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The Regional Training Workshop on Sand and Dust Storms in the Arab Region “SDS-ARAB”

Cairo, Egypt, 10-12 February 2018

AGENDA

Day 1 – Saturday, 10 February 2018

9:00-9:30 Registration of participants at the Training Centre of the Egyptian Meteorological Authority

9:30-10:15 Opening Statements

Moderator: *Mr. Ashraf Zakey, Head of the Central Department for Research and Climate, Egyptian Meteorological Authority, Ministry of Civil Aviation, Egypt*

- Mr. Ahmed Abd Elaal Mohamed, Chairman, Board of Directors, Egyptian Meteorological Authority, Ministry of Civil Aviation, Egypt
- Mr. Ashraf Shalaby, Regional Coordinator for Climate Change and Meteorology, Environment, Housing and Sustainable Development Department, Economic Sector, League of Arab States, Egypt
- Mr. Hesham Abdelghany, WMO Representative for West Asia, World Meteorological Organization (WMO), Bahrain
- Mr. Tarek Sadek, Water Resources and Climate Change Officer, Water Resources Section, Sustainable Development Policies Division, Economic and Social Commission for Western Asia (ESCWA), United Nations, Lebanon
- Mr. Abdul-Majeid Haddad, Regional Climate Change Coordinator, UN Environment West Asia Office, Bahrain

Introduction of participants

Overview of the Workshop Agenda

- *Mr. Hesham Abdelghany, WMO*

10:15-10:45 Coffee Break

Session I	Perspectives to Sand and Dust storms
	Chair: Mr. Ahmed Abd Elaal Mohamed, Chairman, Board of Directors, Egyptian Meteorological Authority, Ministry of Civil Aviation, Egypt
10:45-11:15	WMO SDS-WAS program overview <ul style="list-style-type: none"> - <i>Mr. Alexander Baklanov, Scientific Officer, Research Department, World Meteorological Organization (WMO), Geneva, Switzerland</i>
11:15-11:45	Long term projection of climate extreme indices associated with sand and dust storms in the Arab Region <ul style="list-style-type: none"> - <i>Mr. Tarek Sadek, ESCWA</i>
11:45-12:15	Analytical approaches to identify sources of sand and dust storms and their combat <ul style="list-style-type: none"> - <i>Mr. Abdul-Majeid Haddad, UN Environment</i>
12:15-12:45	Policy advocacy framework for sand and dust storms <ul style="list-style-type: none"> - <i>Mr. Utchang Kang, Programme Officer, United Nation Convention to Combat Desertification (UNCCD), Bonn, Germany</i>
12:45-13:15	Dust modelling over the Arab region: From emission to mitigation <ul style="list-style-type: none"> - <i>Mr. Ashraf Zakey, Egyptian Meteorological Authority, Egypt</i>
13:15-14:15	Lunch Break
Session II	Understanding Dust Cycles
14:15-15:15	Dust Cycle <ul style="list-style-type: none"> • Atmospheric aerosol • The dust cycle: <ol style="list-style-type: none"> a) Dust emission, b) Dust transport and c) Dust deposition - <i>Mr. Enric Terradellas, Chair of the WMO SDS-WAS Steering Committee, State Meteorological Agency of Spain (AEMET), Barcelona, Spain</i>
15:15-15:45	Coffee Break
15:45-17:00	Dust Cycle <ul style="list-style-type: none"> • Dust impacts • Introduction to dust observation • Introduction to dust prediction - <i>Mr. Enric Terradellas, AEMET, Spain</i>
17:00	End of Day 1

Day 2 – Sunday, 11 February 2018

Session III Ground Observations of Dust

- 9:00-10:30 Ground Observations of Dust
- *Mr. Sergio Rodriguez, Izaña Atmospheric Research Centre, State Meteorological Agency of Spain AEMET, Canary Islands, Spain*
- 10:30-11:00 Coffee Break
- 11:00-12:30 Ground Observations of Dust (Cont'd)
- *Mr. Sergio Rodriguez, AEMET, Spain*
- 12:30-13:30 Lunch Break
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Session IV Satellite Observations of Dust

- 13:30-15:00 Satellite observation of dust
- Principles of dust detection in satellite imagery
 - *Mr. José Prieto-Fernandez, Training Officer, European Organization for Exploitation of Meteorological Satellites (EUMETSAT), Darmstadt, Germany*
- 15:00-15:30 Coffee Break
- 15:30-17:00 Satellite observation of dust
- Exercises on dust concentration and height
 - *Mr. José Prieto-Fernandez, EUMETSAT, Germany*
- 17:00 End of Day 2
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Day 3 – Monday, 12 February 2018

Session V Dust Prediction

- 9:00-10:30 Dust Prediction
- Dust cycle and its associated processes
 - Basic concepts on dust modelling
 - *Ms. Sara Basart, Postdoctoral Researcher, Earth Sciences Department, Barcelona Supercomputing Center (BSC), Barcelona, Spain*
- 10:30-11:00 Coffee Break
- 11:00-12:30 Dust prediction (Cont'd)
- Examples of dust forecast
 - *Ms. Sara Basart, BSC, Barcelona, Spain*
- 12:30-13:30 SDS-WAS products

- *Mr. Enric Terradellas, AEMET, Spain*

13:30-14:30	Lunch Break
Session VI	Conclusions and Closing Session
	Moderator: Mr. Hesham Abdelghany, WMO
14:30-15:30	Discussion with participants on the way forward to strengthen the capacity of Arab region on dust monitoring and prediction
15:30-16:00	Closing Session (quick feedback from the participants and closing remarks by PR of Egypt to WMO)
16:00-16:30	Coffee Break
16:30-18:00	Meeting of the participating organizations/institutions to coordinate SDS activities at regional level and how to respond to the regional needs related to SDS
18:00	End of Workshop
