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Software INCAS (Convective Clouds Indicator to Seeding Activities) to convective clouds class forecast in Mendoza (Argentina).

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With the objective of to get to forecast and operative determinations tool to seeding of hailstorm in the damage mitigations job that produces its precipitation in Mendoza (Argentina), we developed to software based in on surface and 500 mb. level atmospherics variable. We had used on surface dates because in this level exist to big amount of information, practically it is possible to get its measures continuously; in addition it is the level that data of damages are registered that the hail precipitation produces. The decision to use the level of 500 mb, it must to that it is the height in which the upset one of the air circulation takes place from the Pacific to Mendoza, who produces important changes and instability in the atmosphere of Mendoza, these data were obtained from the radiosonde of Santo Domingo in Santiago (Chile) and El Plumerillo (Mendoza).
In the program is integrated the different indices and models obtained in ours works from investigation on the subject of last the five years. Since the October of 2004 to April of 2009 the values have been taken from the variables mentioned every day, hourly during the fight campaigns antihail (October-April). The results have integrated in the program INCAS, whom it is due to enter the surface variables: Temperature in °C, the dew point in °C, the atmospheric pressure in mb., the index of ultraviolet solar radiation, the direction and wind speed; whereas the variables of the level of 500 are due to introduce mb: height of the level of 500 mb in meters, temperature of the level in °C, the direction and wind speed to that height. From the process of these variables the type of convective process is obtained like exit of the program , that is more probable that it appears in Mendoza for these atmospheric conditions; the thresholds that trigger to the stormy processes and their possible severity.
This year software was validated in his first version, obtaining itself very good results.