



Abstract Details

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Corresponding Author : Dr. Li Yiping (Liyiping888@sina.com)

Organization: The Observatory of Inner Mongolia

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Title: (OA3) The Operational System for Duststorm Forecast

Abstract: The whole Inner Mongolia has been divided into 5 regions (they are whole area , west , central , middle-west ,middle-east areas of Inner Mongolia) and the historical duststorm events since 1988 ,during the periods the ECMWF data had been well collected ,has been sorted into duststorm and severe duststorm types in order to set up different sample database. Depending on many year experiences on duststorm prediction , the throat values of excluding have been determined ,which means that if wind speed of a day does not over the value , e.g.8m/s,then it is impossible to develop a duststorm .The day will be excluded .Consulting the throat values of different elements , we exclude the actual data ,and then ,using the method of similar range degree analyze to compare the historical data to actual data of 3 element fields of the ECMWF (including 500hPa height ,850hPa temperature and sea-level pressure)to make duststorm forecast at different time level .Moreover ,a duststorm forecast operational system has been established by using VB and FORTRAN to compile computer programs which has human-computer interaction functions and can show the forecasts on the MICAPS automatically.

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Co-Authors

No.	Title	First Name	Family Name	Organization
1	Dr.	Li	Yiping	The Observatory of Inner Mongolia
2	Dr.		Songliying	The Weather Bureau of Hulunbeier
3	Dr.		Kangling	The Observatory of Inner Mongolia

