

IN THE NAME OF GOD

**WCRP-JNU Training School on
Monsoon variability in changing
climate**



Synoptical and dynamical study of dust storms and it's simulation on south west of Iran



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With an area of 1,648,000 square kilometres, Iran ranks eighteenth in size among the countries of the world.

Iran shares its northern borders with three: Armenia, Azerbaijan and Turkmenistan. These borders extend 650 kilometres of water along the southern shore of the Caspian Sea.

Western borders are with Turkey in the north and Iraq in the south.

The Persian Gulf and Gulf of Oman.

To the east lie Afghanistan on the north and Pakistan on the far south.



Area of study



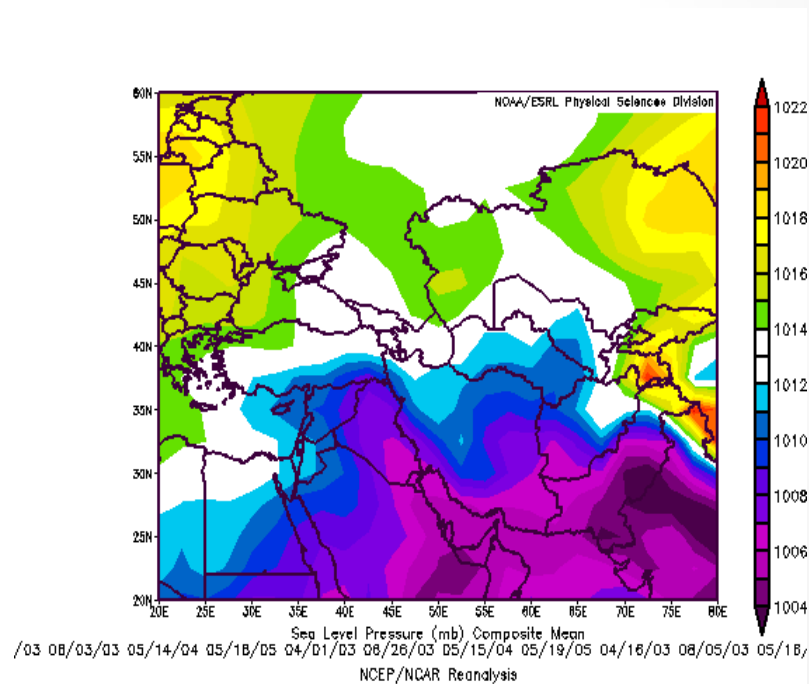
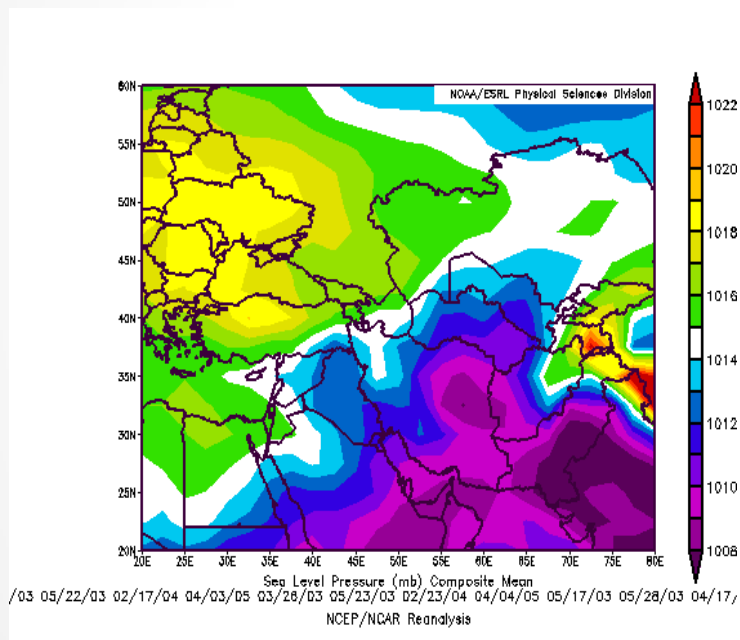
80 dusty days in terms of months of year

Februar y	March	Aprill	May	June	July	August	Octobr	Novemb er	decembe r
2002/02/23	2002/03/19	2003/04/01	2002/05/17	2003/06/01	2005/07/04	2003/08/05	2003/10/01	2003/11/29	2003/12/13
2003/02/27	2003/03/20	2003/04/16	2003/05/18	2003/06/02	2005/07/05	2003/08/21			
2004/02/16	2003/03/26	2004/04/17	2003/05/19	2003/06/03	2005/07/06	2003/08/30			
2004/02/17	2003/03/31	2005/04/03	2003/05/22	2003/06/26	2005/07/07	2005/08/08			
2004/02/23	2006/03/10	2005/04/04	2003/05/23	2005/06/12	2005/07/09	2005/08/09			
	2006/03/11	2006/04/11	2003/05/28	2005/06/13	2005/07/10	2005/08/18			
		2006/04/18	2004/05/12	2005/06/21	2005/07/11	2005/08/20			
		2006/04/11	2004/05/13	2005/06/22	2005/07/12				
		2006/04/25	2004/05/14	2005/06/24	2005/07/14				
			2004/05/15	2005/06/25	2005/07/15				
			2004/05/16	2006/06/13	2005/07/16				
			2005/05/03		2005/07/24				
			2005/05/04		2005/07/25				
			2005/05/05		2005/07/26				
			2005/05/06		2006/07/11				
			2005/05/18		2006/07/13				
			2005/05/19		2006/07/29				
			2006/05/01		2006/07/30				
			2006/05/10		2006/07/31				
			2006/05/18						

Mean sea level pressure maps

a) the first cluster

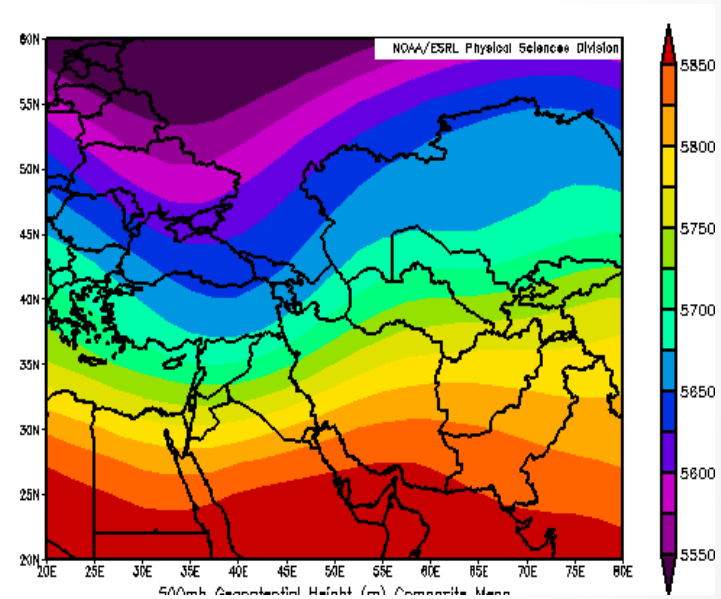
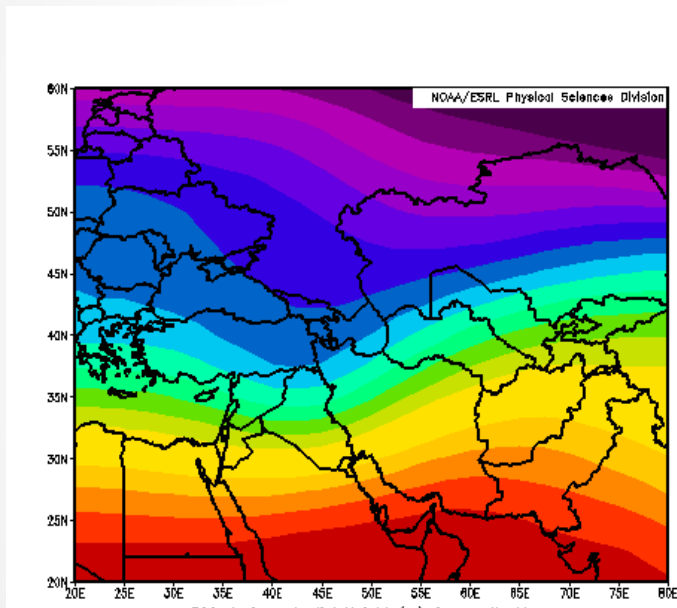
b) the second cluster



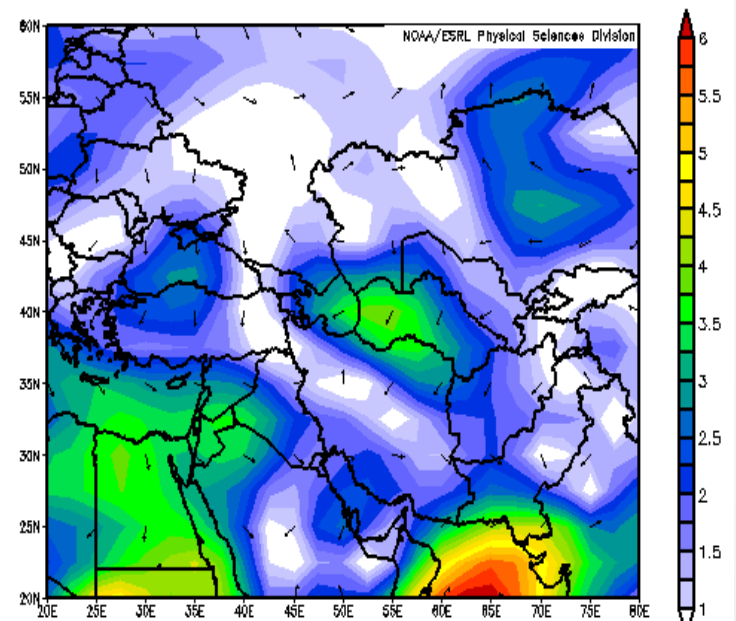
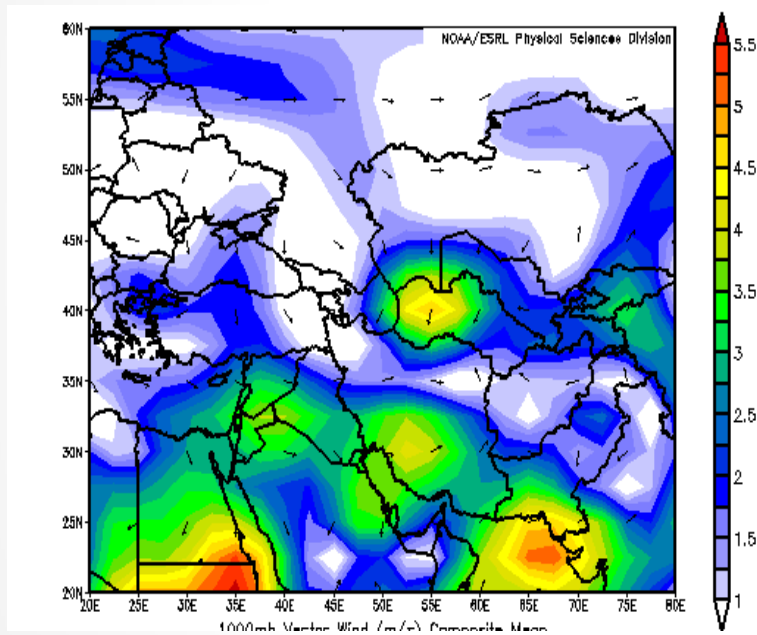
Mean of geopotential height in 500 hPa level

a) the first cluster

b) the second cluster



intensity and wind speed at surface level in a) the first cluster b) the second cluster



Thank you for your attention

