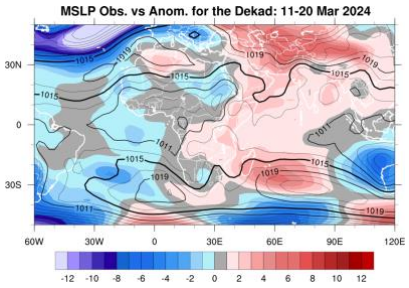
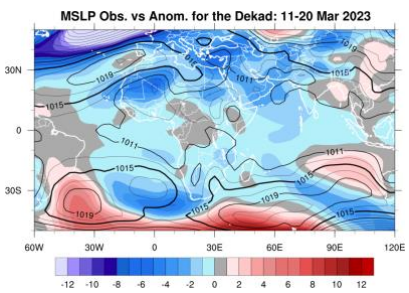
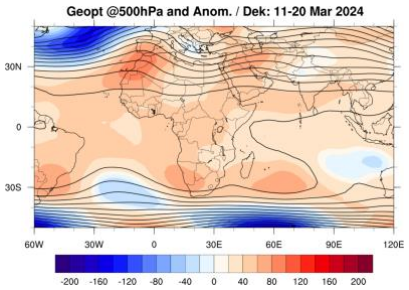
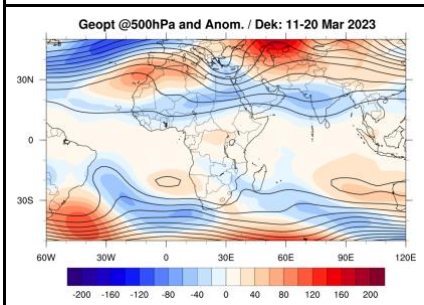
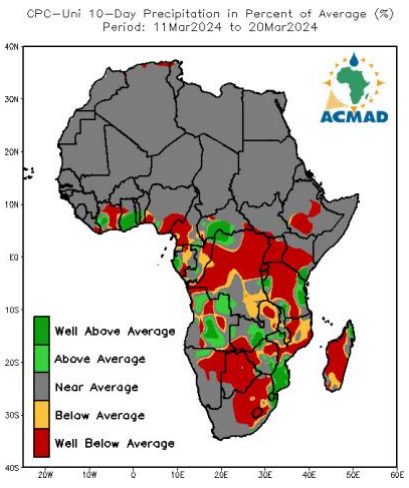
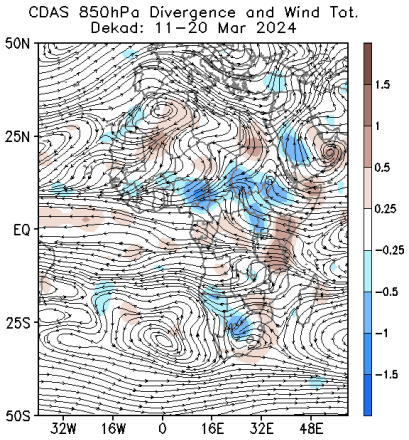
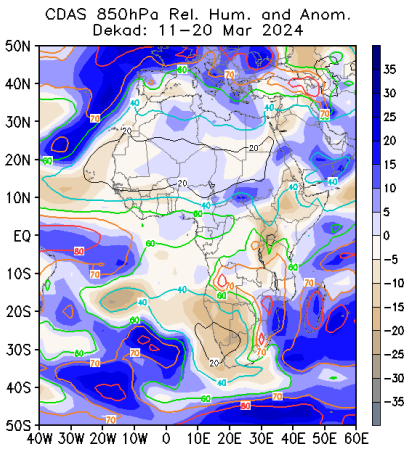
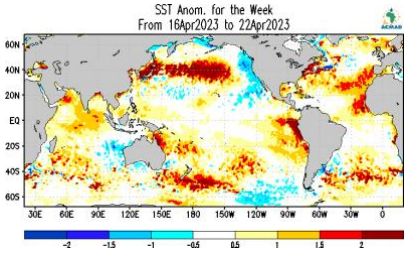
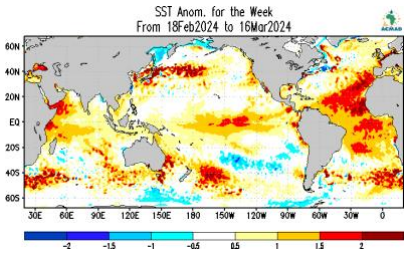
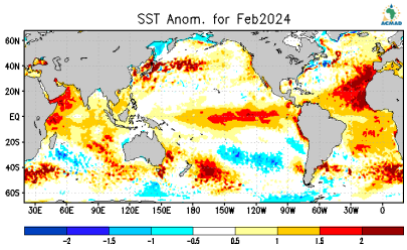
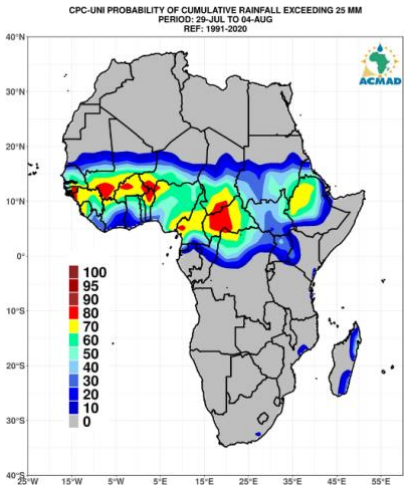
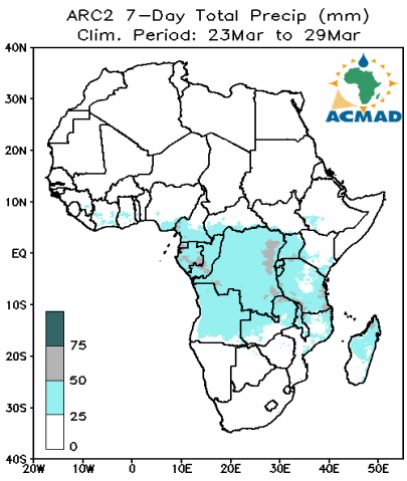
Scripts used to generate products for the 10-days Bulletin

Software involved: grads(.gs), NCL(.ncl) and R

Products	Description	Script filename, and dependencies
	**Observed Mean Sea Level Pressure (MSLP) during last dekad (Tot & Anom).** *This is a map of last dekad mean sea level pressure (contour) and anomalies (shaded) for the globe with respect to the 1991-2020 climatology* *Data Sources: NCEP, ERA5*	**Main script:** Script_MSLP_Dekadal_Bul.sh **Dependency (for plotting):** template_plot_mslp_for_decadal.ncl
	**Same as above, but for the same dekad one year ago**. *Data Sources: NCEP, ERA5*	
	**Observed 500 hPa Geopotential Height during last dekad (Total & Anomalies).** *This is a map of last dekad 500 hPa Geopotential Height (contour) and anomalies (shaded) for the globe with respect to the 1991-2020 climatology.* *Data Sources: NCEP, ERA5*	**Main script:** Script_GEOPT_Dekadal_Bul.sh **Dependency (for plotting):** template_plot_geopt_for_decadal.ncl
	**Same as above, but for the same dekad one year ago.** *Data Sources: NCEP, ERA5*	

	*Data Sources: ARC2, RFE2, CHIRPS, TAMSAT, CPC-Unified*	**Main script:** Script_GEOPT_Dekadal_Bul.sh **Dependency (for plotting):** template_plot_geopt_for_decadal.ncl
	**Observed Wind Anomaly (Div and Tot) at 850, 700 and 200 hPa.** *These products show wind divergence and total anomalies at 850, 700 and 200 hPa. They make it possible to: -examine the intensity of the West African monsoon at different levels. - to track the the position of Tropical EasterlyJet and Subtropical Jet - identify deep convective areas* *Data Sources: NCEP, ERA5*	**Main script:** Script_WND_Dekadal_Bul.sh **Dependency (for plotting):** template_plot_wind_for_decadal.gs src_file/color_cpt.gs src_file/xcbar_cpt.gs src_file/WMO_basemap.shp
	**Observed Relative Humidity Anomaly at 850 and 700 hPa.** *Last dekad observed Relative Humidity and anomalies at 850 and 700 hPa.* *Data Sources: NCEP, ERA5*	**Main script:** Script_RHUM_Dekadal_Bul.sh **Dependency (for plotting):** template_plot_rhum_for_decadal.gs src_file/color_cpt.gs src_file/xcbar_cpt.gs src_file/WMO_basemap.shp
	**Weekly SST Anomaly during the last four weeks.** *SST anomaly maps displaying the departures from average for the last 04 weeks* *Data Sources: OISST*	**Main script:** Script_plot_Weekly_SST.sh **Dependency (for plotting):** plot_weekly_sst_anom.gs src_file/acmad_sst_colors.gs

	**Last 04-weeks SST anomaly Assessment** *SST anomaly maps displaying the departures from average during the last 04-weeks.* *Data Sources: OISST*	src_file/xcbar_cpt.gs src_file/lpoly_mres.asc
	**Previous month SST anomaly Assessment** *SST anomaly maps displaying the departures from average during the previous month.* *Data Sources: OISST*	**Main script:** Script_plot_Monthly_SST.sh **Dependency (for plotting):** plot_monthly_sst_Anom.gs src_file/acmad_sst_colors.gs src_file/xcbar_cpt.gs src_file/lpoly_mres.asc
	Last 7, 10, 30, 60, 90, 180 days SST anomaly Assessment *SST anomaly maps displaying the departures from average during the defined periods* *Data Sources: OISST*	**Main script:** Script_plot_sst_Anom_rev.sh **Dependency (for plotting):** plot_sst_anom_rev.gs src_file/acmad_sst_colors.gs src_file/xcbar_cpt.gs src_file/lpoly_mres.asc
	**Frequency of occurrence of precipitation beyond 25, 50, 75 or 100mm during upcoming week 1 & 2** *The frequencies are computed over the climatological period i.e. 1991-2020.* *Data Sources: ARC2, RFE2, CHIRPS, TAMSAT, CPC-Unified*	**Main script:** Script_GEOPT_Dekadal_Bul.sh **Dependency (for plotting):** template_plot_geopt_for_decadal.ncl

	**Precip Climo for the upcoming week 1 , week 2, 10 days** *Total precipitation climo mean for the upcoming week 1, week2 and 10-days* *Data Sources: ARC2, RFE2, CHIRPS, TAMSAT, CPC-Unified*	**Main script:** run_precip_climo_plot_next_days.sh **Dependency (for plotting):** src_file/template_climo_cpcuni.gs src_file/template_climo_arc2.gs src_file/acmad_RR_colors.gs src_file/AFR_adm2.shp src_file/AFR_adm1.shp