



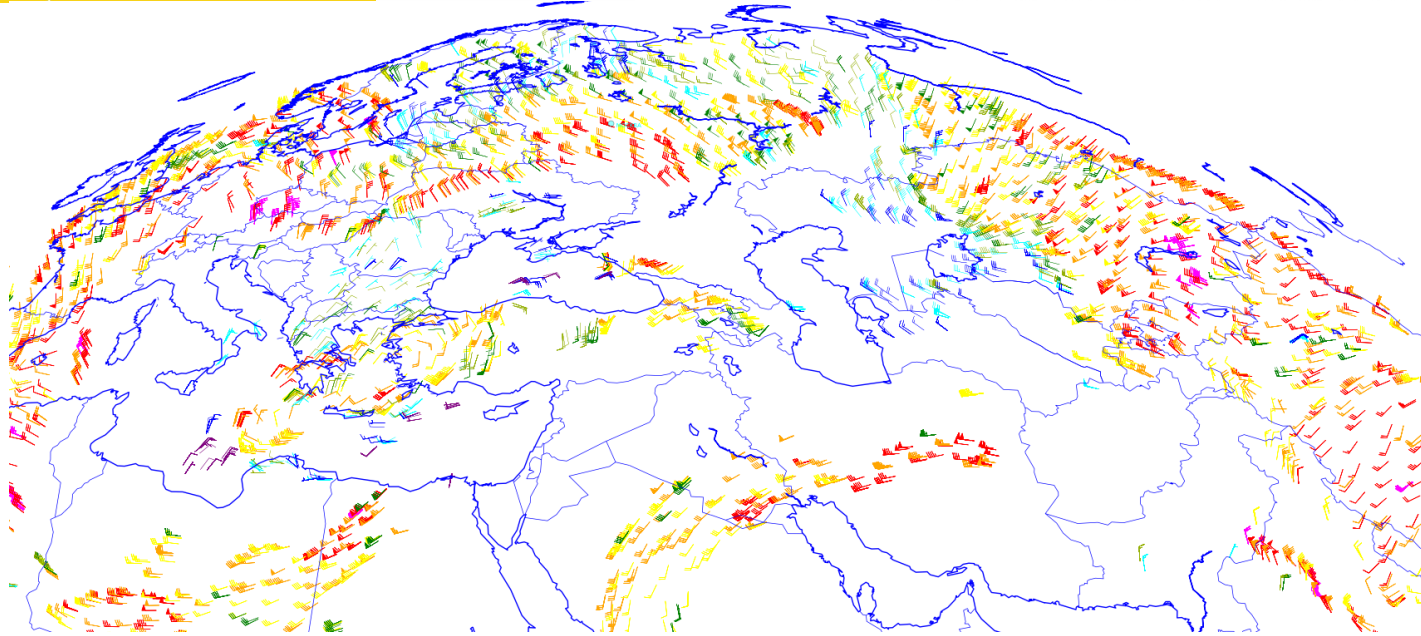
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Nowcasting SAF Exercises

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Roshydromet Training Event

Exercise

- Exercise examples based on data from the **IODC** (Indian Ocean) MSG-1 satellite
- Date: **29.05.2017**
- Hour: close to **12Z**
- Products available in ftp://nwcsaf.org/Roshydromet_2017
- **Zoom in** by pressing <CTRL> and +
- **Zoom out** by pressing <CTRL> and -

Exercise 1: CRR + RDT

- Look at the **precipitation intensity** estimations at **12Z** close to **Moscow**
figIndian/CRR/crr_intensity_S_NWC_CRR_MSG1_India-VISIR_20170529T120000Z.png
- Look also at the **RDT** product at 12Z close to **Moscow** figIndian/RDT/RDT-CW_S_NWC_RDT-CW_MSG1_India-VISIR_20170529T120000Z.png
- **What kind of situation is it?**

Exercise 2: RDT

- Look also at the **RDT** product at 12Z close to **Moscow** figIndian/RDT/RDT-CW_S_NWC_RDT-CW_MSG1_India-VISIR_20170529T120000Z.png
- Can you see **convective cells** close to **Moscow**?
- Are they **severe**? Anything **special**?
- How will they **evolve**?
- **Where** will they go?

Exercise 3: iSHAI

- Look at the **humidity at the boundary layer difference** with respect to ECMWF product at 12Z close to **Moscow**
figIndian/iSHAI/ishai_diffbl_S_NWC_iSHAI_MSG1_India-VISIR_20170529T120000Z.png
- Is this product useful close to **Moscow** at **12Z**?
- **Why?**
- Can you **spot** a region on the globe where **ECMWF** has **underestimated** the humidity at lower levels?

Exercise 4: HRW

- Look at the **HRW** winds close to Moscow at 12Z
figIndian/HRW/S_NWC_HRW_MSG1_India-
BS_20170529T120000Z.png
- How are the **winds** close to **Moscow** at **12Z**?
- Can you say anything about the **surface winds**
close to **Moscow** at **12Z**?
- **Why**?
- Can you **spot** a region on the globe where **low level**
winds are shown?

Exercise 5: Clouds

- Look at the **Cloud Top Height** product close to Moscow at 12Z
figIndian/CTTH/ctth_alti_S_NWC_CTTH_MSG1_India-VISIR_20170529T120000Z.png
- How high are the **cloud tops** close to **Moscow** at **12Z**?
- **Why**?
- How **certain** are you about this height?

Exercise 6: Dust

- Look at the **dust product** product over the globe at 12Z
figIndian/CMA/cma_dust_S_NWC_CMA_MSG1_India-VISIR_20170529T120000Z.png
- Do you see any **regions** where there might be **dust**?
- Would you say it is dust with **100% certainty**?

Exercise 7: ASII-NG

- Look at the **tropopause folding** product over the globe at 12Z
figIndian/ASII/asii_turb_trop_prob_S_NWC_ASII-NG_MSG1_India-VISIR_20170529T120000Z.png
- Do you think there can be **turbulence** at tropopause levels close to **Moscow**?
- **Why**?
- Can you spot a region on the globe where there might be **turbulence** at tropopause levels which is an **airline flight path**?

Summary

- NWC SAF Products are useful for **Nowcasting** and other applications
- Users can run the **software** on their computer and tailor it to their needs
- **Helpdesk** available to users with very quick response time
- More information at **nwc-saf.eumetsat.int**