

# TORNADO PARAMETERS FOR NUCLEAR POWER PLANTS

Quarterly Report

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**MASTER**

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A preliminary map containing all recorded tornado tracks since 1930 should be completed within the next several weeks. A rechecking of all tornadoes will be performed at that time. The final drafting will commence within the next two months. Therefore, the finished product can be expected some time in mid-winter 1975-76. The map will include distinction between FO-F1, F2-F3, and F4-F5 tornadoes.

Additional mapping is being completed to show only F2 or stronger tornadoes by decades since 1930. Each decade is individually drawn which makes it easier to analyze the variations which take place from decade to decade and also to delineate the various tracks.

Total path lengths are being tabulated for all tornadoes by F-scale. This tabulation has been almost completed as of this date. The computations are for each one degree square for the entire U.S. from 1930-74. Information obtained from these charts will give clues as to where longer and stronger tornadoes predominate and not just the location of the greatest number of tornadoes.

The one-degree individual tornado maps for 1974 have been finalized. There had been a number of additions and deletions sent in during the first half of 1975. Plotting of the one-degree charts has been completed through June 1975 barring any further changes. Each one of these maps has been catalogued since the

beginning of 1971. Each track map contains the entire path of the individual tornado along with the F,P,P, classification, longitude and latitude and other vital information.

Several movies are now in our possession for the computation of wind-speeds within the tornado vortex. Some of these are of good quality and will be quite useful. Research and reports directed towards this end will begin in the new fiscal period. The initial work has been done and the results appear to be promising.

Thus far, the research for the current fiscal year has progressed smoothly with no additional expenses or problems expected.