



Department of Environment

# Islamic Republic of Iran Department of Environment

## *Efforts to control Sand and Dust Storm in Iran*

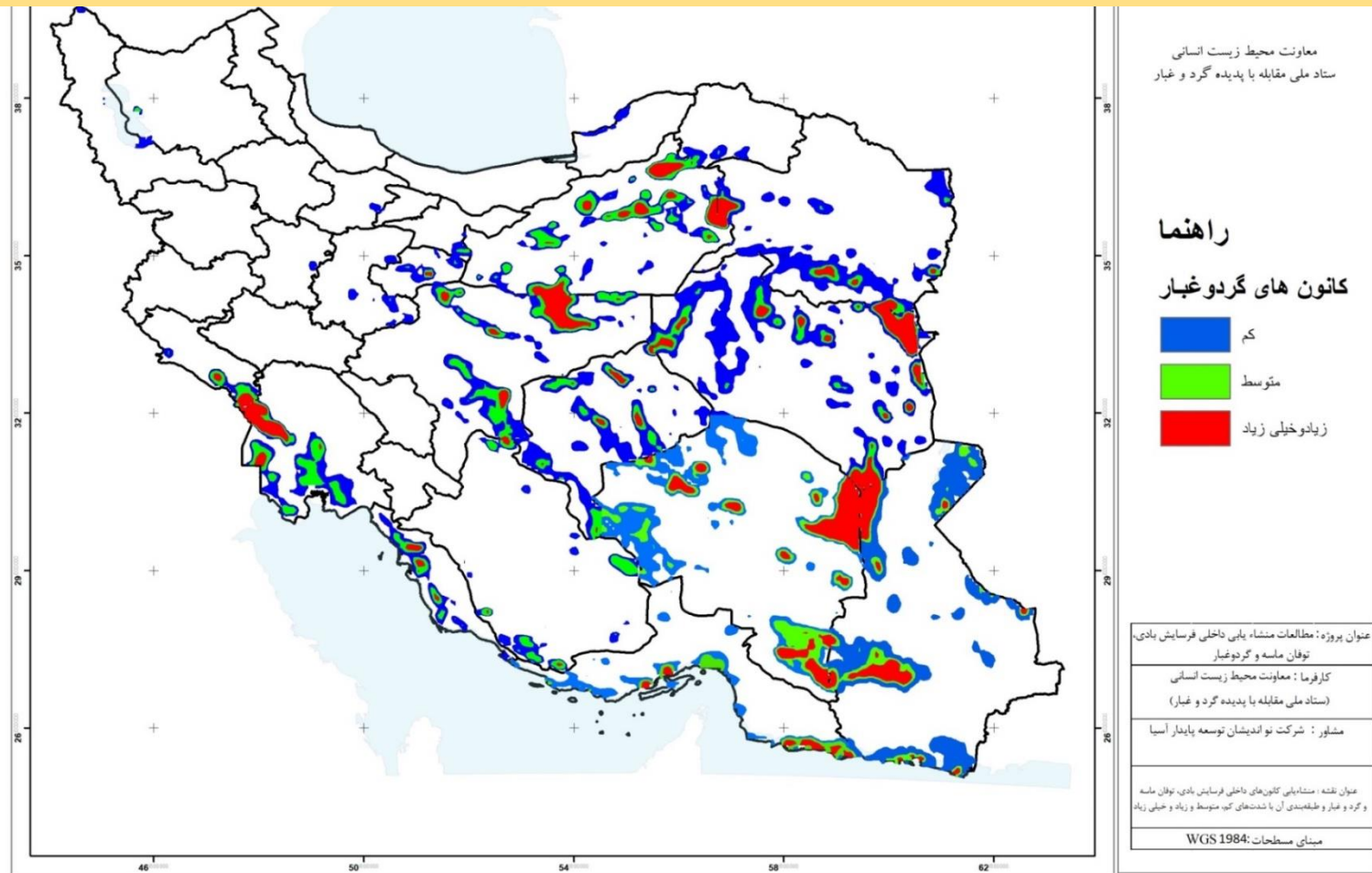


## A. Major National Activities

- ✓ Establishment of the **National and Provincial SDS Management Committees**
- ✓ Identification of **Dust Sources** in the country
- ✓ Assessment of **environmental and economical damages** of dust storms in 6 of provinces.
- ✓ Preparation of **national action plan** to combat SDS.
- ✓ Preparation of a **national adaptation plan** to combat SDS.
- ✓ Allocating over 400 million Euro over the past 5 years and implementation of **dust management measures** in 25 provinces (2017 to 2020)

# *Dust in Iran*

According to dust origin identification study in the country in 2018, about 34.6 million hectares of the lands in Iran (21% of total area) are origins of dust with various intensities and these areas have the potential to produce more than about 4.2 million tons of dust per year



**Distribution of SDS Hot points in Iran, with Low, Moderate and High intensity (2018)**

# Measures to prevent and control SDS in Iran (2017 to 2020)

Description of Measures	Unit	2017	2018	2019	2020	Total	Total of Measures
Plantation	Hectares	23135	12520	45099	3500	84254	2,106,055
Vegetation cover intensification		9915	19260	47812	79207	156194	
Mulching		12801	8020	5692	0	26513	
Grazing management		39500	224000	1132840	343750	1740090	
Sustainable water resource management		11711	5000	71019	5760	93490	
Construction of living and non-living windbreaks		199	0	2800	0	2999	
Construction of sediment traps		0	0	2515	0	2515	
Revitalization of dried wetlands by providing and allocation water resources and support and promotion of conservative agricultural practices	Cubic meters	0	0	124053	0	124053	124053
Establishment and equipment of SDS monitoring stations	Number	104	14	55	15	188	188



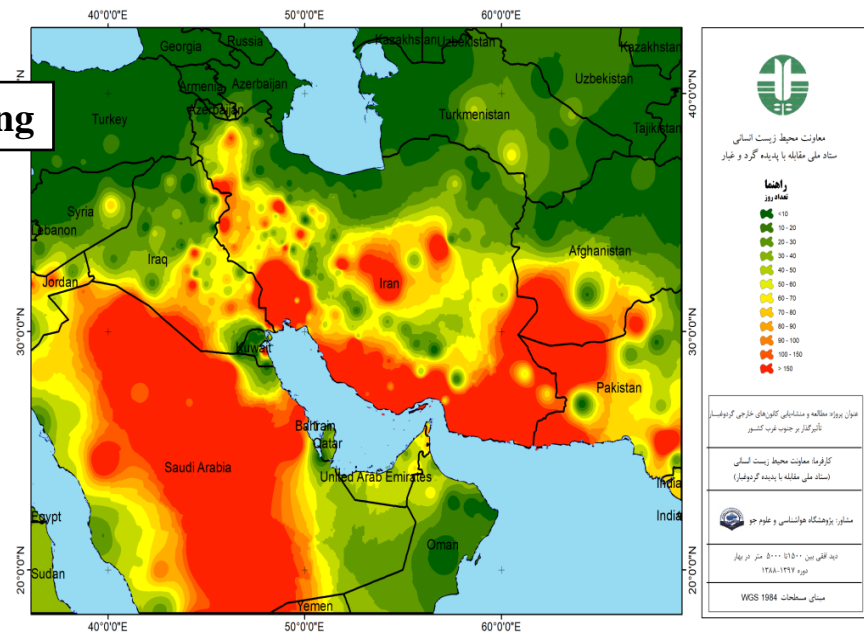
# C. Dust Control Measures:



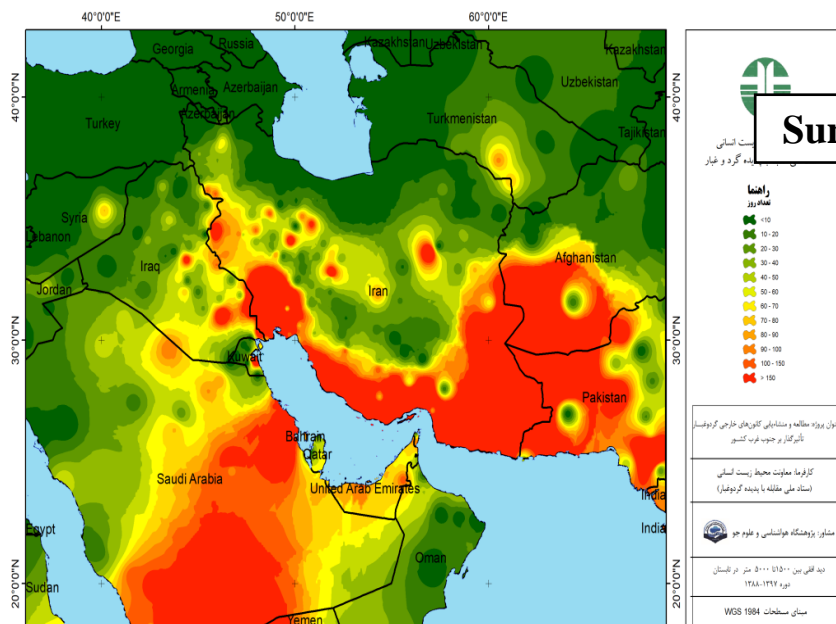
# Identification of the regional dust sources

Average Seasonal Number of days with dust storm **minimum visibility** between 1500-5000 meter for 15 years period (2009-2018)

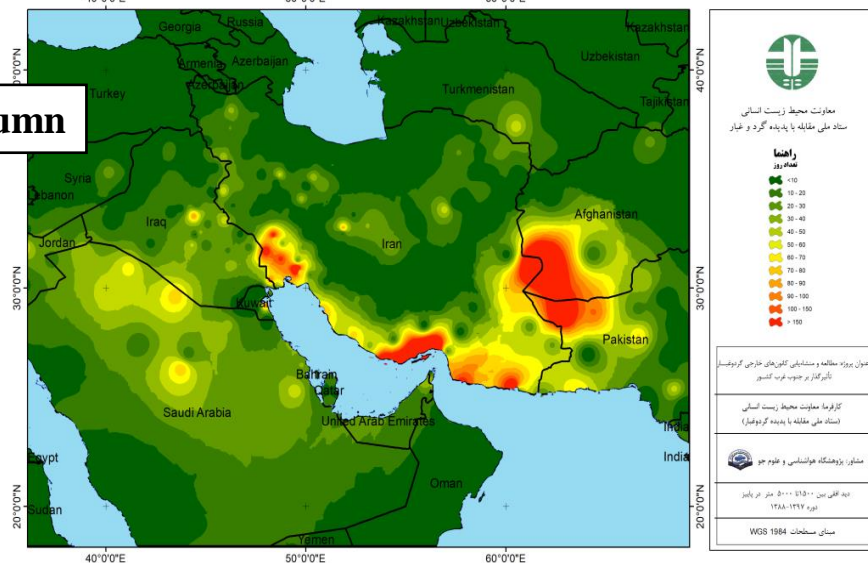
Spring



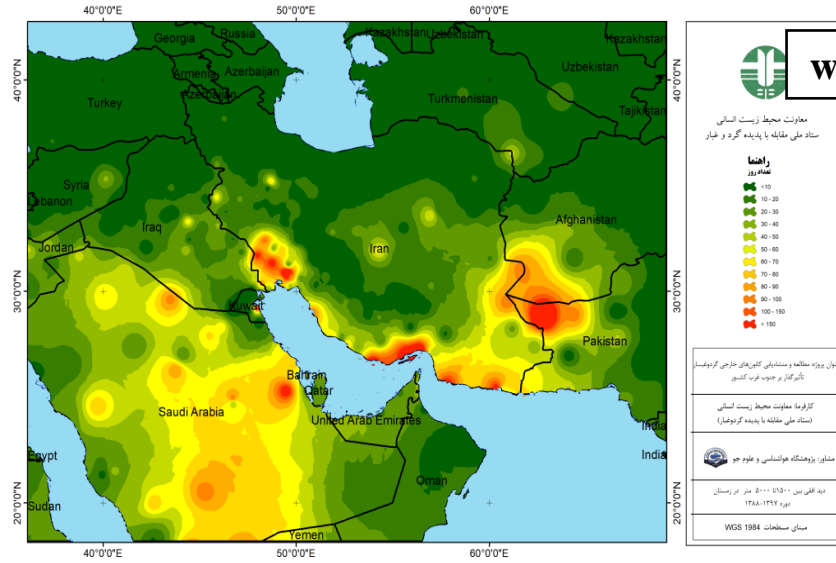
Summer



Autumn



winter



# *Activities and Planned Programmes on Sand and Dust Storm in Iran by NCCS*

## **B. Regional and International Activities**

1. Collaboration with international institutions and organizations, including UNDP, UNEP, UNCCD, ESCAP and the European Union.
2. Participation in dust-related meetings and conferences, including consultations with ESCAP (APDIM), the Ministry of Environment of Japan, Austria and Germany, and the Gansu Institute of China.
3. Exchange of bilateral and multilateral agreements The neighboring countries



# Brief History of Iran Agreements Regarding SDS

Title	Date	Place	Major Provisions	Signatory Authorities
<b>Memorandum of Understanding (MOU)</b>	26 January 2008	Tehran	8 Paragraphs, Environment and Sustainable Development, a joint committee, workshops.	Iran & Iraq (Ministers)
<b>MOU</b>	5 July 2009	Baghdad	6 Articles, sources of dust, new technologies on dust, dust monitoring, training, holding meetings in Baghdad, international cooperation.	Iran & Iraq (Ministers)
<b>Summary Minutes of Negotiations</b>	18 November 2009	Tehran	Harmful effects of dust, field visit in Iraq, create a dust monitoring network in Iraq, providing information, air monitoring in the area.	Iran & Iraq (Deputies)
<b>Ministerial Statement Ankara</b>	1 May 2010	Ankara	Establishment of a joint working group, prepared 2-year Plan, exchange of experiences in the field of environment, weather, dust, air quality management, desertification.	Iran, Iraq, Turkey, Syria (Ministers)
<b>Track Record of Implementing Agreements on Combating Dust</b>	6 August 2010	Tehran	13 Articles, an operating appendix, dispatch of experts, preparing of credit, training and assisting the Iraqi Meteorological promotion, health management, project shared views on global, regional and sub-regional meetings.	Iran & Iraq (Deputies)
<b>Regional Action Plan</b>	29 September 2010	Tehran	10 Articles and appendices, environment and weather and dust, air quality management, desertification and implementation of the action plan.	Iran, Iraq, Turkey, Syria (Ministers)
<b>Bilateral Action Plan</b>	8 June 2011	Tehran	10 Articles, an area of 1 million hectares set for desertification operations over 5 years, jointly invested by the private sector, 400-hectare pilot plant operations in Iraq, efforts to reduce the effects of dust, transfer of experiences in the field of desertification and afforestation in Iraq.	Iran & Iraq (Ministers)
<b>Bilateral Action Plan</b>	7 May 2011	Baghdad	10 articles and an appendix on operations, began operations in Iraq desertification.	Iran & Iraq (Deputies)
<b>Executive Document Against Desertification</b>	17 June 2011	Ahwaz	7,000 hectares of land desertification began operations in seven provinces in Iraq;	Iran & Iraq (Deputies)
<b>Tehran Ministerial Declaration</b>	3-5 July 2017	Tehran	For enhance cooperation and coordination at global, regional and local levels to address the causes and SDS, observe and forecast, mitigate and cope with the adverse effects of SDS, seek technical and financial support from the relevant UN organizations, Consider to further develop policy dialogue on responding to the issues of SDS, develop human and	



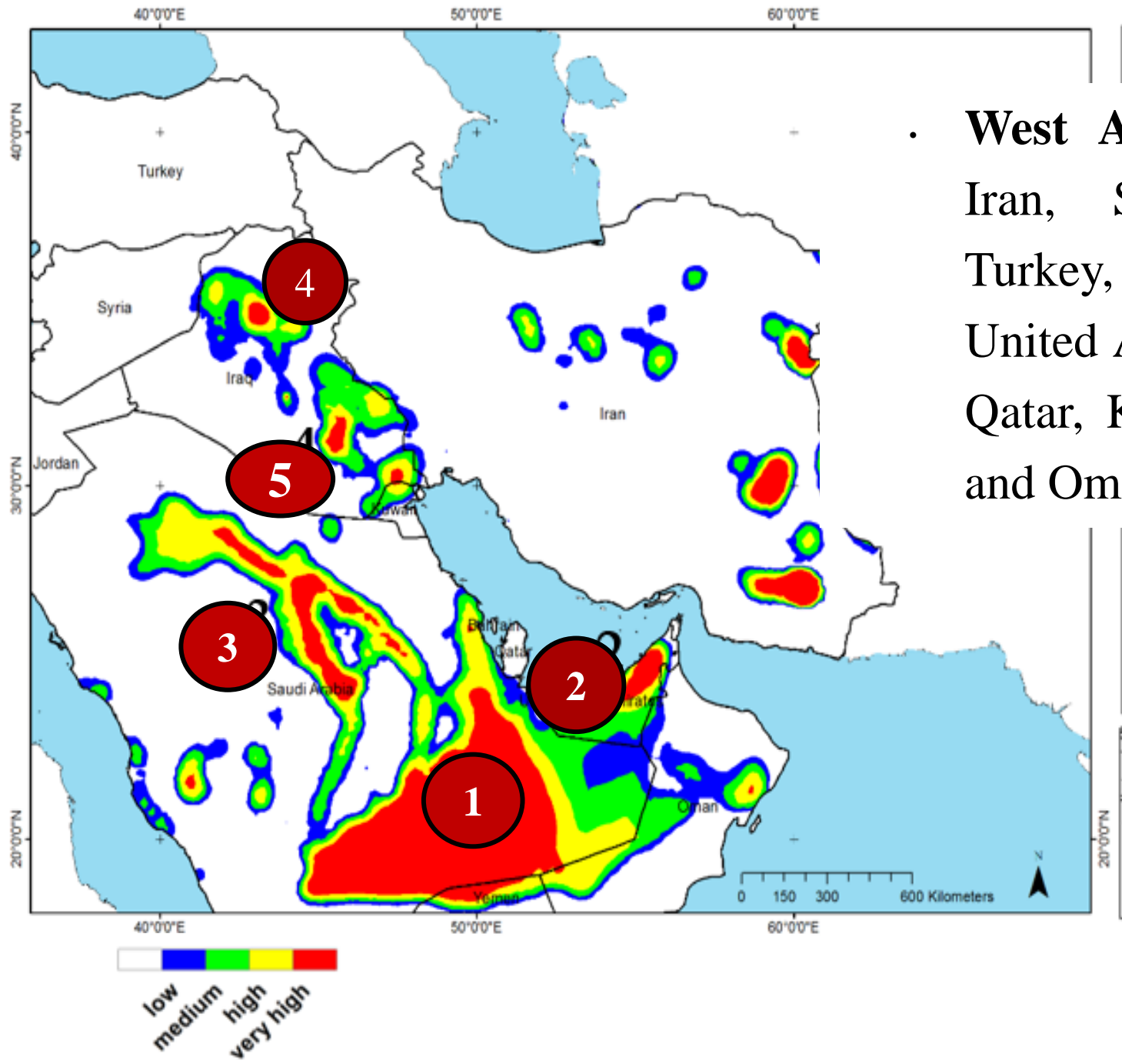
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## **B. Regional and International Activities**

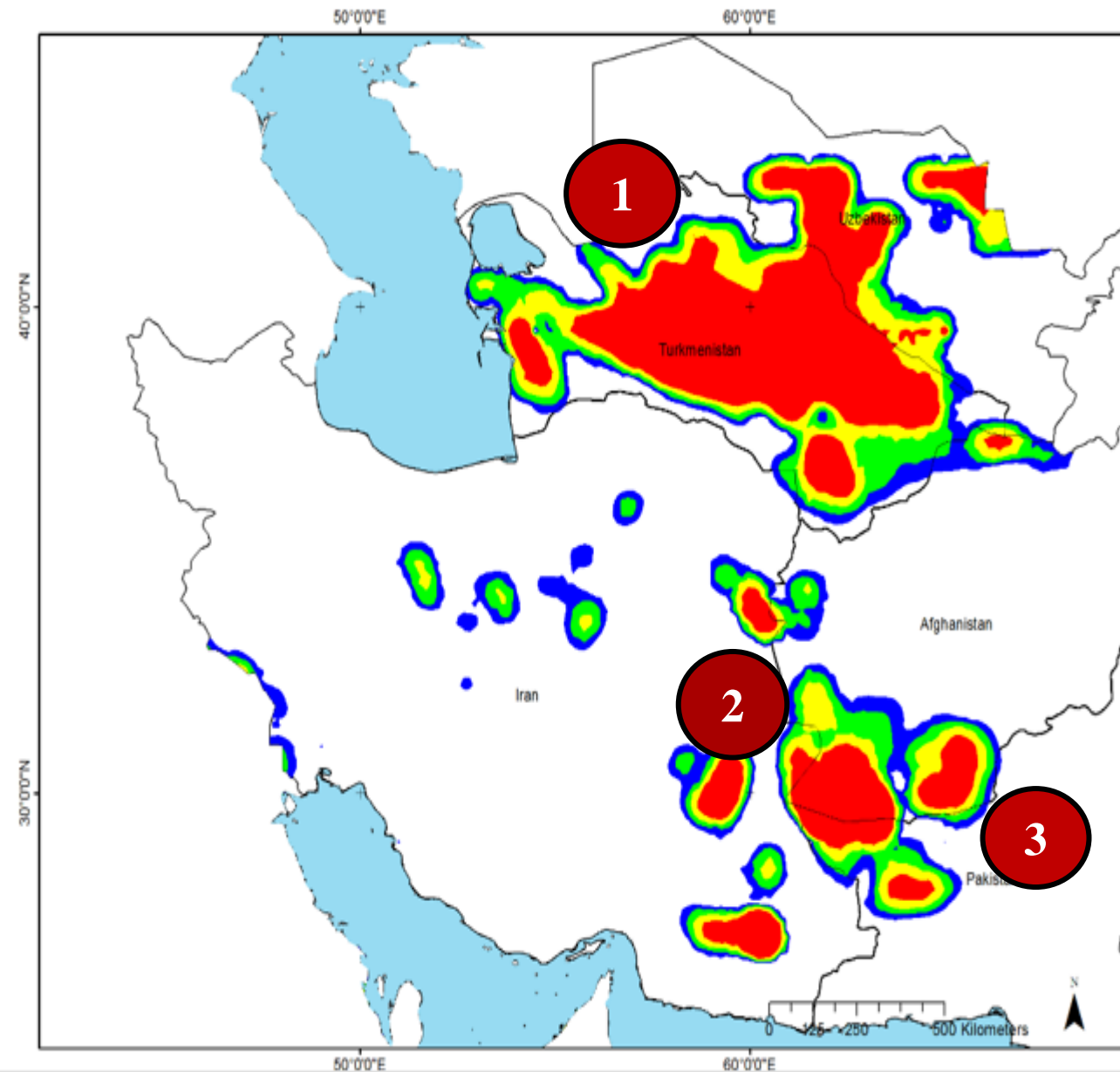
4. Collaboration with neighboring countries and UNEP on formulation of a Regional Master Plan for West Asia (2012-2014)

5. Preparation of two draft framework documents on **sub-regional action plan to combat SDS** for West and Central Asia A joint work between **National SDS Management Committees and EPO, National and Provincial SDS Management Committees and Kharazmi University in Teheran**

- Regional dust storm source identification
- Holistic approach to integrating social, economic and environmental aspects of SDS
- Combination of Mitigation and Adaptation approaches



- **West Asia** including Iran, Saudi Arabia, Turkey, Iraq, Syria, United Arab Emirates, Qatar, Kuwait, Jordan and Oman



- **Central Asia** including Iran, Afghanistan, Pakistan, Turkmenistan, Uzbekistan

*Sand and Dust Storm  
could unite countries in the region to  
collaborate for a prosperous life and  
sustainable environment for all*



Thank You