# Climate





Map 2: November 2018 Monthly Rainfall Satellite Data (in mm)

November 2018 Monthly Rainfall and Vegetation Cover (Issued December 20, 2018)

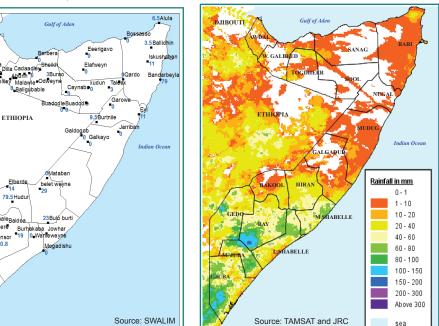
# Highlights

Deyr (October-December) season rainfall performance in November 2018 varied from place to place. There was a general reduction of rainfall activities in many parts of the country. However, in the south, most weather stations reported moderate rains with some stations recording well above average rains. The stations that recorded significant rains include: 67 mm in Qulenjeed of Awdal region, 79 mm in Bandarbeyla of Bari region, 79 mm in Hudur of Bakool region, 60 mm in Baidoa, 77 mm in Bardale, 100 mm in Dinsor of Bay region, and 51 mm in Buale of Middle Juba region (Map 1; Table1). Overall, the 2018 Deyr season rainfall in October and November 2018 has been below average in terms of amount, intensity and coverage, with most southern regions experiencing rainfall deficits of 25 to 100 mm compared to the October-November short-term average (Map 9). Rainfall in the upper catchments of Shabelle and Juba rivers in the Ethiopian highlands in October and November led to rising river water levels along the Shabelle and Juba rivers, but river water levels remained below moderate flood-risk levels throughout the season with no riverine flooding reported, contrary to earlier expectations.

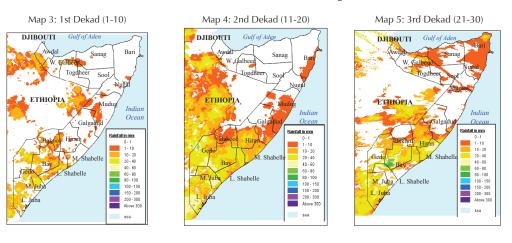
Satellite-derived rainfall estimates show continuation of Deyr rains through late November, with moderate to heavy rains of 40-150mm in the Jubas, Shabelles, Bay, Gedo and parts of Hiran (Maps 2-5 and 9). Vegetation cover measured through the Normalized Difference Vegetation Index (NDVI) for November 2018 indicates deterioration of vegetation conditions in southern Somalia, with the exceptions of parts of Hiran, Bay, Bakool and Gedo that showed improved biomass conditions (Maps 6-8 and 10).

Below average Deyr season rainfall is expected to lead to below average cereal production in southern Somalia and and faster depletion of range resources in northeast and central Somalia. Although there have been some rainfall in early December, this is not expected to have a major positive impact, especially in crop growing areas that experienced poor rainfall during critical stages of crop growth and development.





November 2018: Dekadal Rainfall (RFE) Progression





Map 6: 1st Dekad (1-10)

79.5Hu

ere

Baidoa

Map 7: 2nd Dekad (11-20)

Map 8: 3rd Dekad (21-30)

Sanag

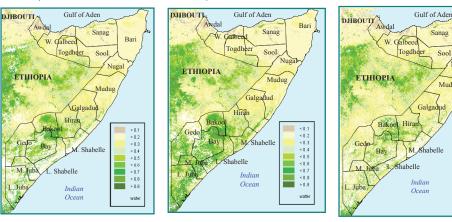
Sool

Mudua

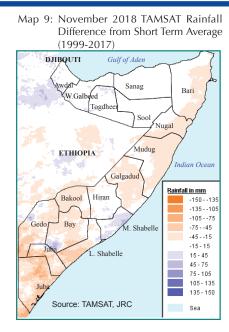
Bari

< 0.1

< 0.3 < 0.4 < 0.5 < 0.6 < 0.7 < 0.8 > 0.8



### Monthly rainfall and Vegetation Cover performance



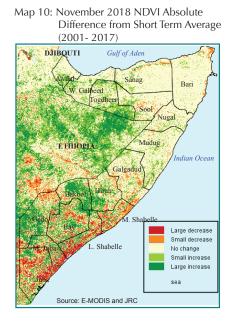
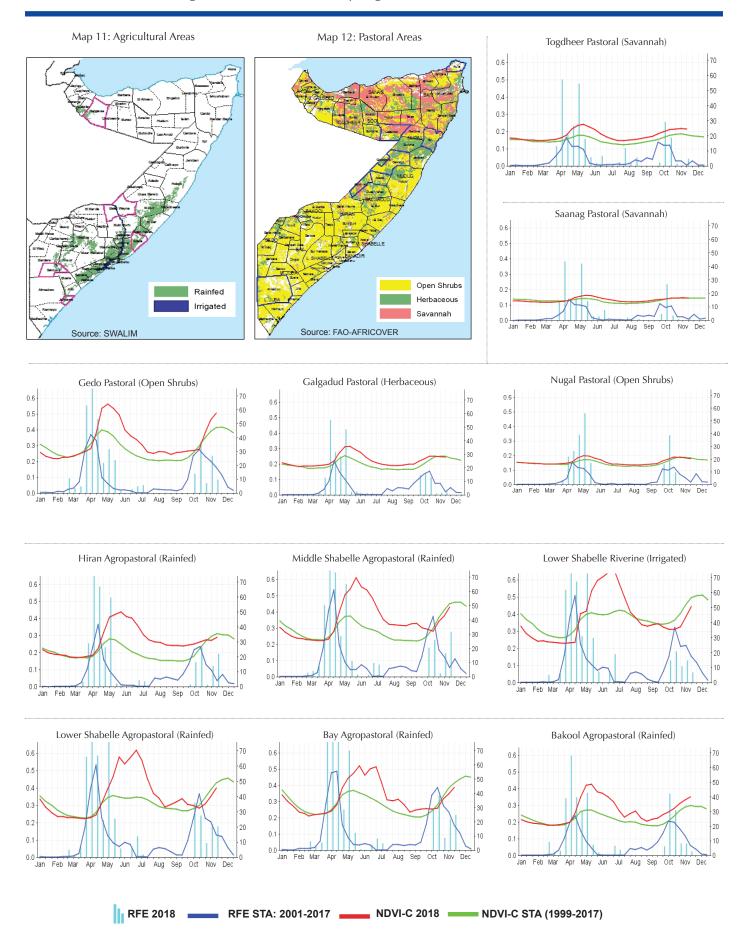


 Table 1: Observed rain gauge data for November 2018 compared to short term monthly averages (STA)

 Northern Regions

 Southern Regions

Andrai         Bornma         0.0         0	Region	Station Name	dek 1	dek 2	dek 3	Nov-18	STA	Region	Station Name	dek 1	dek 2	dek 3	Nov-18	STA
Avdal         Quergieed         0.0         67.5         0.0         67.5         14.0           Bari         Bossasso         0.0		_	-				-		Flberde	0.0	14.0	0.0	14.0	*
Bari         Bossasso         0.0         0	Awdal	Qulenjeed	0.0	67.5	0.0	67.5	14.0				-		-	*
Bari         Qardo         0.0         0.0         0.0         0.0         1.0           Bari         Dangoroyo         0.0         0.0         0.0         11.0         Bay         Burl hatkaba         0.0         19.0         0.0         19.0         0.0         19.0         0.0         19.0         0.0         19.0         0.0 </td <td>Bari</td> <td>Bossasso</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>3.0</td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>*</td>	Bari	Bossasso	0.0	0.0	0.0	0.0	3.0			-		-		*
Bari         Dangoroyo         0.0	Bari	Qardo	0.0	0.0	0.0	0.0	5.0							*
Bari         Balidhin         0.0         0.0         3.5         3.5         9.0           Bari         Alula         0.0         0.0         6.5         6.6         0.0           Bari         Bandarbeyla         0.0         28.0         51.0         79.0         11.0           Bari         Iskushuban         0.0         0.0         0.0         0.0         0.0         10.0           Bari         Iskushuban         0.0         0.0         0.0         0.0         0.0         10.0           Bari         Ossa         0.0         0.0         0.0         0.0         10.0         19.0           Mudug         Jarriban         0.0	Bari	Dangoroyo	0.0	0.0	0.0	0.0	11.0							*
Bari         Alula         0.0         0.0         6.5         6.5         6.0           Bari         Bardaque         12.5         40.0         25.0         77.5         63.0           Bari         Iskushuban         0.0         0.0         11.0         11.0         6.0           Mudug         Galdogob         0.0         0.0         0.0         0.0         10.0           Mudug         Galkayo         0.0         0.0         0.0         14.0         Hiraan         Bulo burl         0.0         17.5         5.5         23.0         *           Mudug         Galkayo         0.0         0.0         0.0         10.0         11.0         Hiraan         Mateban         0.0         0.0         0.0         0.0         *           Nugaal         Everigavo         0.0         0.0         0.0         0.0         5.0         24.0         *           Sanaag         Elefweyn         0.0         0.0         0.0         7.0         Hiraan         Mateban         0.0         0.0         5.0         24.0         *           Sanaag         Elefweyn         0.0         0.0         0.0         7.0         Hiraan         Mateban	Bari	Ballidhin	0.0	0.0	3.5	3.5	9.0		,					00.0
Ban         Bandarbeyla         0.0         28.0         10.0         10.0         10.0         10.0         Bay         Dinsor         2.5         70.9         27.4         100.8         98.0           Mudug         Galdogob         0.0         10.0         0.0         10.0	Bari	Alula	0.0	0.0	6.5	6.5	6.0							
Bart         Iskustrudan         0.0 <t< td=""><td>Bari</td><td>Bandarbeyla</td><td>0.0</td><td>28.0</td><td>51.0</td><td>79.0</td><td>11.0</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td></td></t<>	Bari	Bandarbeyla	0.0	28.0	51.0	79.0	11.0			-			-	
Mudug         Galdogob         0.0         0.0         0.0         0.0         10.0         12.3 <t< td=""><td>Bari</td><td>Iskushuban</td><td></td><td></td><td></td><td></td><td>6.0</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>	Bari	Iskushuban					6.0			-				
Mudug         Jarriban         0.0         0.0         0.0         0.0         1.7.3         0.3         2.3.0           Nugaal         Garowe         0.0         0.0         0.0         0.0         1.0.1           Nugaal         Eyl         0.0         0.0         0.0         1.0.1         Hiraan         Mataban         0.0         0.0         2.0.0         *           Nugaal         Eyl         0.0         3.0         8.0         11.0         15.0         Hiraan         Mataban         0.0         0.0         2.9.0         *           Nugaal         Burthile         0.0         3.0         8.0         11.0         15.0         Hiraan         Mataban         10.0         9.0         5.0         2.4.0         *           Sanaag         Elafweyn         0.0         0.0         0.0         7.0         Middle Shabelle         Jowhar         10.0         9.0         5.0         24.0         *           Sool         Talesx         3.0         0.0         0.0         10.0         Mean for the same period (current - 1000 Ferm         Mean for the same period (current - 1001 Ferm Mean / NDVI is presented as absolute difference from Long Term Mean / Current'100/LTM.           Sool         xudun	Mudug	Galdogob	0.0	0.0	0.0					-		-		
Mudugi Nuggal         Carkeyo         0.0	Mudug	Jarriban									-			
Initial         Delicit Weyne         0.0         0.0         29.0								Hiraan						
Nugaal         Burtnile         0.0         0.0         9.5         9.5         14.0           Sanaag         Eeerigavo         0.0         0.0         0.0         0.0         5.0         24.0         *           Sanaag         Elafweyn         0.0         0.0         0.0         5.0         10.0         9.0         24.0         *           Sool         Taleex         3.0         0.0         0.0         7.0         Monthly rainfall and NDVI performance maps           Sool         Las Aanod         0.0         0.0         0.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         11.0         10.0	Nugaal							Hiraan	belet weyne	0.0	0.0	29.0	29.0	*
Sanaag         Eeerigavo         0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>Middle juba</td><td>Buale</td><td>0.0</td><td>43.0</td><td>8.5</td><td>51.5</td><td>*</td></t<>						-		Middle juba	Buale	0.0	43.0	8.5	51.5	*
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Sol         Taleex         3.0         0.0         0.0         3.0         8.0           Sool         Las Aanod         0.0         0.0         0.0         10.0         10.0           Sool         Caynabo         0.0         0.0         0.0         10.0         13.0           Sool         Caynabo         0.0         0.0         0.0         13.0         Mean For the same period (current - long term mean), while TAMSAT-RFE is presented as the relative difference from Long Term Mean (Current'100)/LTM.           Sool         xudun         0.0         0.0         0.0         13.0           Togdheer         Buadodle         0.0         0.0         13.0         8.0           Togdheer         Sheikh         0.0         0.0         10.0         11.0           Togdheer         Buadodle         0.0         0.0         0.0         13.0           Togdheer         Buadodle         0.0         0.0         11.0         10.0         11.0           Wogooyi Galbeed         Gebiley         0.0         0.0         13.0         14a.0         14a sources are NOA/USGS, European Centre for Medium-range Weather           Wogooyi Galbeed         Malawle         0.0         0.0         0.0         11.0         11.	Sanaag	Eeerigavo						indicates missing data						
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	Wogooyi Galbeed	Baligubable	0.0	0.0	0.0	0.0	13.0							
	Wogooyi Galbeed	Berbera	0.0	0.0	0.0	0.0	1.0		on is available on	http://www	v.met.read	ding.ac.ul	k/tamsat/at	oout/



### Seasonal rainfall and Vegetation Cover trends by region

## Seasonal rainfall and Vegetation Cover trends for selected districts

