

Weather briefing chat

8th Oct, 12 UTC



by Sarah Kimani, IMTR, Nairobi

Sarah: I will give a brief overview of the weather and finally give a breakdown of the forecast, thereafter, the stage will be open for comments and discussions



Sarah: to begin with, slide 2 is the African map to show you where Kenya is located as this is our region of interest

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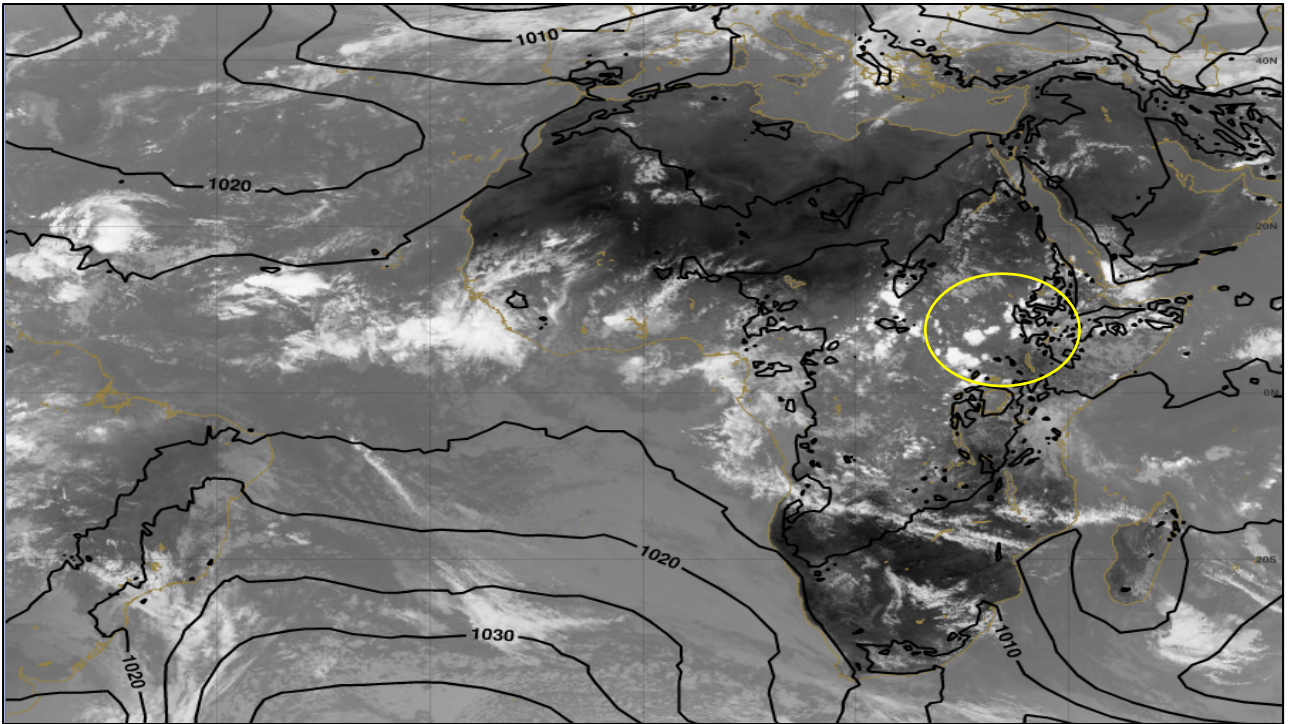
Comparison of past weather

- Slide 4: IR 10.8 image for 2014/10/07 at 12UTC
- Slide 5: IR 10.8 image for 2014/10/07 at 18UTC
- Slide 6: Severe convection RGB for 2014/10/07 at 09UTC
- Slide 7: Severe convection RGB for 2014/10/07 at 12UTC

Prognosis

- Slide 8: IR 10.8 image for 2014/10/08 at 00UTC
- Slide 9: IR 10.8 for 2014/10/08 at 06UTC
- Slide 10: Animation for RH at 700hpa from 00UTC 2014/10/08
- Slide 11: Animation for 850hpa winds from 06UTC 2014/10/08
- Slide 12: Animation for 700 hpa winds from 06UTC, 2014/10/08
- Slide 13: Severe convection RGB at 09UTC 2014/10/08

Sarah: The 3rd slide is a summary of what is in each slide and this will guide you as we move on



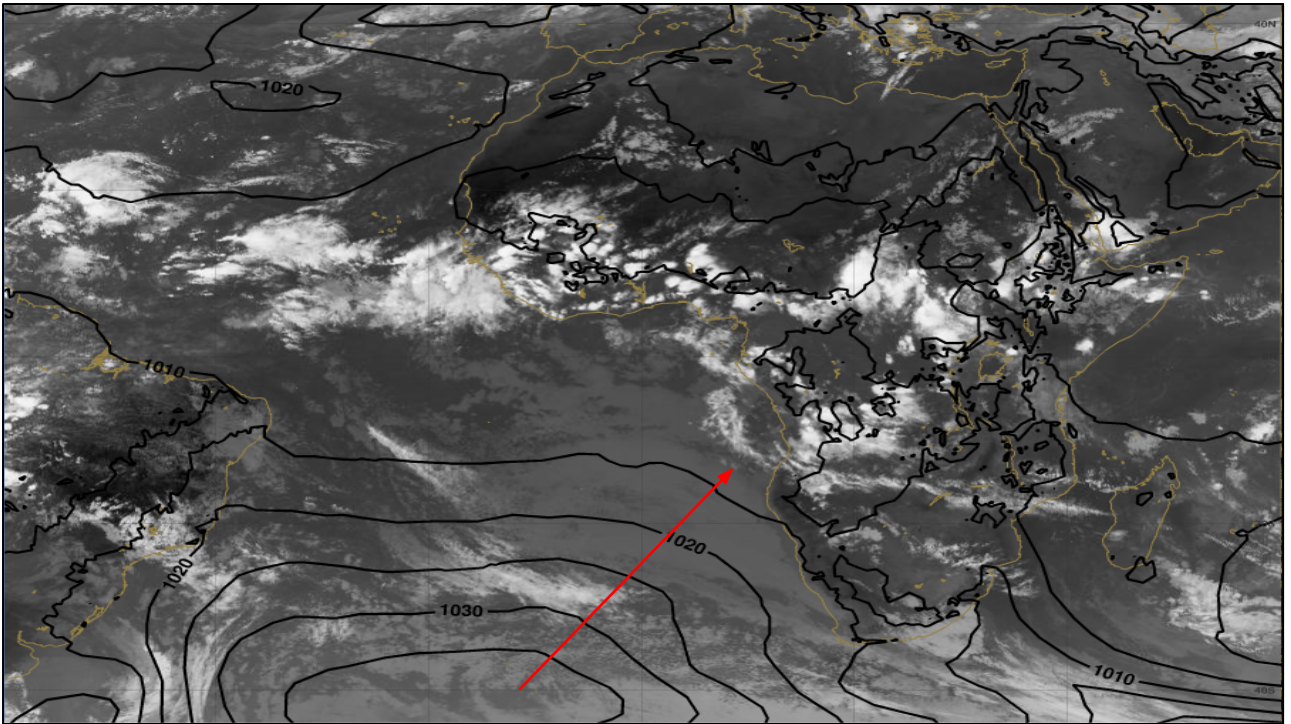
IR 10.8 (2014/10/07 at 12UTC)

Sarah: On slide 4, we have the IR 10.8 image for yesterday at 12UTC which shows that we had strong pressure system in the SW (St. Helena) which was pushing the meridional arm of the ITCZ over our region

Sarah: The pressure systems on the SE (Mascarene high) has it's center further east and thus does not retaliate on the push of the meridional arm

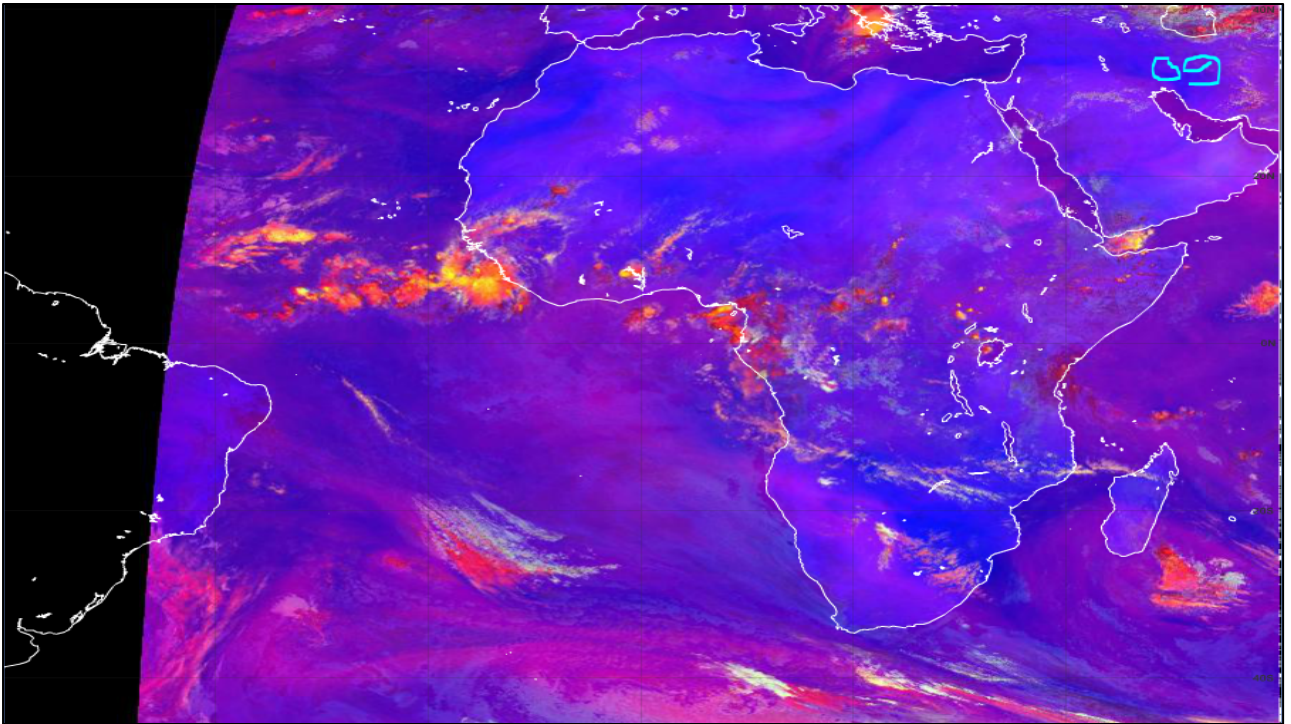
Sarah: The circled region is over Sudan and Ethiopia where we see we had Cbs

Sarah: The pressures in the North (Azores and Arabian ridge) are not as strong and thus did not 'squeeze' the ITCZ (Diffuse ITCZ)



IR 10.8 (2014/10/07 at 18UTC)

Sarah: It's IR for 18UTC yesterday where we see as compared to the 12UTC we have a maintenance of the position of the ITCZ and was still diffuse though we had more cbs
Izolda: diffuse-you mean expanded, don't you? - Yes



Severe convection RGB 2014/10/07 at 09UTC

Sarah: Still looking at the past weather, let's compare the severe convection RGB for yesterday at 09 and 12 UTC, that is slide 6 and 7

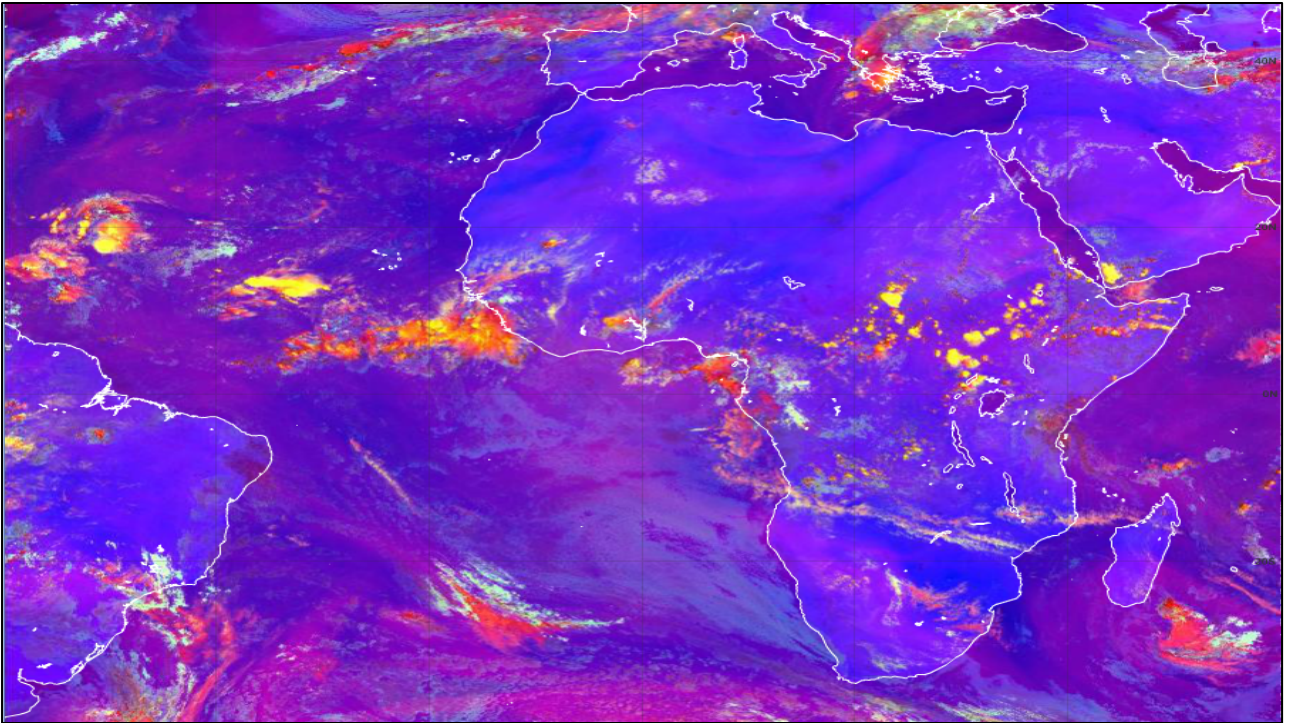
Sarah: Slide 6 and 7 highlights clearly the development of the Cbs over North of Kenya and West of Kenya

Philip: and what about coast on slide 6 and 7

Thanks Phillip, in slide 6 and 7, we saw we had a bit of clouds forming and this is attributed to the moisture fetch from the Indian ocean

Wilfried: Slides 6, 7, 13: Bright yellow spots (strong updraft) show intense convection with high potential to intensify.

As bigger the bright yellow area becomes as older is the corresponding cell. The RGB "severe convection" is excellent for nowcasting.



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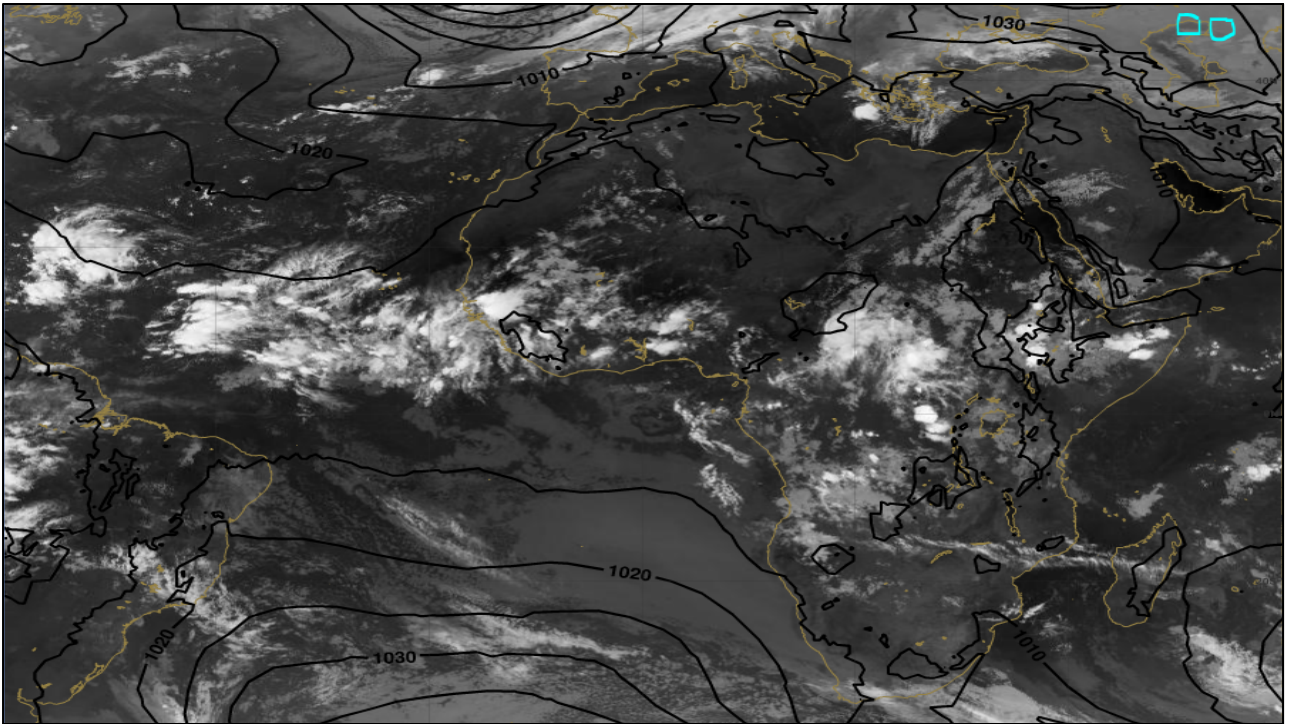
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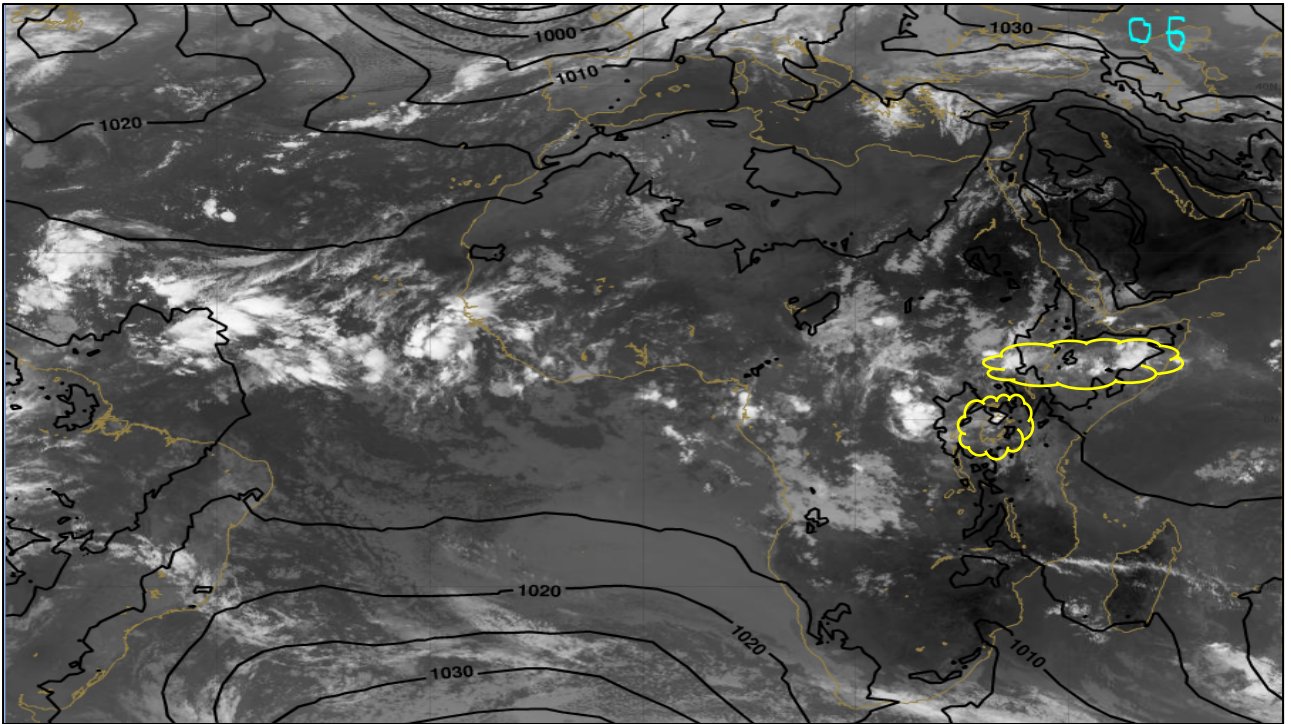


IR 10.8 (2014/10/08 at 00UTC)

slide 8 shows the MSLP and the IR at 00Z today

Sarah: We see St. Helena high's ridging has relaxed and the pressures in the North have maintained

Sarah: This allows for the system above North of Kenya to move further South into our region



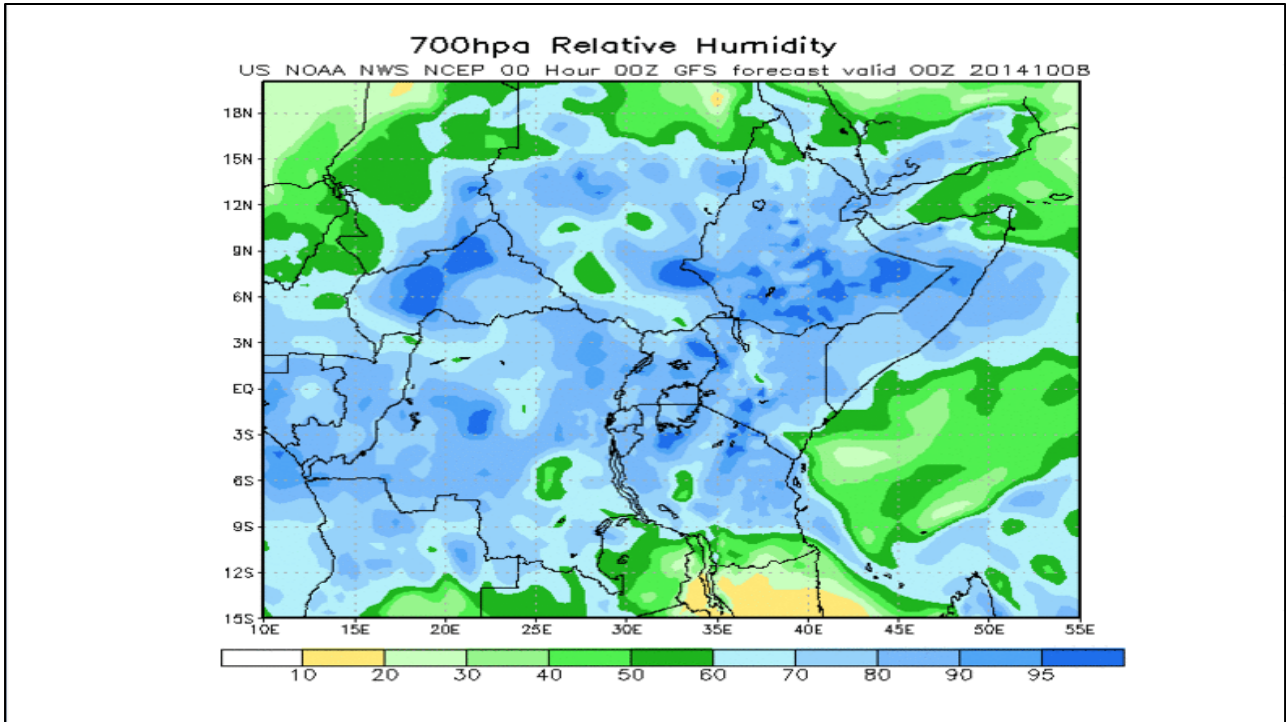
IR 10.8 (2014/10/08 at 06UTC)

Sarah: In slide 9, we do not see much difference from slide 8, highlighted are the systems that we expect to have an effect on our region

Sarah: these are the Western and Northern parts of Kenya

Philip: The St Helena Pressure is still 1020 mb only the center of control has moved further south

Sarah: When the centers of the south pressures decrease and we have a maintenance of the North pressures, we expect the highlighted system in slide 9 on the north to move south to our region

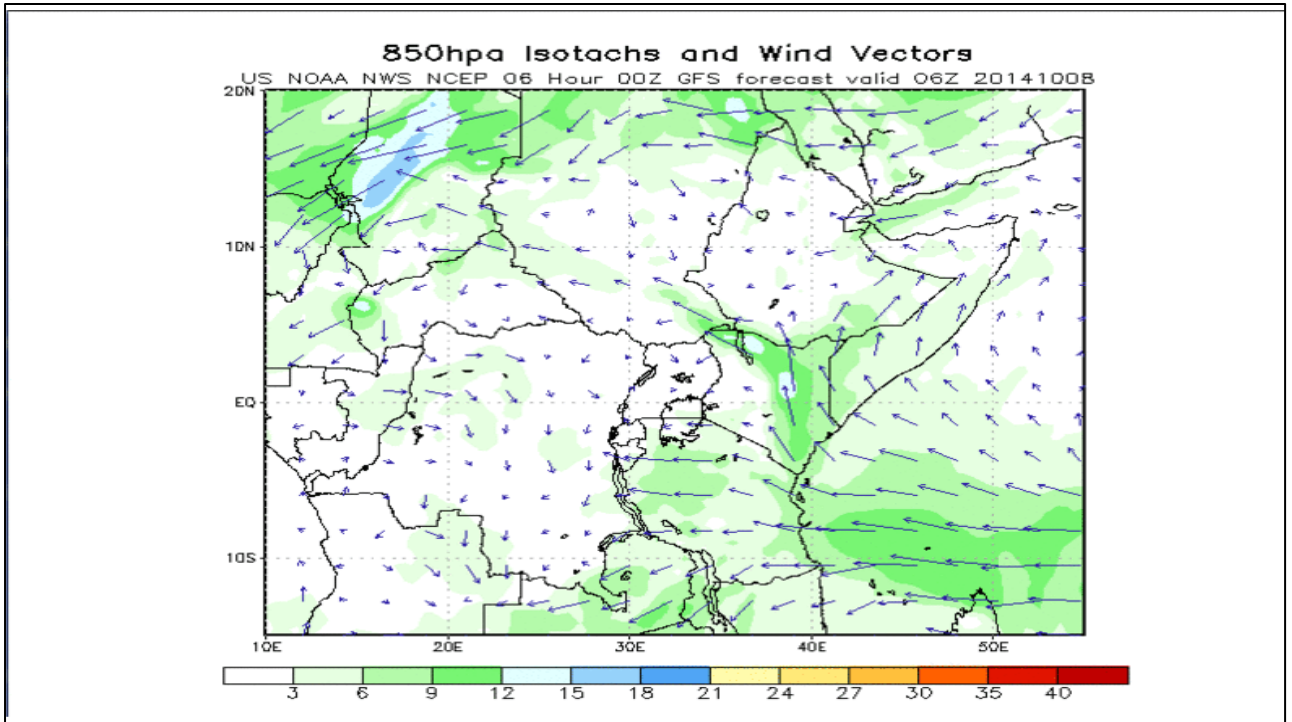


Animation RH at 700hpa

Sarah: Slide 10 we have the RH animation at 700 hpa from 00UTC 8th to 00UTC 9th

Sarah: As we can see, over the coastal region with time, we have moisture less than 60%

Sarah: however, as you move further inland, we have a forecast of over 60% in humidity



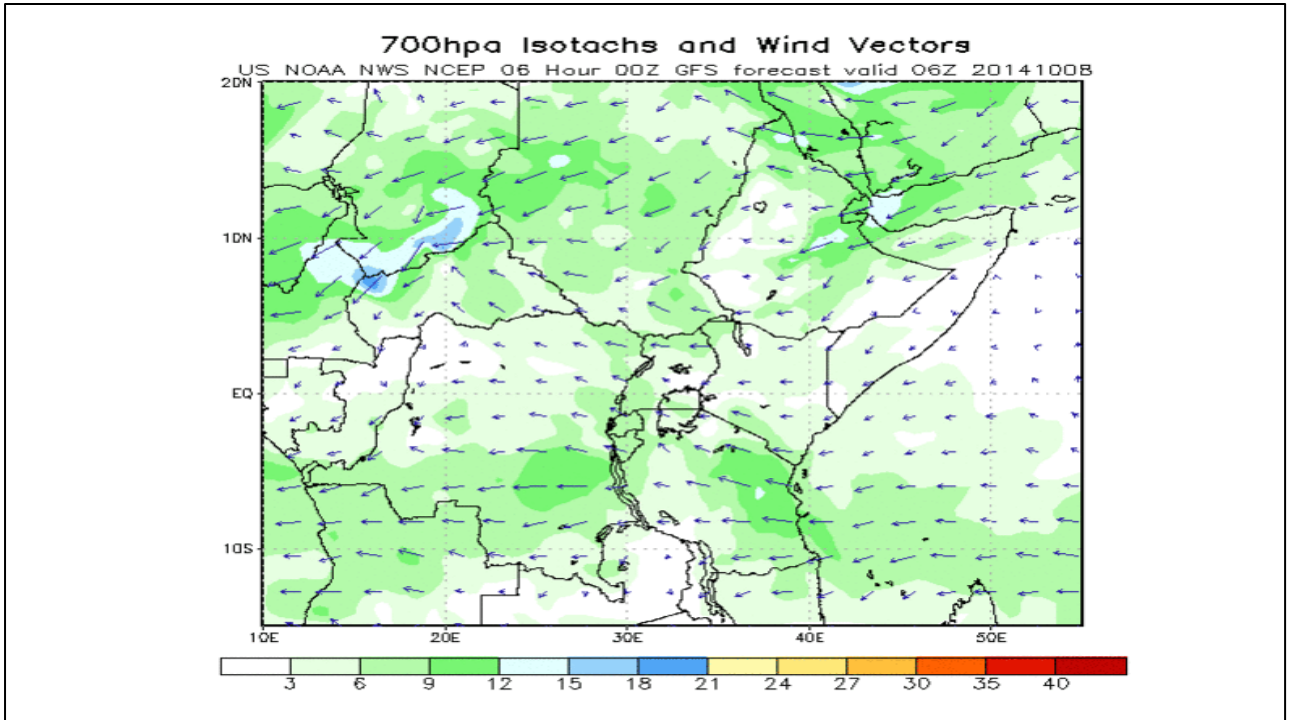
850hpa winds

said: wind on 850 show clearly pressure system movement

Sarah: Slide No. 11 is an animation of the 850hpa winds...here we look at regions of convergence

Izolda: especially over Viktoria lake

Sarah: We can see convergence over Western parts of the country while the rest of the country we have mainly South easterlies dominating the eastern part of the country



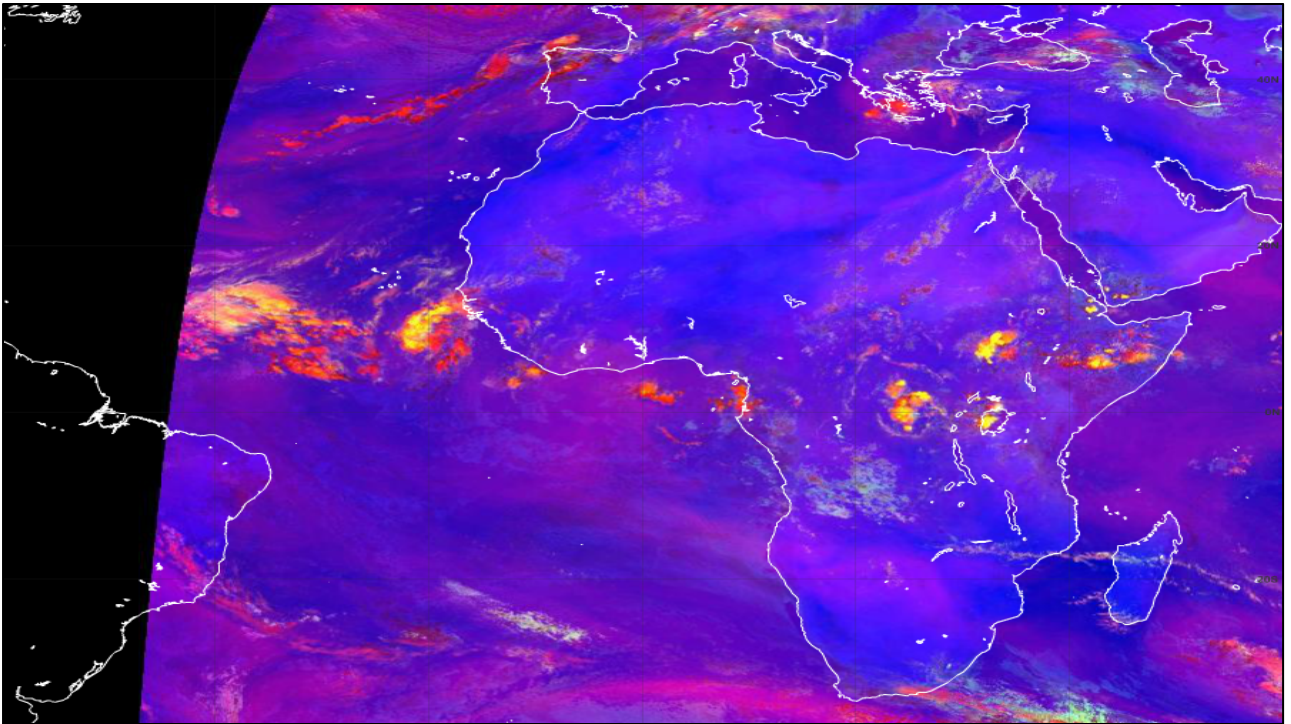
Animation for 700 hpa winds from 06UTC, 2014/10/08

Sarah: Moving on to slide 12... shows winds at 700hpa.... here we concentrate on the moisture fetch

Sarah: as we can see, from the Indian ocean we have very strong easterlies entering the country from the SE

Sarah: The strength of the wind does not allow for moisture deposit from the ocean but instead this benefits the rest of the country as the winds become less strong depositing moisture

Izolda: the upmotion of wet and warm air in the convergency zone-good conditions for convection.



Severe convection RGB at 09UTC 2014/10/08

Wilfried: Slides 6, 7, 13: Bright yellow spots (strong updraft) show intense convection with high potential to intensify. As bigger the bright yellow area becomes as older is the corresponding cell. The RGB "severe convection" is excellent for nowcasting.

Sarah: It shows the severe convection RGB at 09 today, here I wanted you to have a look at the active systems earlier discussed in the North and West of Kenya

Forecast

North West: Showers and thunderstorms over few places

North East: Cloudy conditions tonight

Western and environs: Showers and thunderstorms over few places

Central and highlands east of Rift Valley: Showers and thunderstorms over few places

South East lowlands: Partly cloudy conditions

Coastal region: partly cloudy conditions

Usama: over Victoria lake and south west of the country will have sever weather with convective clouds, as the time proceed

Usama: but with respect to north of the country we have only shower over separte regions

simon: I agree with you Sarah for NW since there was convergence in Sudan and the pressures in south have weakend, hence convection from Sudan will come southwards

simon: I also concur about the West since the lake will add on the moisture already deposited.

Sarah: I will verify the weather forecast tomorrow morning by posting it in the briefing forum for your comments