Cherokee Nation Enterprises

WIND ENERGY FEASIBILITY STUDY

Grant Report

October 19, 2004

Cherokee Nation Enterprises

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- Cherokee Nation
  - 2nd Largest Tribe in the United States
  - 14-county Jurisdiction in Northeastern Oklahoma
- 13-month study
  - Approximately $270,000
  - Location in Kay County, Oklahoma on 4,275 acre property

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- Model 4000 MiniSODAR High Frequency Doppler Equipment
  - Wind Speed Accuracy – 2 degrees
  - Measurement can be taken from 15 to 200 meter altitudes in 5 meter increments
  - Unit is portable and can be mounted on a trailer
  - Data is read via modem connection

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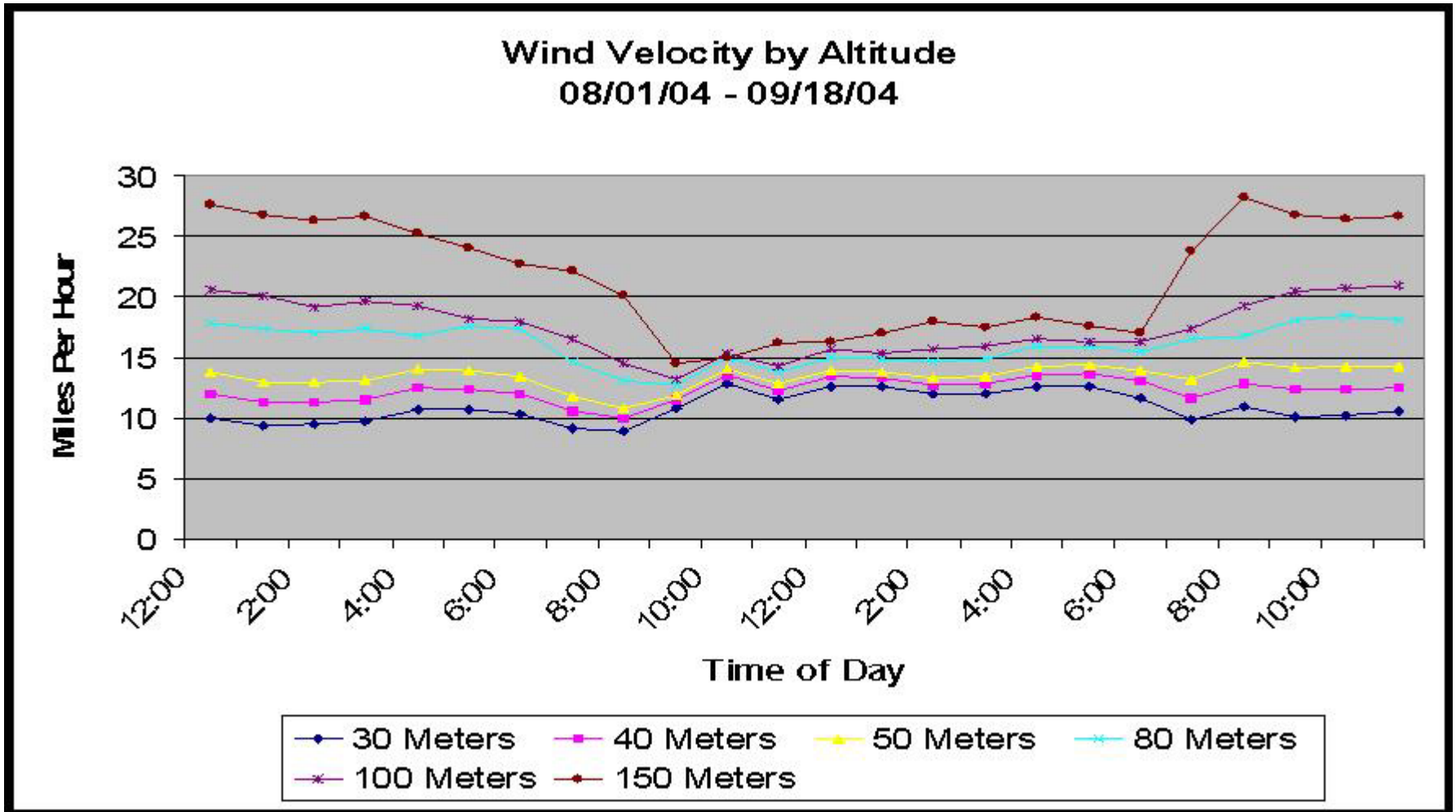

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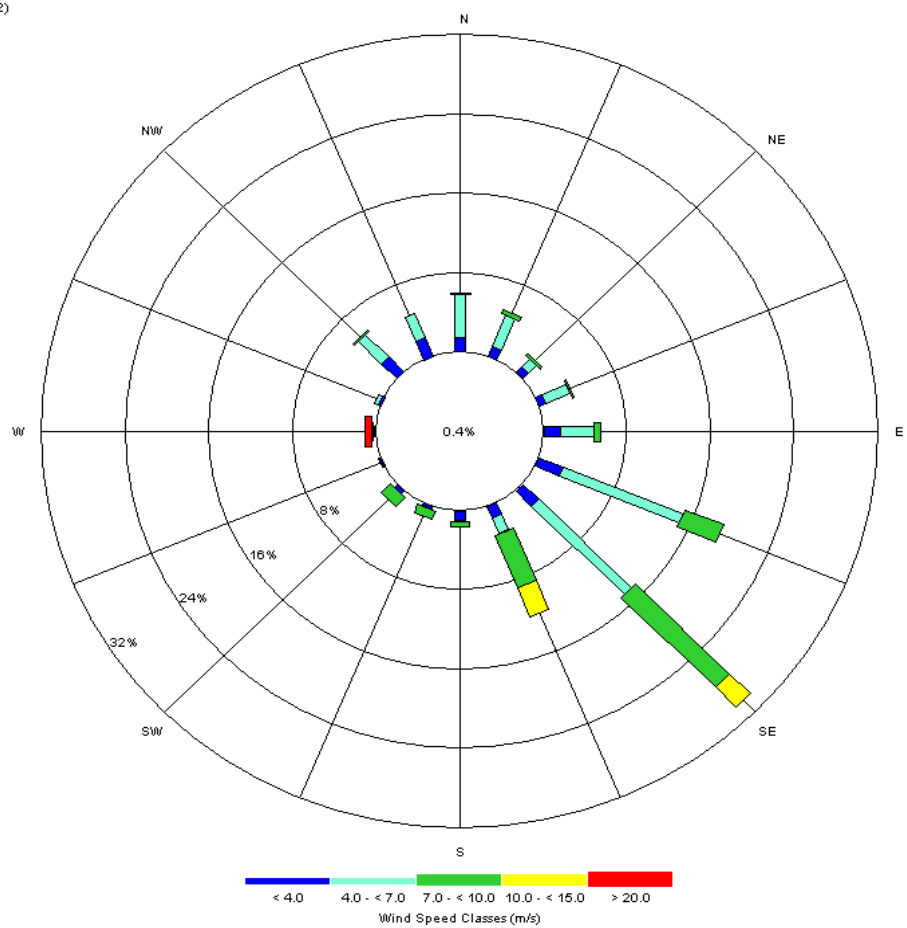
Total Windrose Data For Chilocco (avg_Hour 02)
50 Meter Level
For The Period 8/18/2004 to 9/18/2004