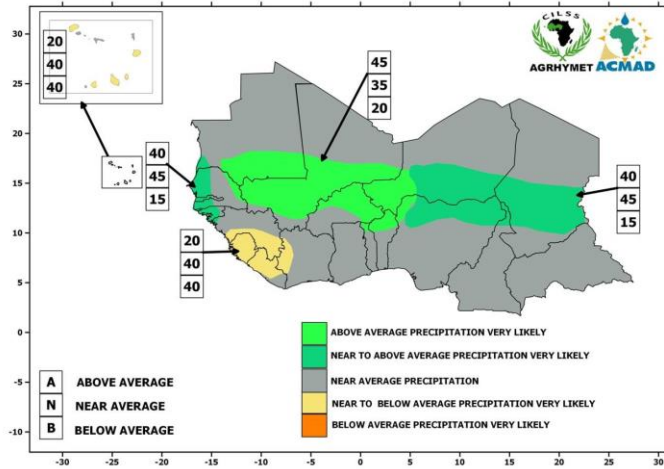
Ongoing processes with partners

- AGRHYMET is the process to be endorsed by ECOWAS as RCC
- AGRHYMET will start the demonstration phase to be a WMO-RCC
- AGRHYMET with ECOWAS in the process to finalize a joint GFCS project
- AGRHYMET and ACMAD agreement on AGRHYMET to conduct the seasonal forecast processes in W.A. with the support of other partners (including ACMAD)



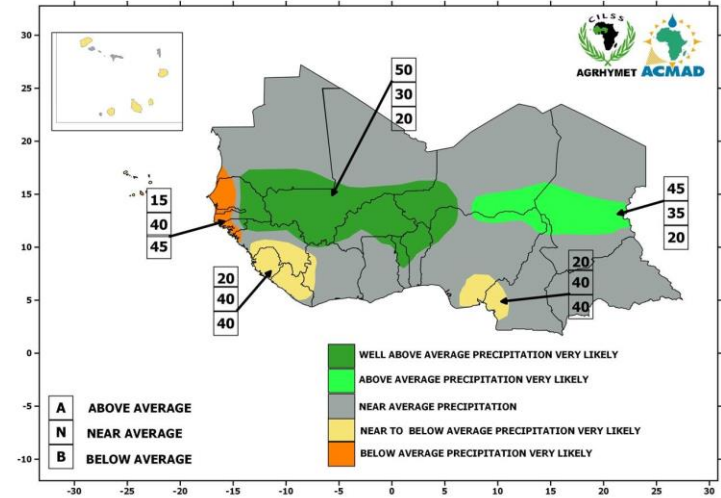


SEASONAL PRECIPITATION FORECAST
FOR SUDANO-SAHELIAN REGION OF AFRICA
VALID FOR JULY-AUGUST-SEPTEMBER 2018
ISSUED ON MAY 4, 2018



2018 JJA rainfall forecast

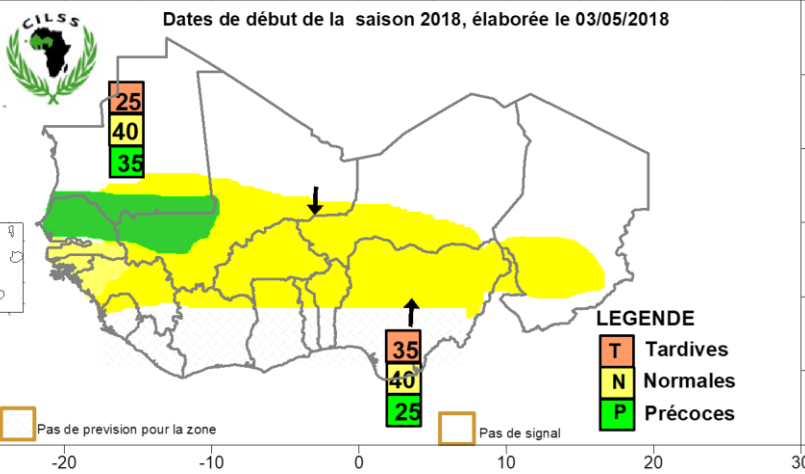
SEASONAL PRECIPITATION FORECAST
FOR SUDANO-SAHELIAN REGION OF AFRICA
VALID FOR JUNE-JULY-AUGUST 2018
ISSUED ON MAY 4, 2018



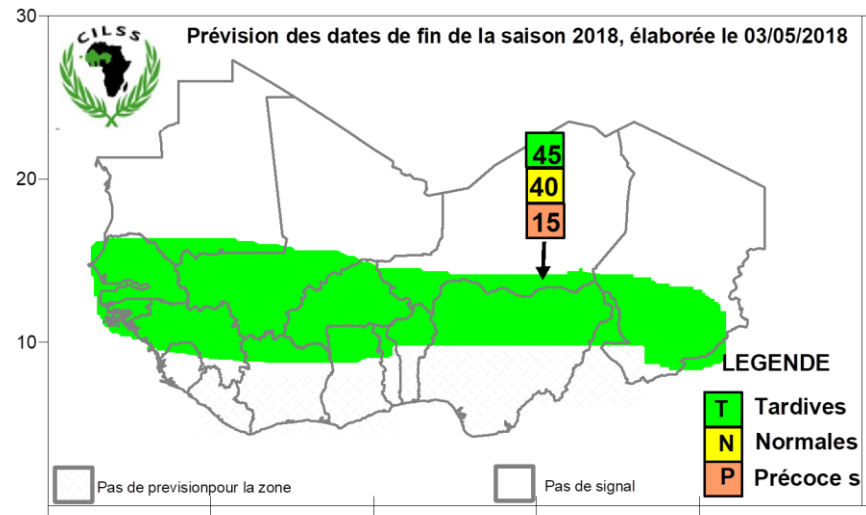
2018 JAS rainfall forecast

Un autre Sahel est possible !

www.cilss.bf



Starting date of season forecast

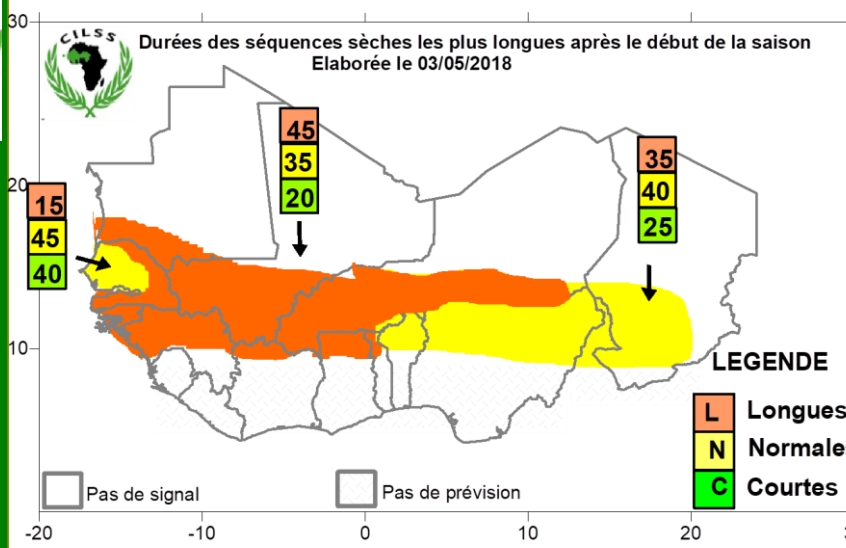


Ending date of season forecast

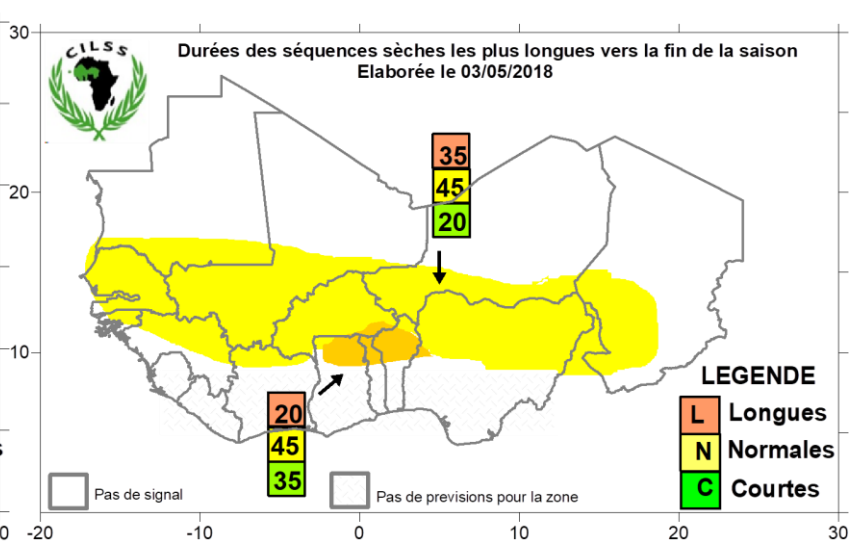




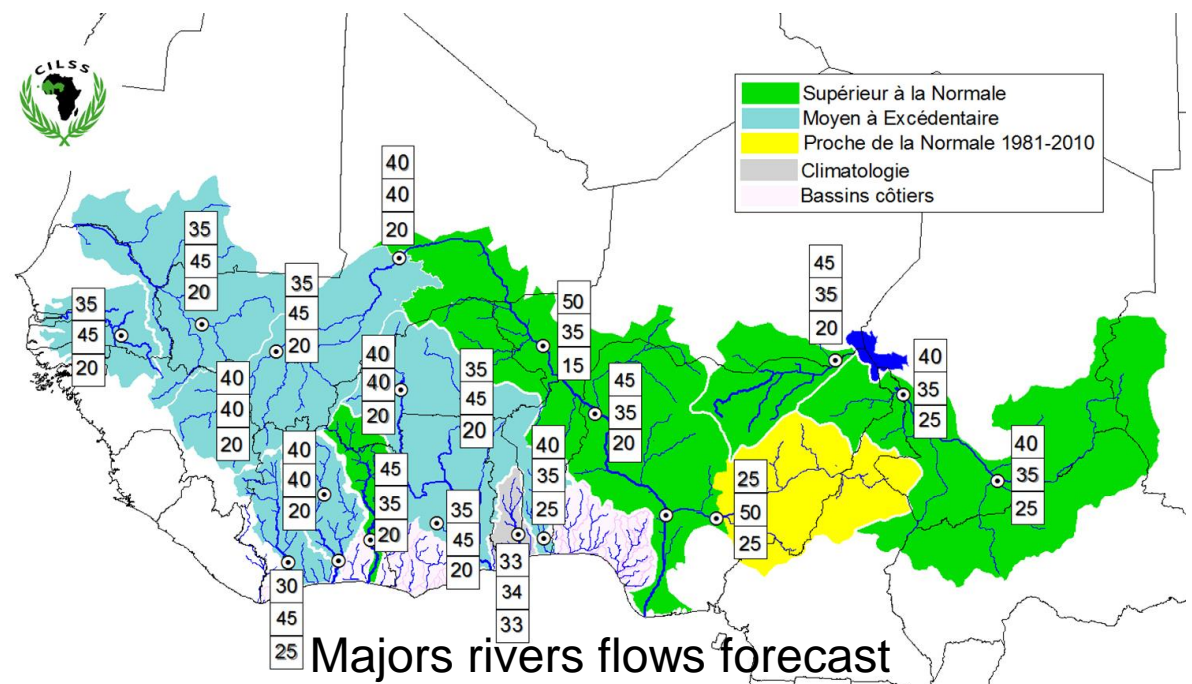
www.cilss.bf ■ Un autre Sahel est possible !



Length of dry spells at the beginning of the season



Length of dry spells at the end of the season





Dissemination and communication

Un autre Sahel est possible !

www.cilss.bf

- Presse release
- Special Bulletin
- Mailing list
- AGRHYMET website : WWW.agrhymet.ne
- New approach
 - Communication with users through some pilots initiatives : CCAFS, ISACIP, ACCIS, ONGs
 - Local radio, farmers, local decisions makers, local technical services, etc.



Communication of seasonal forecast with some national services



Communication of seasonal forecast with end-users





Verification at national Levels

Un autre Sahel est possible !

www.cilss.bf

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	STN	SAVE	KANDI	PARAKOL	MALANVI	BANIKOAR	BEMBERI	DJOUGOU	KOUANDE	NATITING	NIKKI	TANGUIETA	TCHAOUF	BETEROU	KALALE	Okpara	OUESSE		
2	LAT	8.03	11.13	9.35	11.87	11.3	10.2	9.7	10.33	10.32	9.93	10.62	8.87	9.2	10.3	9.47	8.5		
3	LON	2.47	2.93	2.6	3.4	2.43	2.67	1.67	1.68	1.38	3.2	1.27	2.6	2.27	3.38	2.73	2.42		
4	1981	117	114	114	187	108	122			144	109	121		114		119	114	125	
5	1982	101	97	105	188	123	111			104	137	126		174		129	105	107	97
6	1983	101	134	136	152	144	123			124	125	130		138		127	134	141	124
7	1984	99	113	122	157	136	122			101	106	117		106		99	108	123	114
8	1985	131	136	122	127		152	122		104	89	140	171	117		132	131	91	75
36	2013	116	101	82	161	166	156	85	119	107	92					128	104	121	
37	2015	77	162	159	184	164	140			125	177	135			131	129	136	125	
40	Tercile Inferieur	97,71	124,57	106,91	143	115,48	119,46	101,81	108,82	107,57	128,4	117,64	100	101,25	115	106,82	103,16		
41	Tercile superieur	113,28	135,14	120,74	169	138,12	125,82	110	127,28	116,42	144	135,82	108,56	114,5	134,36	122,82	115,32		
43	OBSERVATION	P	T	T	T	T	T		N	T	N		T	N	T	T			
44																			
45	PREVISION	P	T	T	T	T	T		T	T	T		T	T	T	T			
46																			
47	VERIFICATION	V	V	V	V	V	V		F	V	F		V	F	V	V			
48																			
50		NOMBRE DE VRAI		10															
52		NOMBRE DE FAUX		3															
55		AU TOTAL																	
58		NOMBRE DE VRAI		10		POURCENTAGE VRAI		77%											
59		NOMBRE DE FAUX		3		POURCENTAGE FAUX		23%											
61		NOMBRE DE STATIONS		13															

EVALUATION DATE DE DEBUT								
STN	LAT	LON	2015	Tercile Inferieur	Tercile superieur	OBSERVATION	PREVISION	NOTE
SAVE	8.03	2.47	77	98	113	P	P	V
KANDI	11.13	2.93	162	125	135	T	T	V
PARAKO	9.35	2.6	159	107	121	T	T	V
MALANVI	11.87	3.4	184	143	169	T	T	V
BANIKO	11.3	2.43	164	115	138	T	T	V
BEMBE	10.2	2.67	140	119	126	T	T	V
DJOUGO	9.7	1.67		102	110			
KOUANDE	10.33	1.68	125	109	127	N	T	F
NATITIN	10.32	1.38	177	108	116	T	T	V
NIKKI	9.93	3.2	135	128	144	N	T	F
TANGUI	10.62	1.27		118	136			
TCHAOU	8.87	2.6		100	109			
BETERO	9.2	2.27	131	101	115	T	T	V
KALALE	10.3	3.38	129	115	134	N	T	F
Okpara	9.47	2.73	136	107	123	T	T	V
OUESSE	8.5	2.42	125	103	115	T	T	V



Un autre Sahel est possible !

www.cilss.bf

Challenges

Use of seasonal forecast in impacts models

- SARRA-H
- Hype
- Etc.,





www.cilss.bf ■ Un autre Sahel est possible !

Thank you

