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U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

VARIABILITY OF WINDS WITH TIME AND SPACE

PART 2

APPENDIX III, PART C, #2 AND PART D

OF PARTS A, B, C AND D

#38240636

By

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NATIONAL WEATHER RECORDS CENTER

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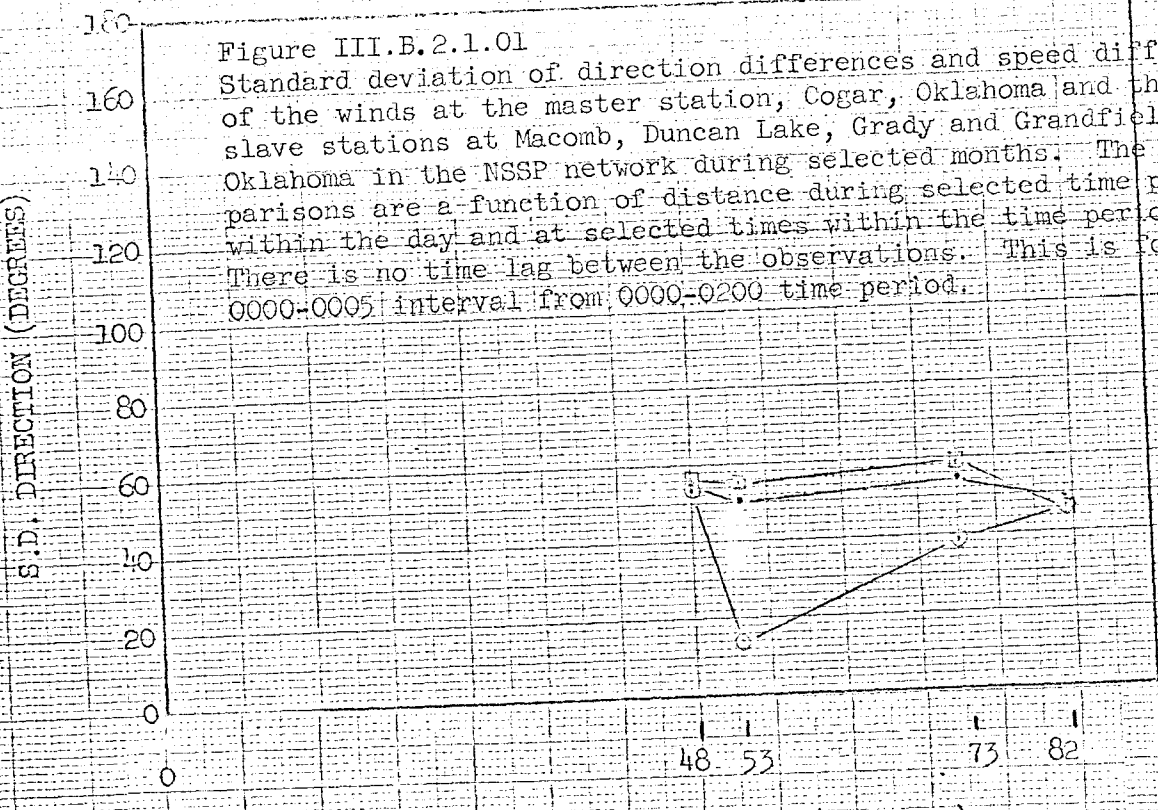
Prepared For

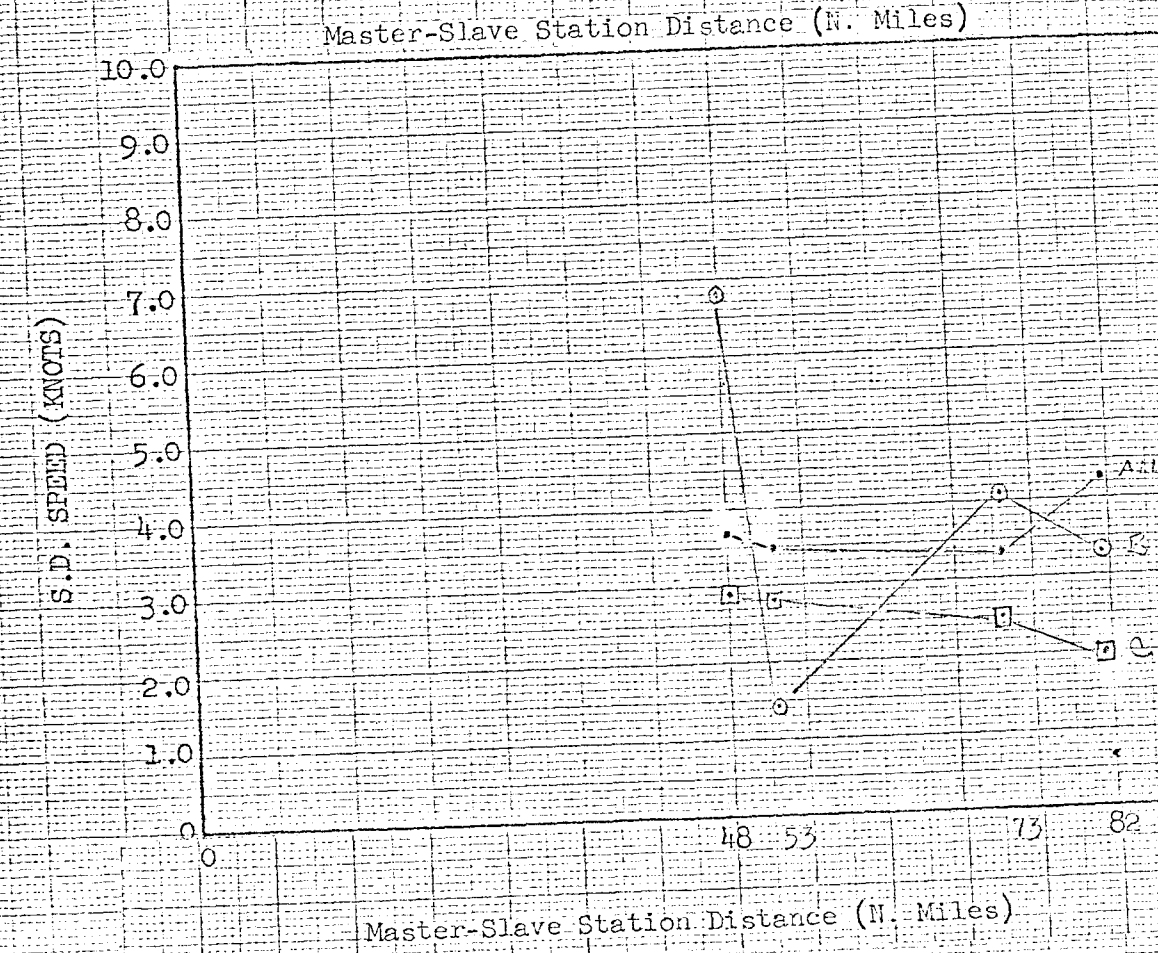
THE NAVAL ORDNANCE TEST STATION
(NOTS)
CHINA LAKE, CALIFORNIA

July 1968

OKLAHOMA BETA NETWORK

Figure III.B.2.1.01
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0000-0005 interval from 0000-0200 time period.

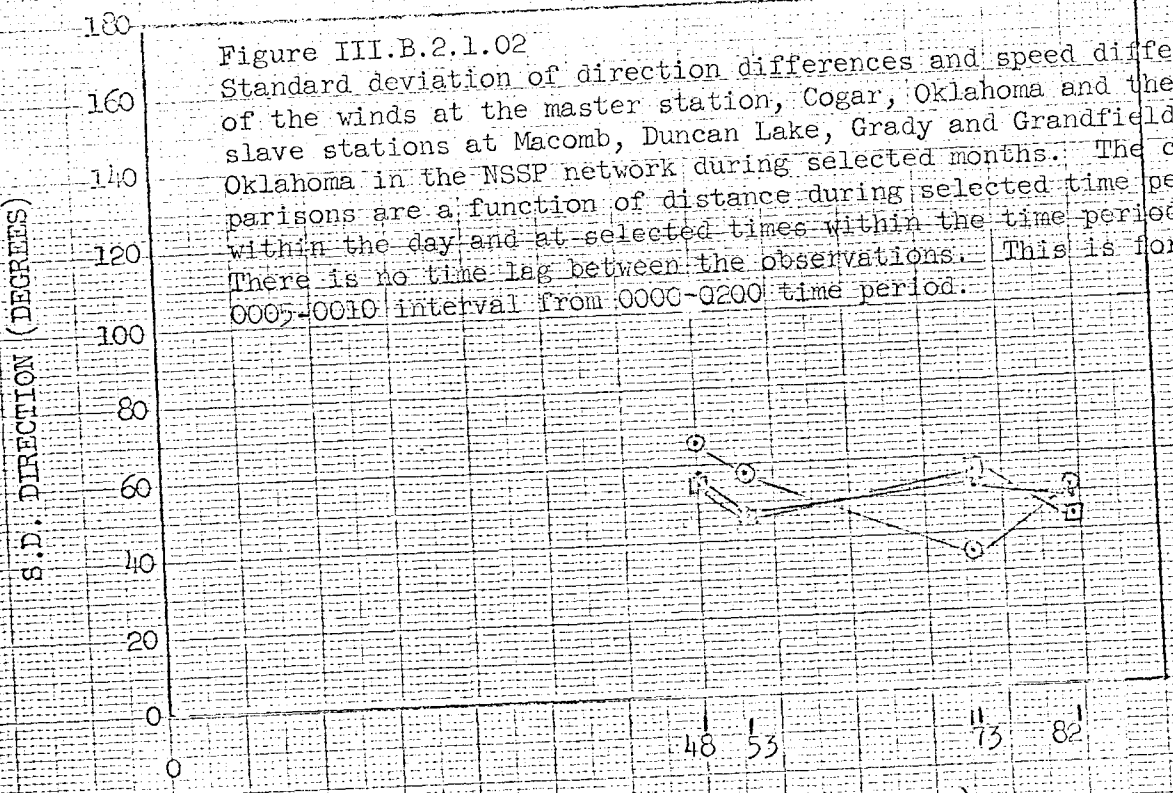


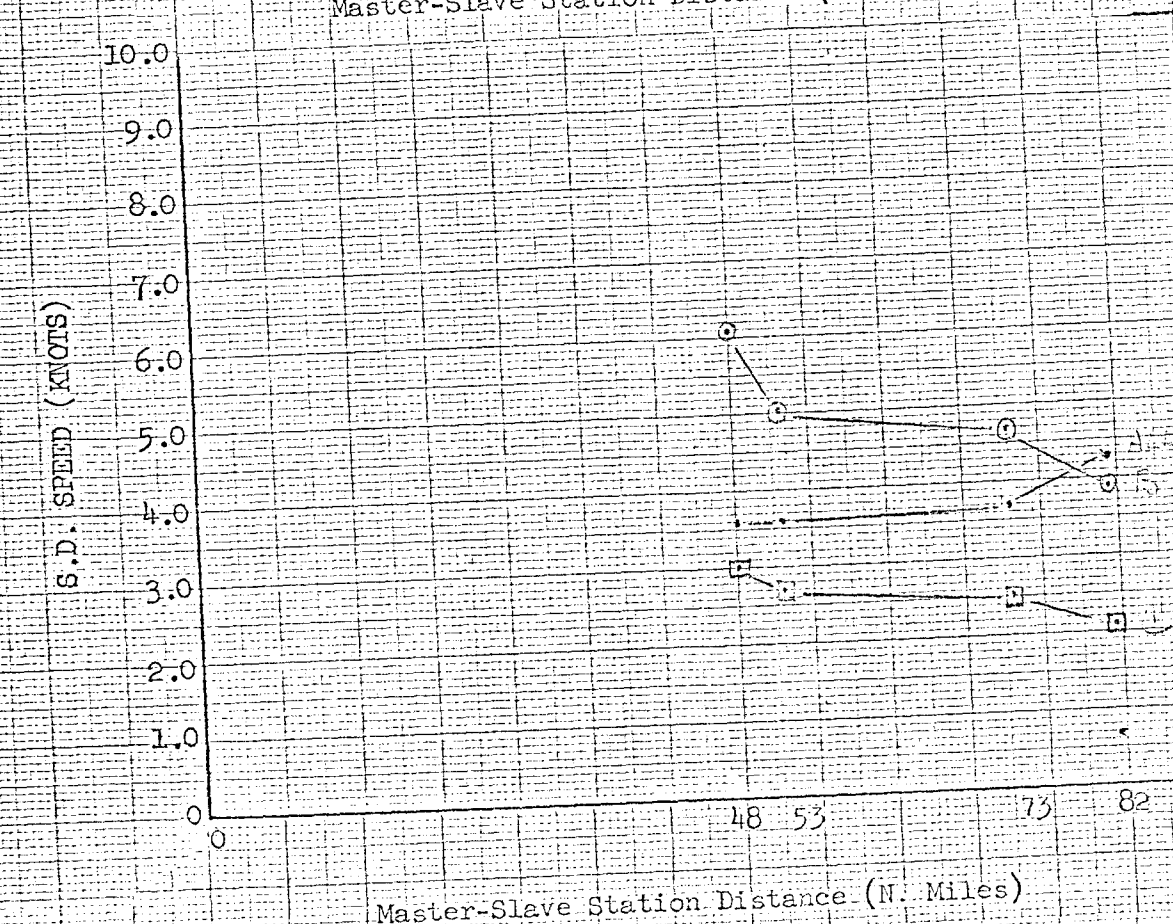


TIME PERIOD 1 TIME GROUP 01 LAG 00

OKLAHOMA BETA NETWORK

Figure III.B.2.1.02
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0005-0010 interval from 0000-0200 time period.

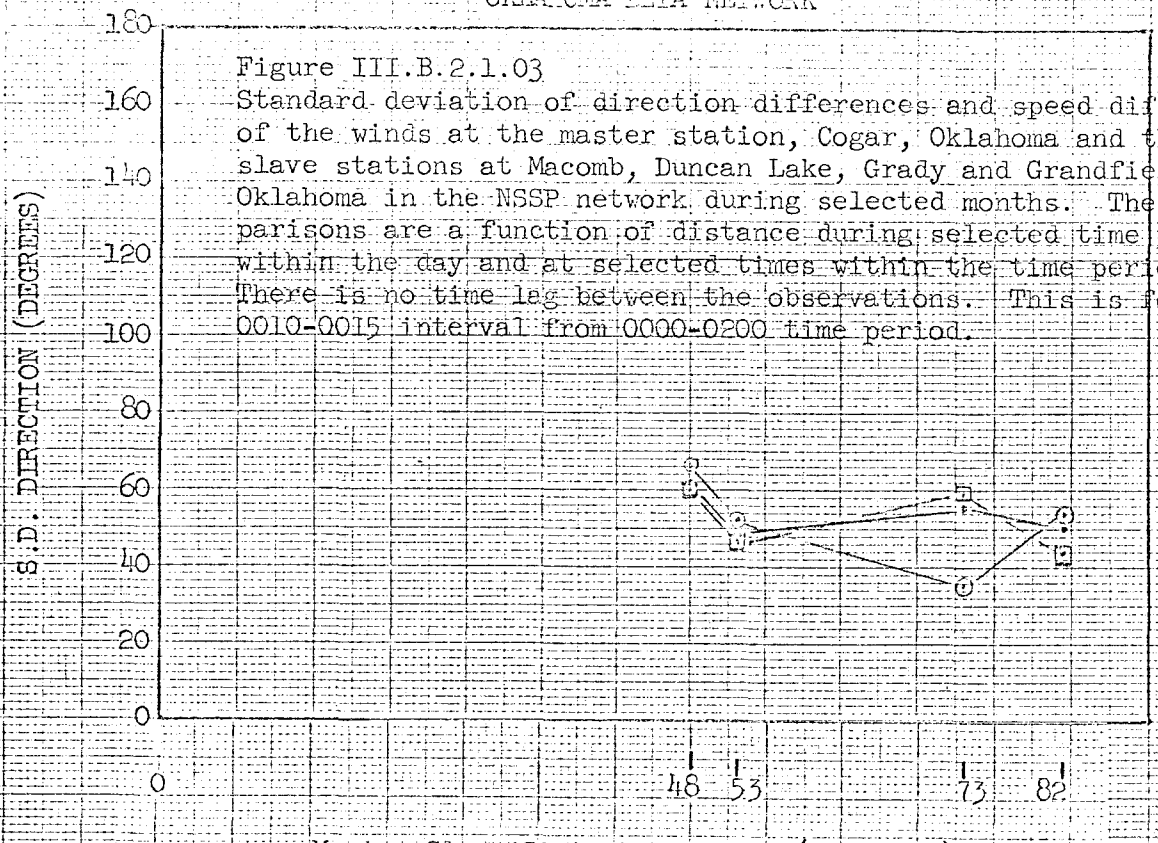


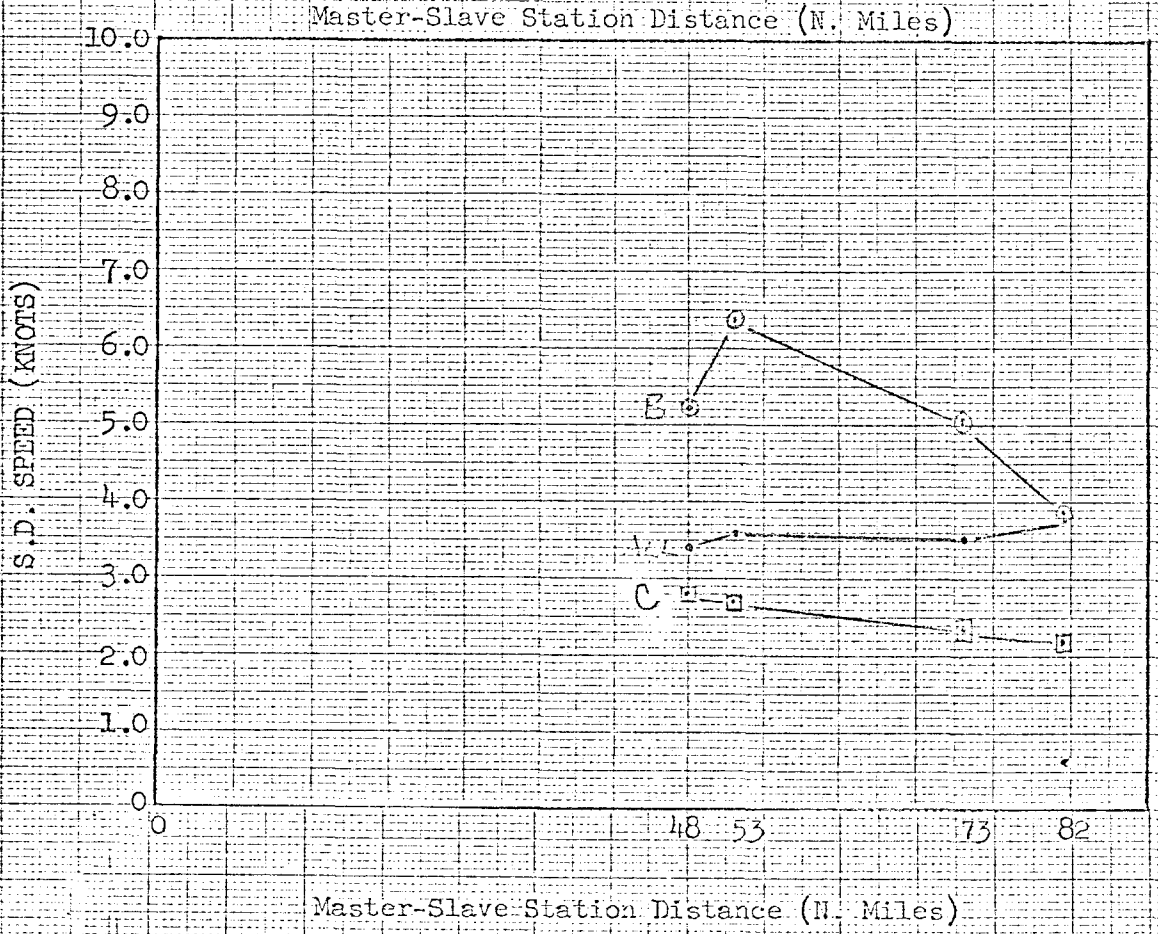


TIME PERIOD 1 TIME GROUP 02 LAG 00

OKLAHOMA BETA NETWORK

Figure III.B.2.1.03
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0010-0015 interval from 0000-0200 time period.





TIME PERIOD 1 TIME GROUP 03 LAG 00

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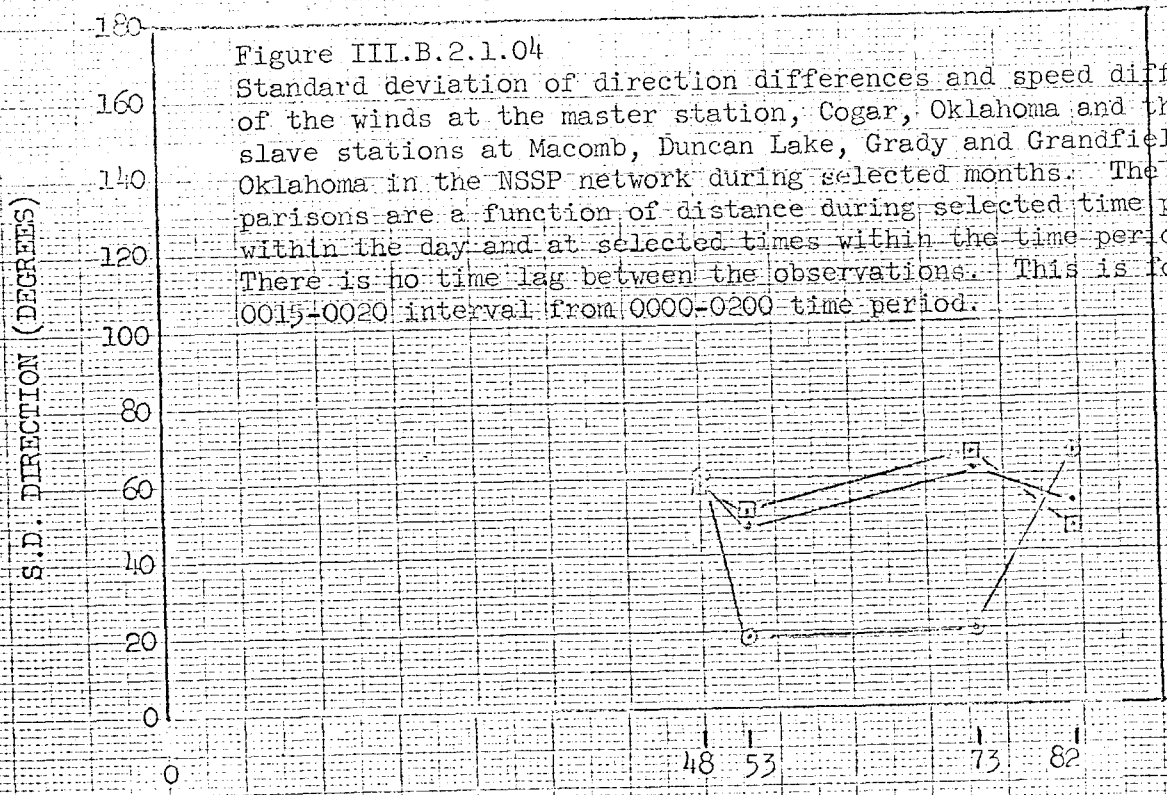
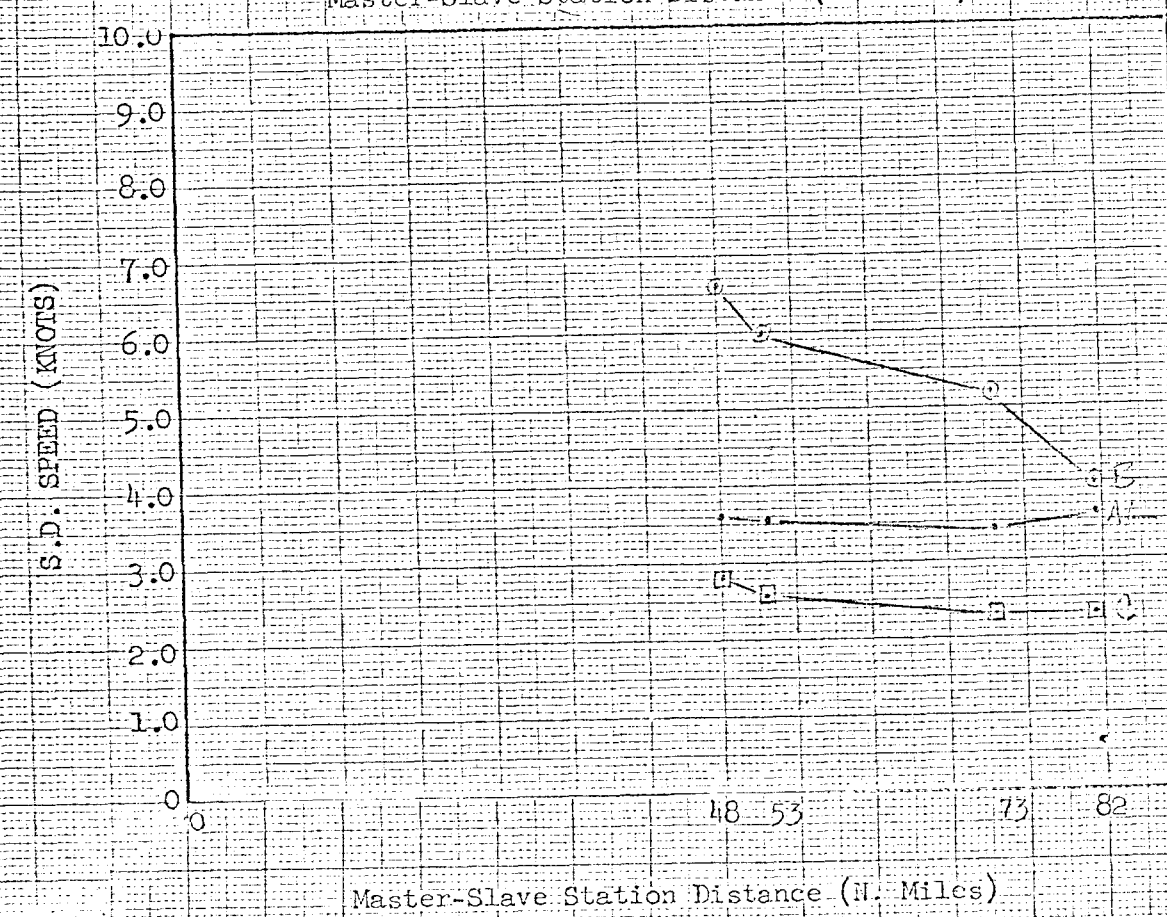
OKLAHOMA BETA NETWORK

Figure III.B.2.1.04
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0015-0020 interval from 0000-0200 time period.

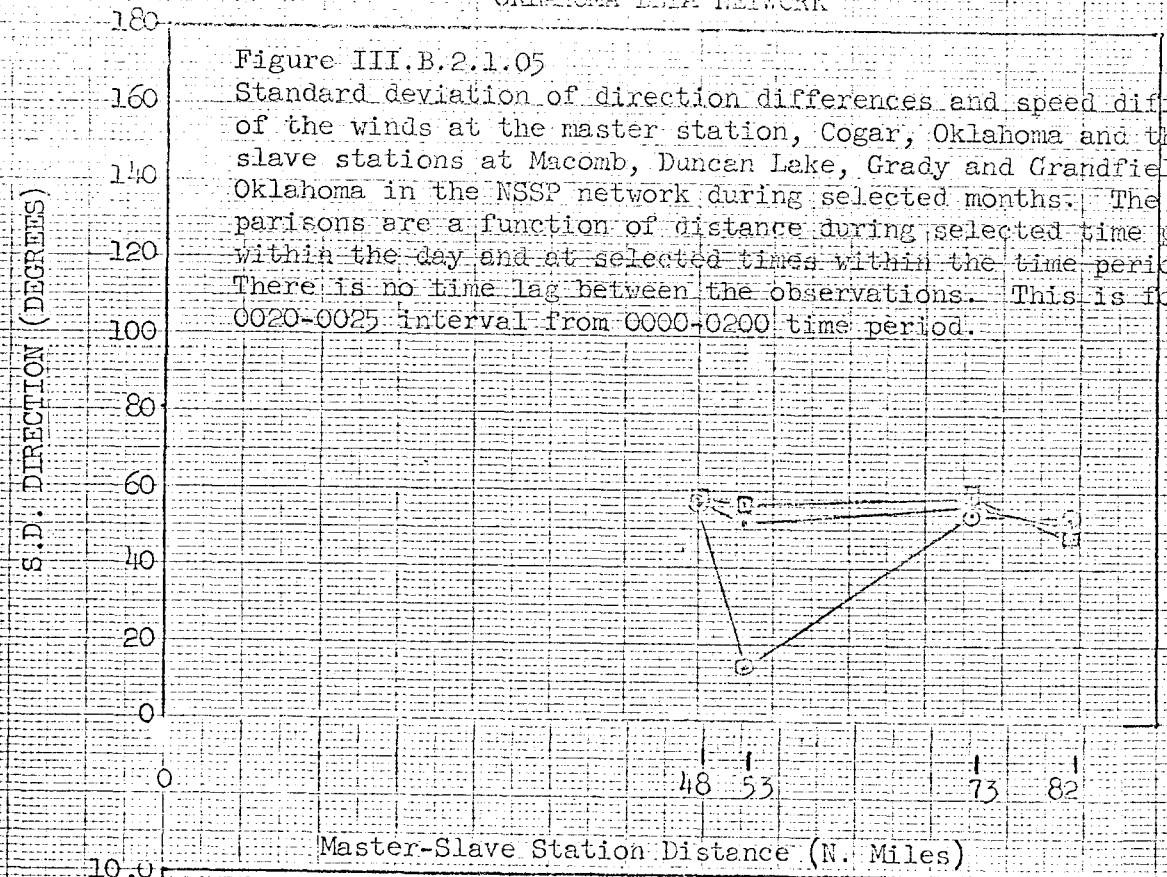


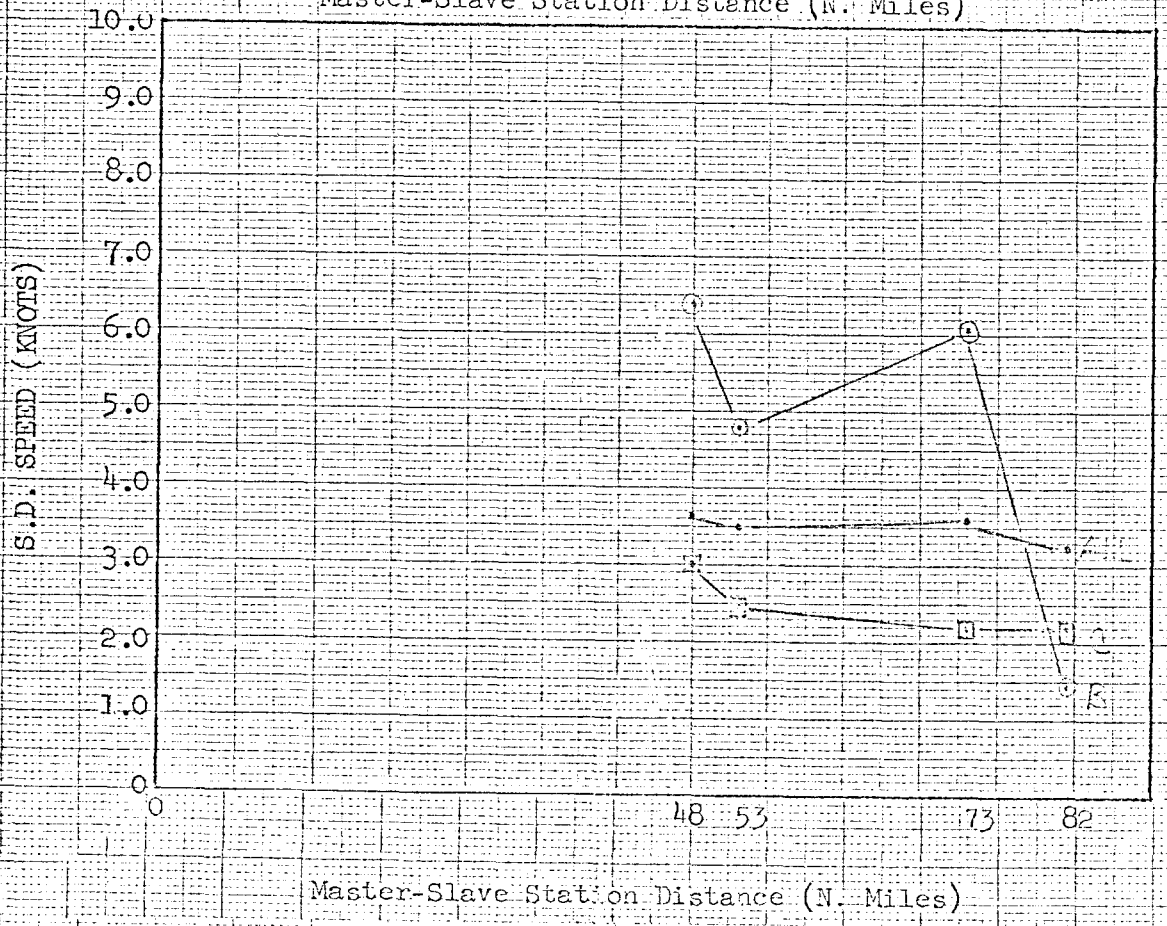


TIME PERIOD 1 TIME GROUP 04 LAG 00

OKLAHOMA BETA NETWORK

Figure III.B.2.1.05
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0020-0025 interval from 0000-0200 time period.





TIME PERIOD 1 TIME GROUP 05 LAG 00

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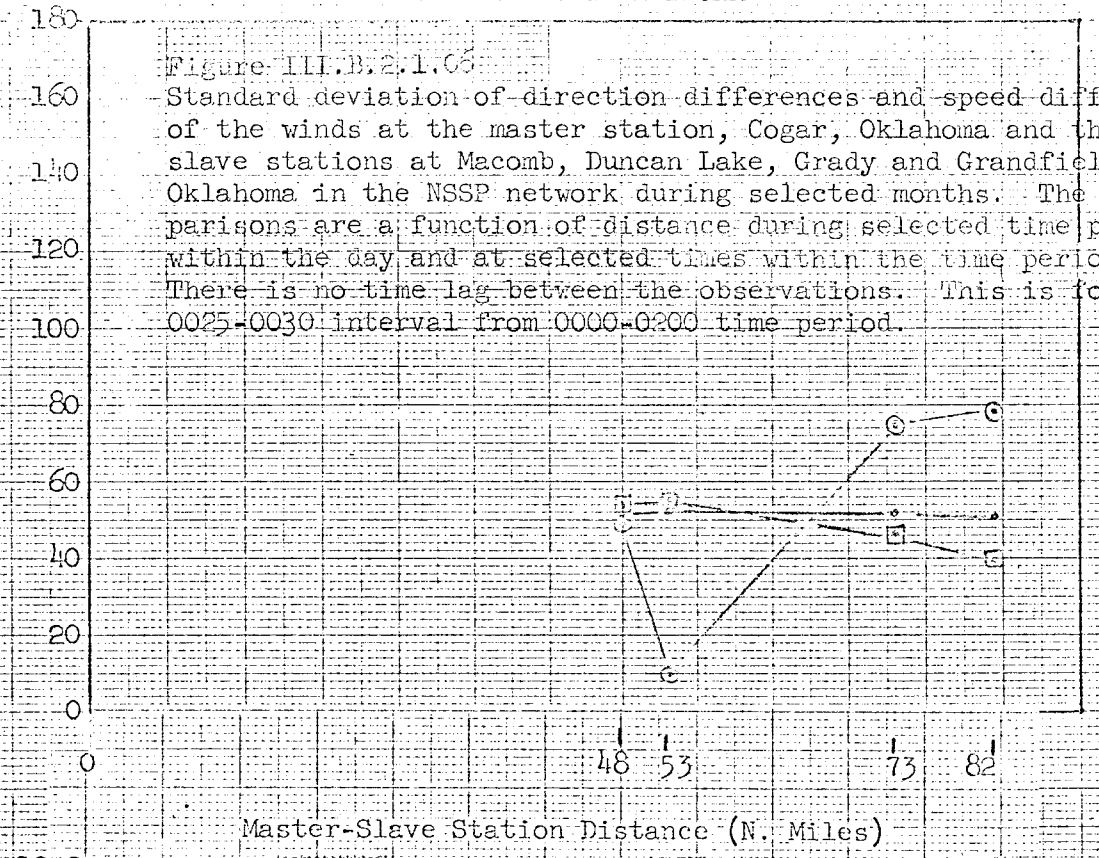
OKLAHOMA BETA NETWORK

Figure III.B.2.1.06
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0025-0030 interval from 0000-0200 time period.



TIME PERIOD 1 TIME GROUP 06 LAG 00

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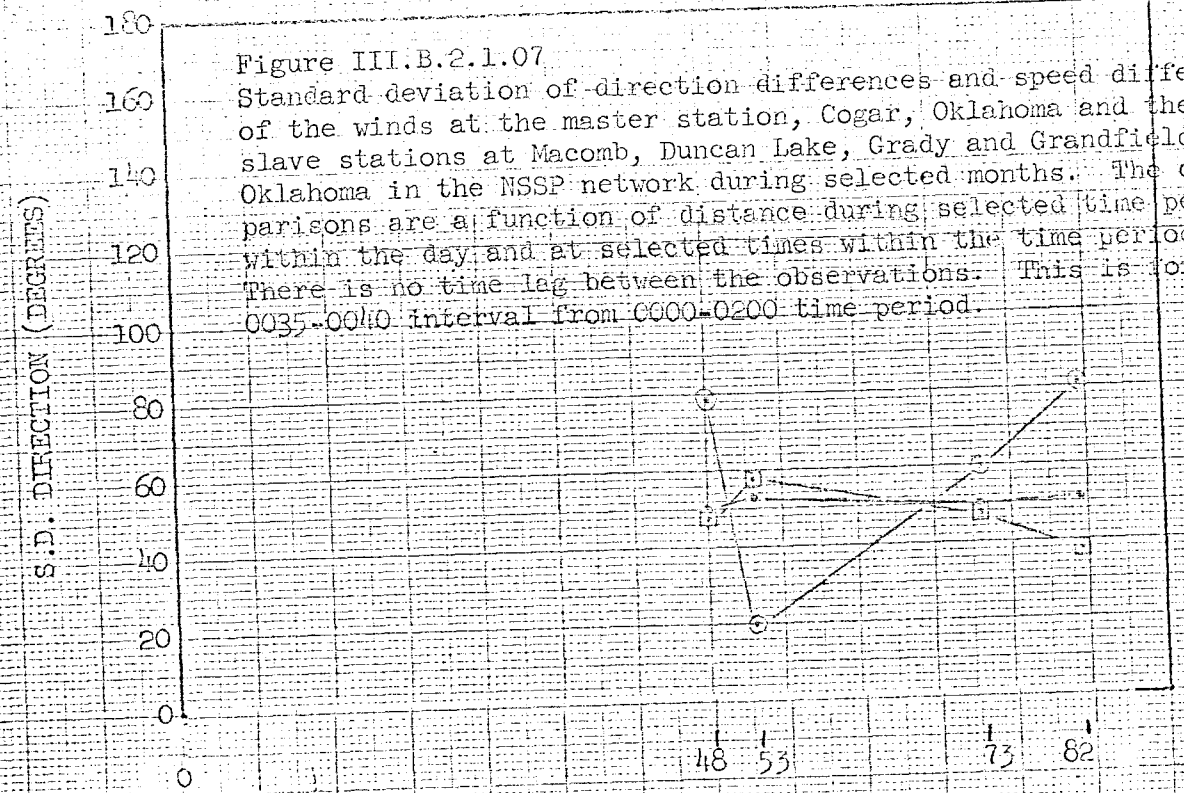
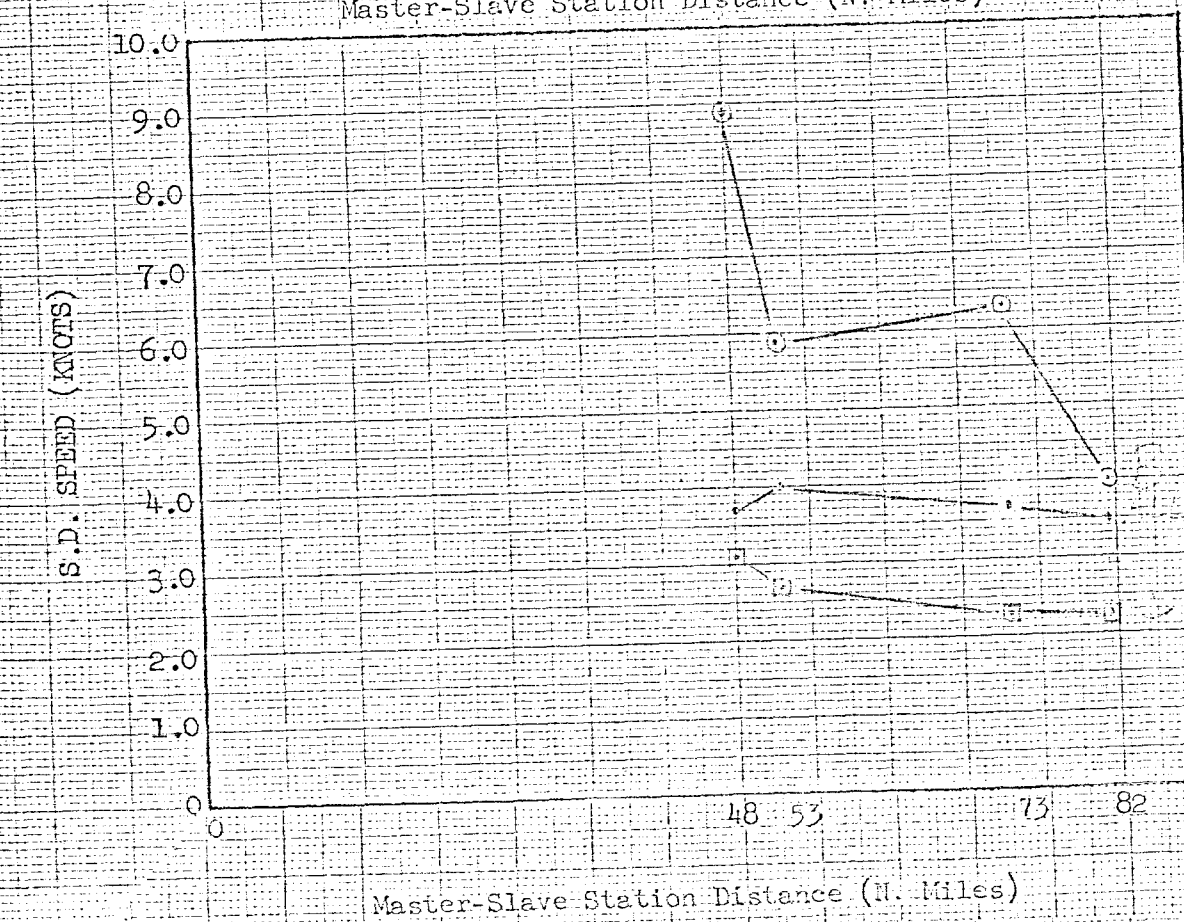
OKLAHOMA BETA NETWORK

Figure III.B.2.1.07
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0035-0040 interval from 0000-0200 time period.





TIME PERIOD 1 TIME GROUP 07 LAG 00

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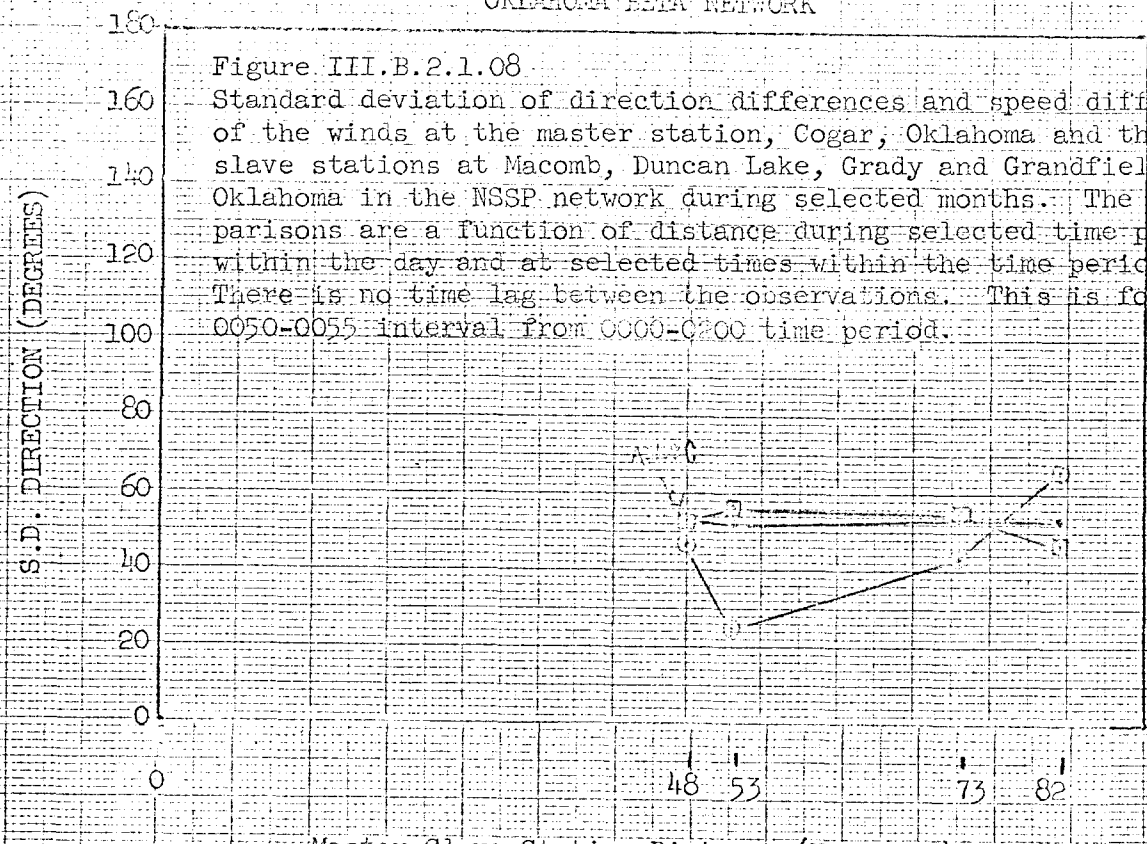
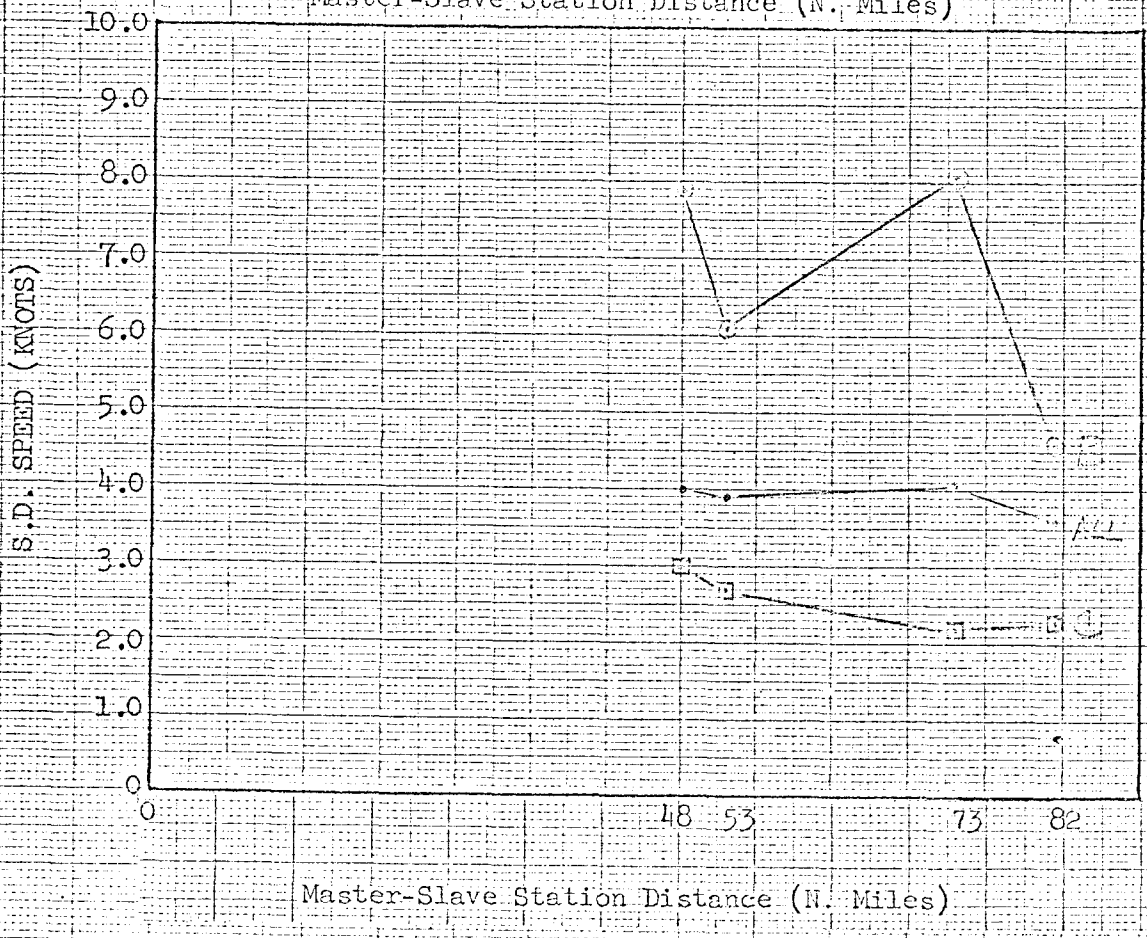
OKLAHOMA BETA NETWORK

Figure III.B.2.1.08
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0050-0055 interval from 0000-0200 time period.





TIME PERIOD 1 TIME GROUP 0 LAG 00

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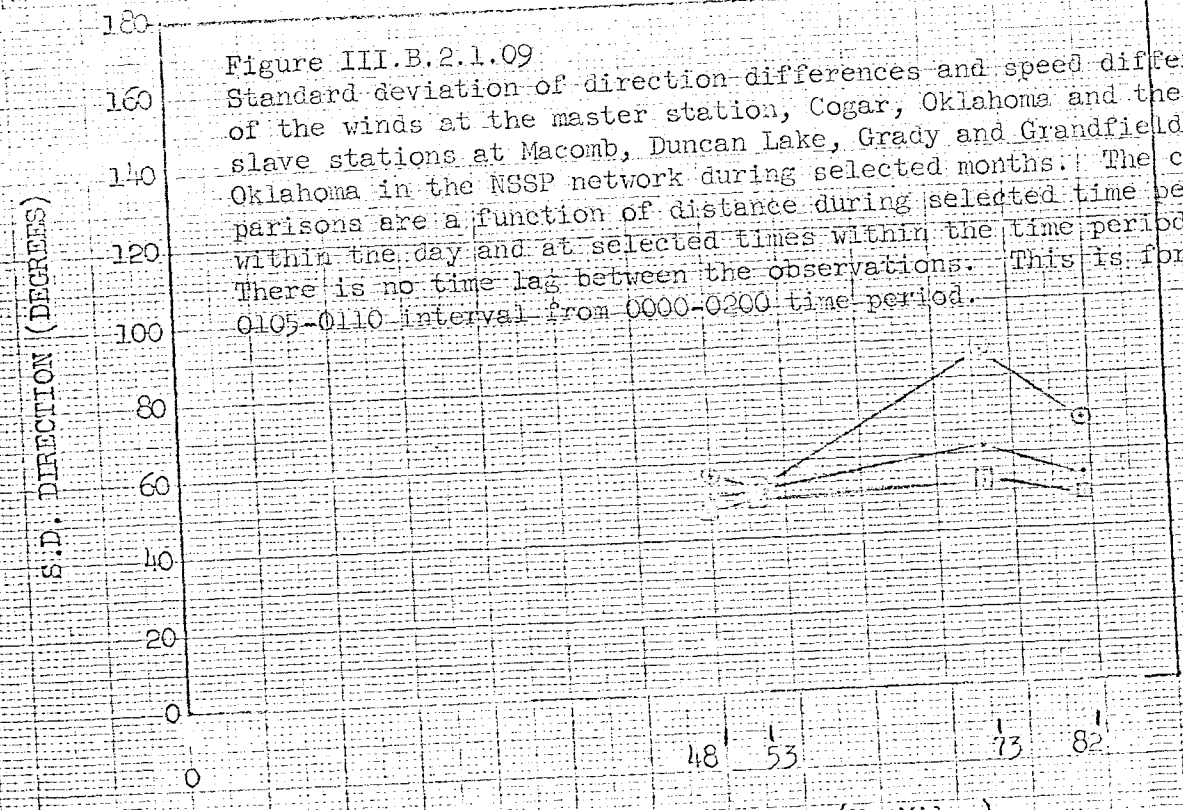
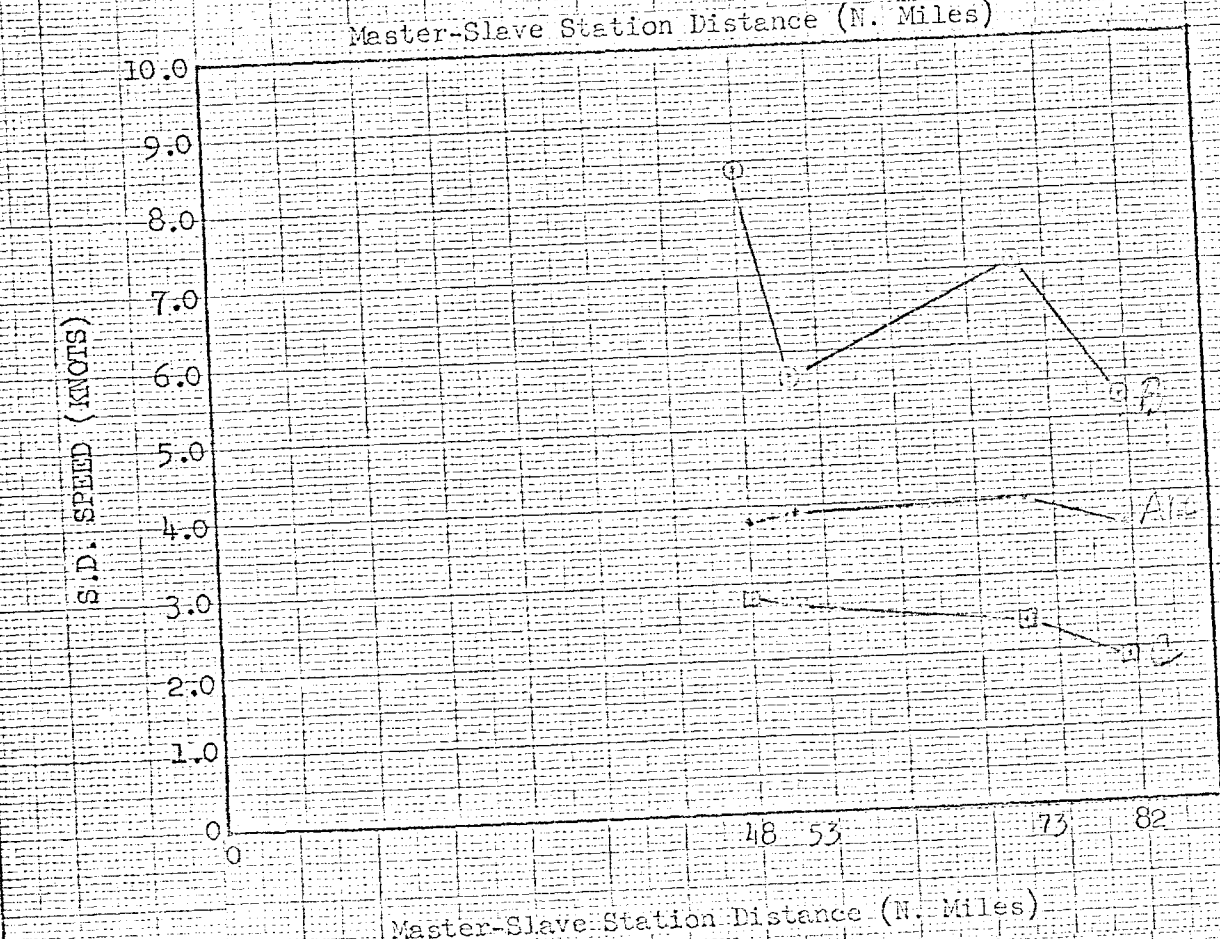
OKLAHOMA BETA NETWORK

Figure III.B.2.1.09
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0105-0110 interval from 0000-0200 time period.





TIME PERIOD 1 TIME GROUP 02 LAG 00

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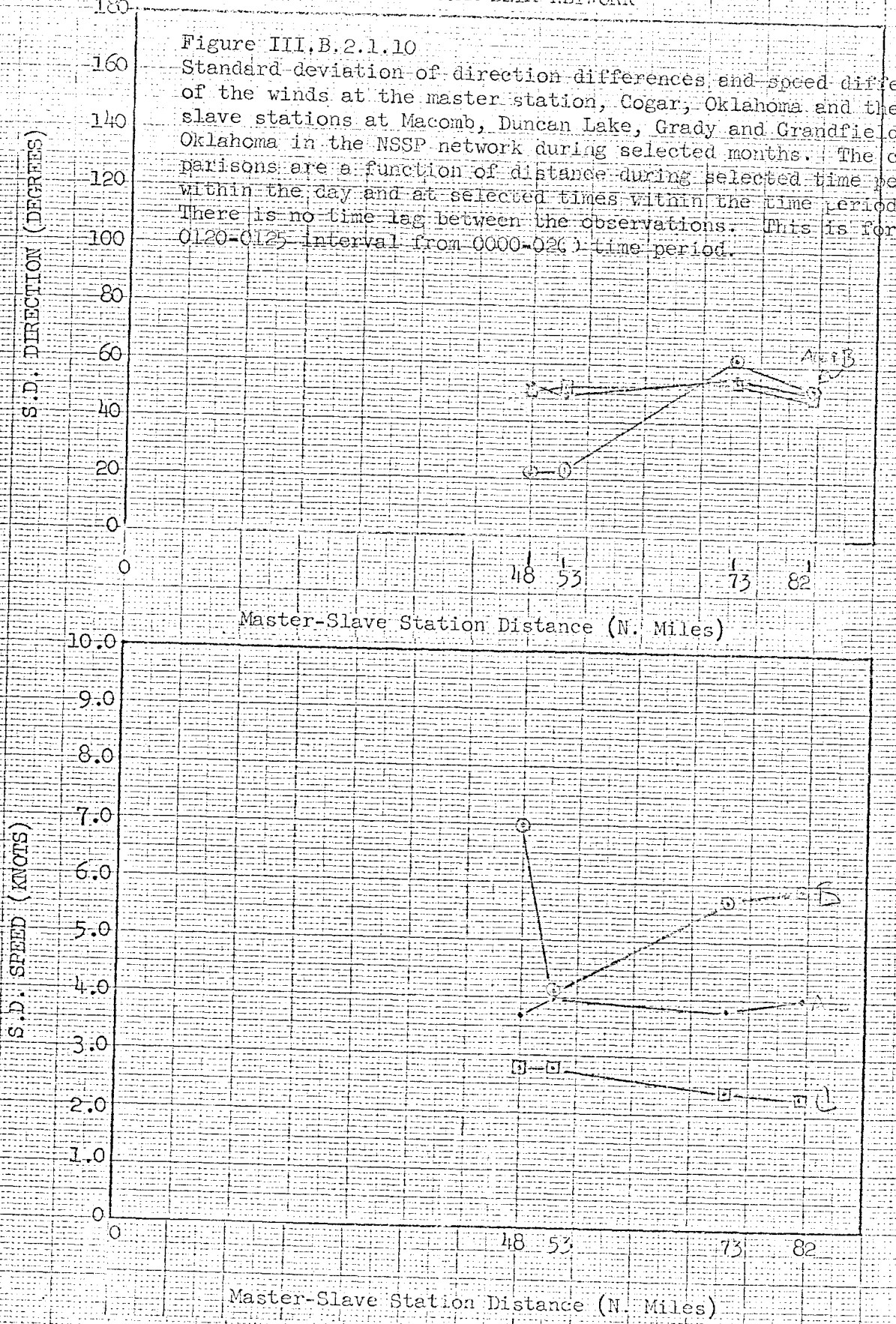
OKLAHOMA BETA NETWORK

Figure III,B.2.1.10
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0120-0125 interval from 0000-0200 time period.



TIME PERIOD 1 TIME GROUP 1 LAG 00

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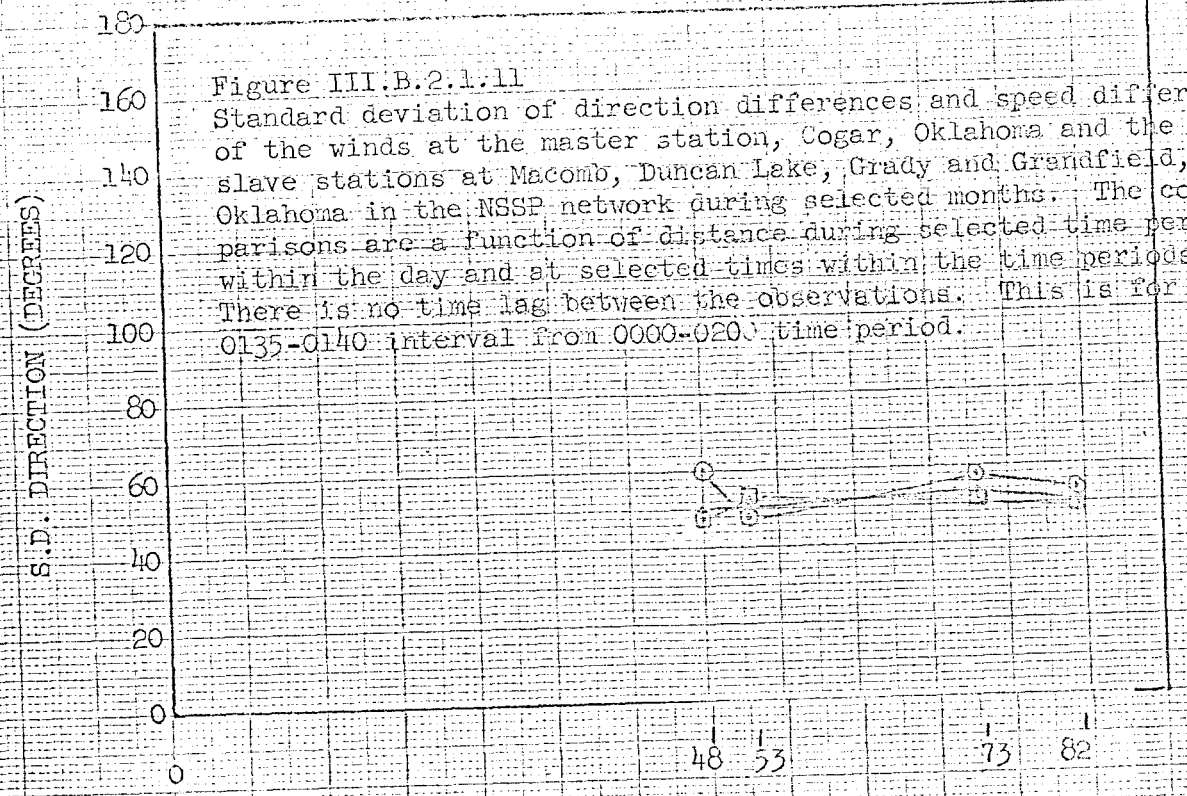
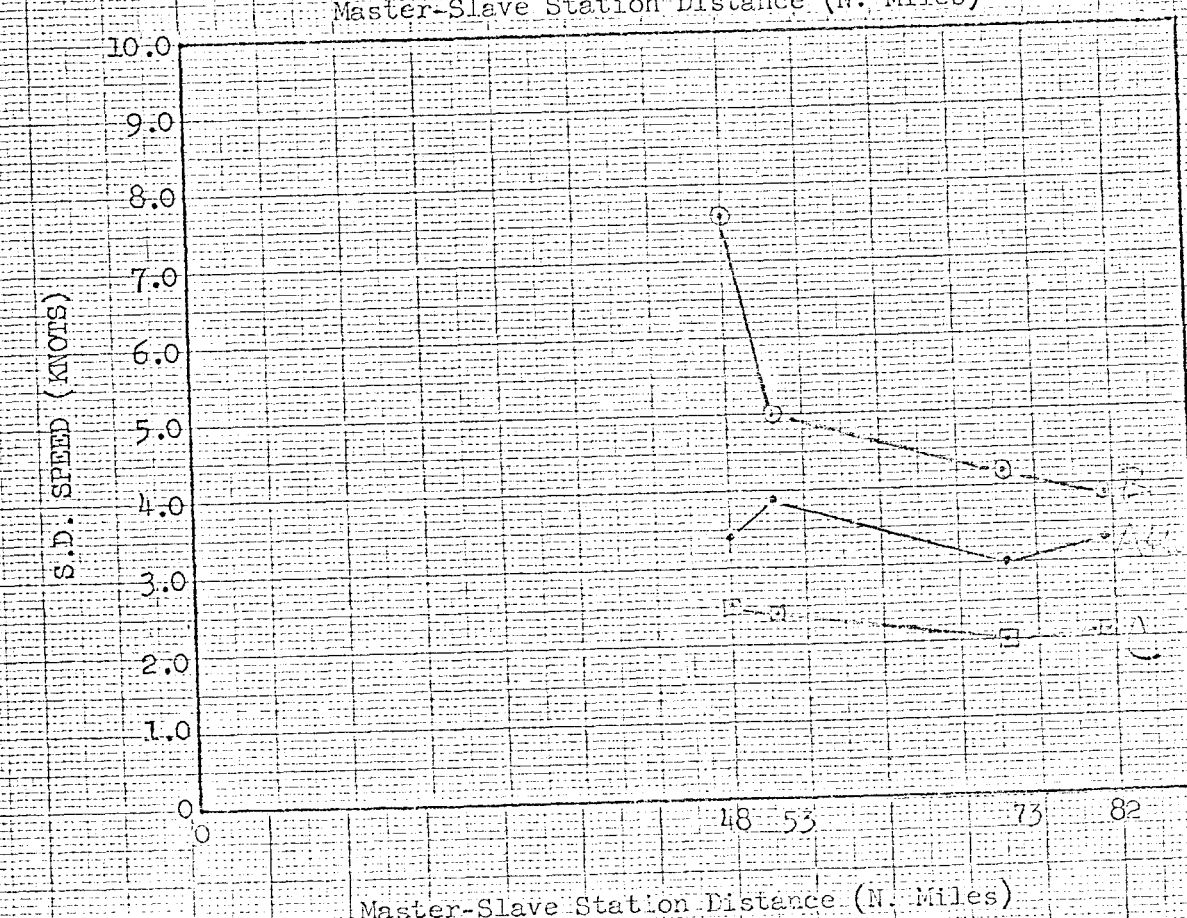
OKLAHOMA BETA NETWORK

Figure III.B.2.1.11
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0135-0140 interval from 0000-0200 time period.





TIME PERIOD / TIME GROUP // LAG 00

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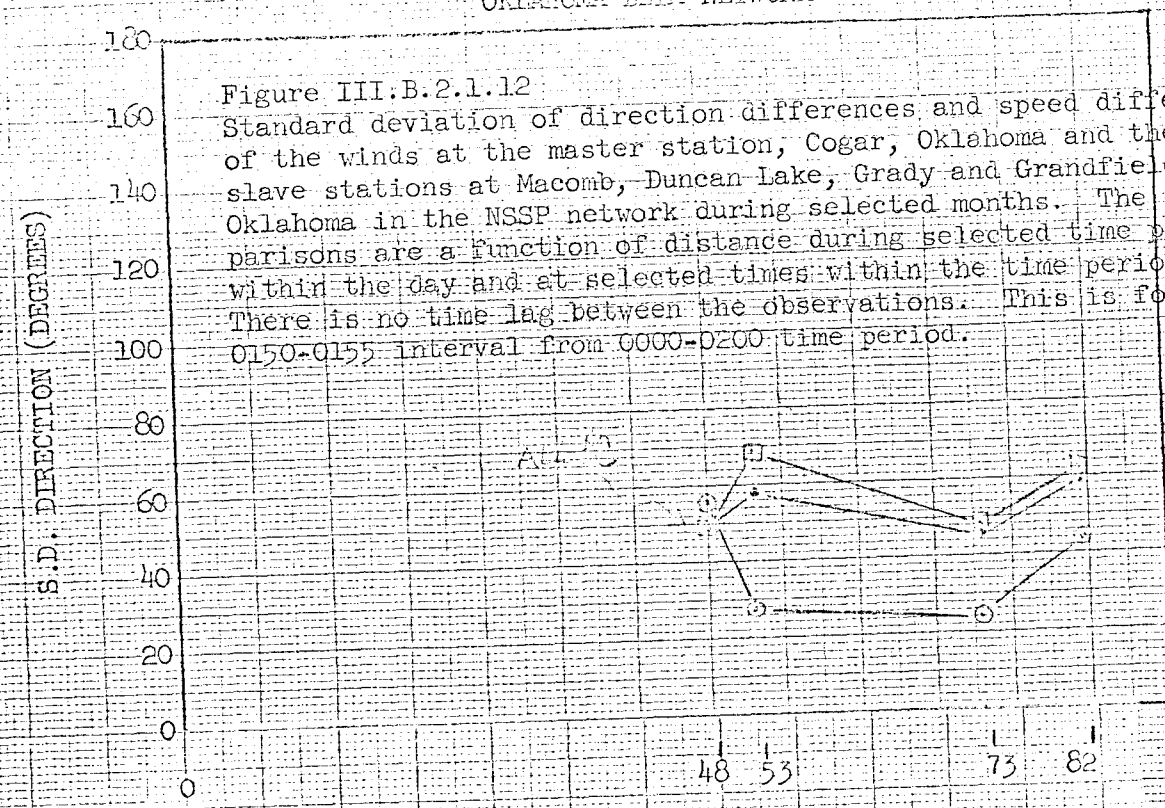
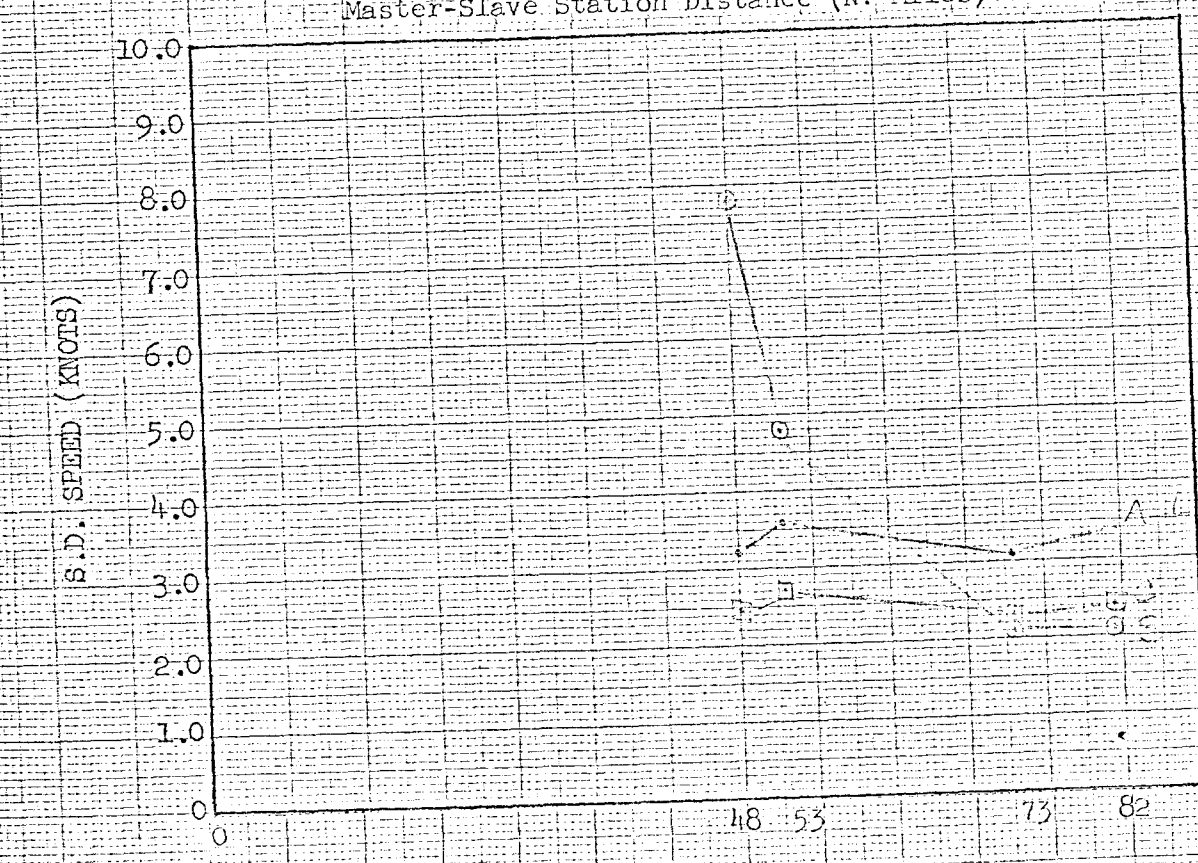
OKLAHOMA ESSA NETWORK

Figure III:B.2.1.12
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0150-0155 interval from 0000-0200 time period.





TIME PERIOD 1 TIME GROUP 1 LAG 00

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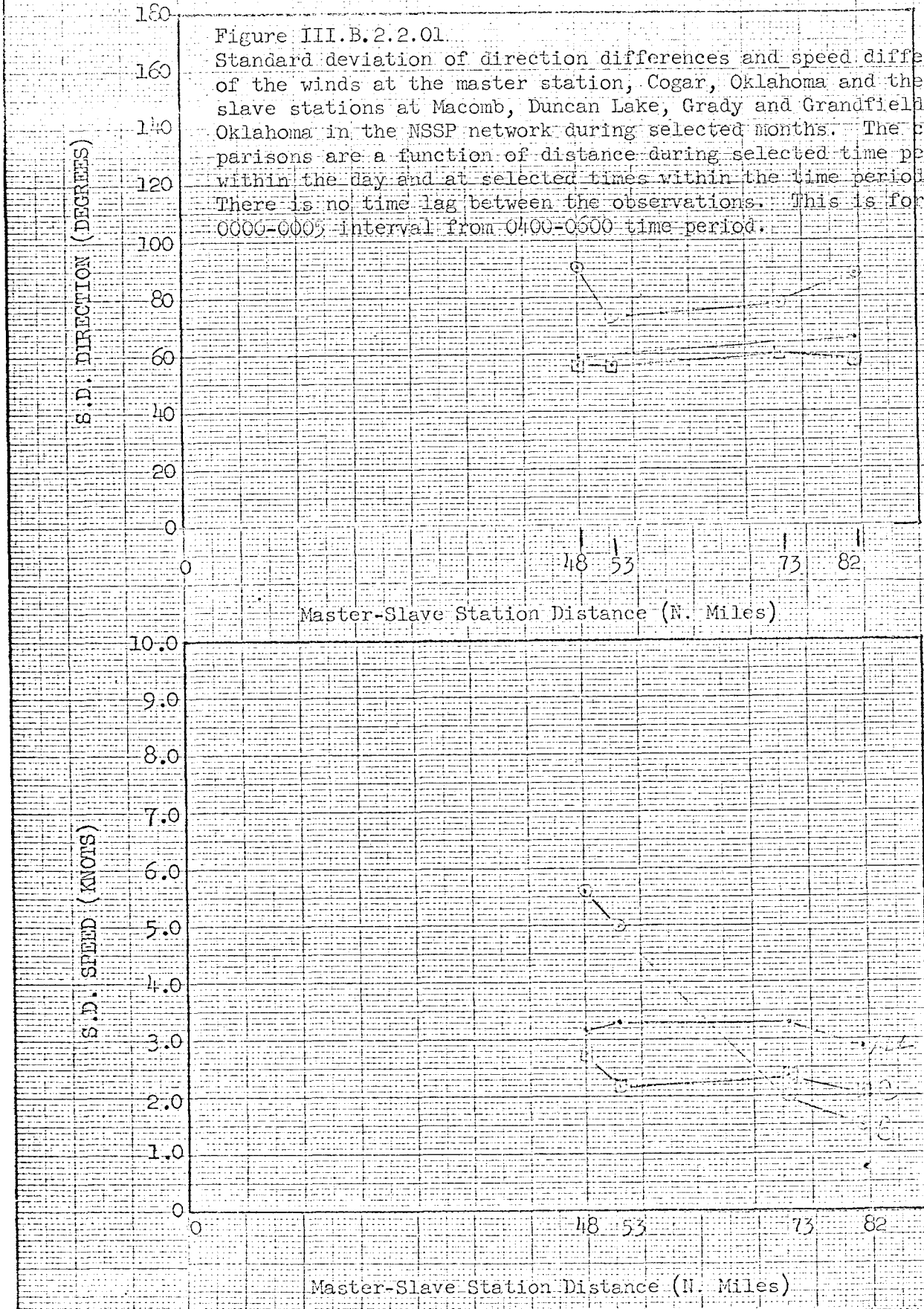
OKLAHOMA BETA NETWORK

Figure III.B.2.2.01
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0000-0005 interval from 0400-0600 time period.



TIME PERIOD 12 TIME GROUP 01 LAG 00

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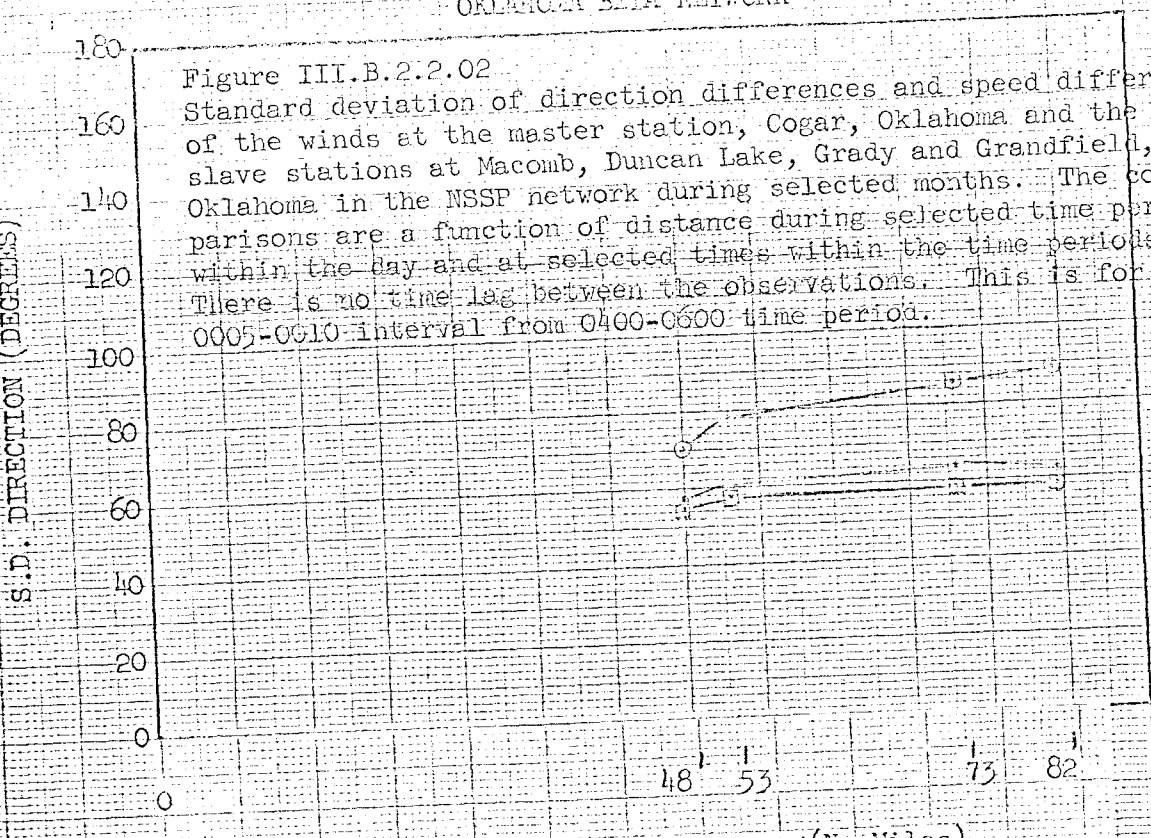
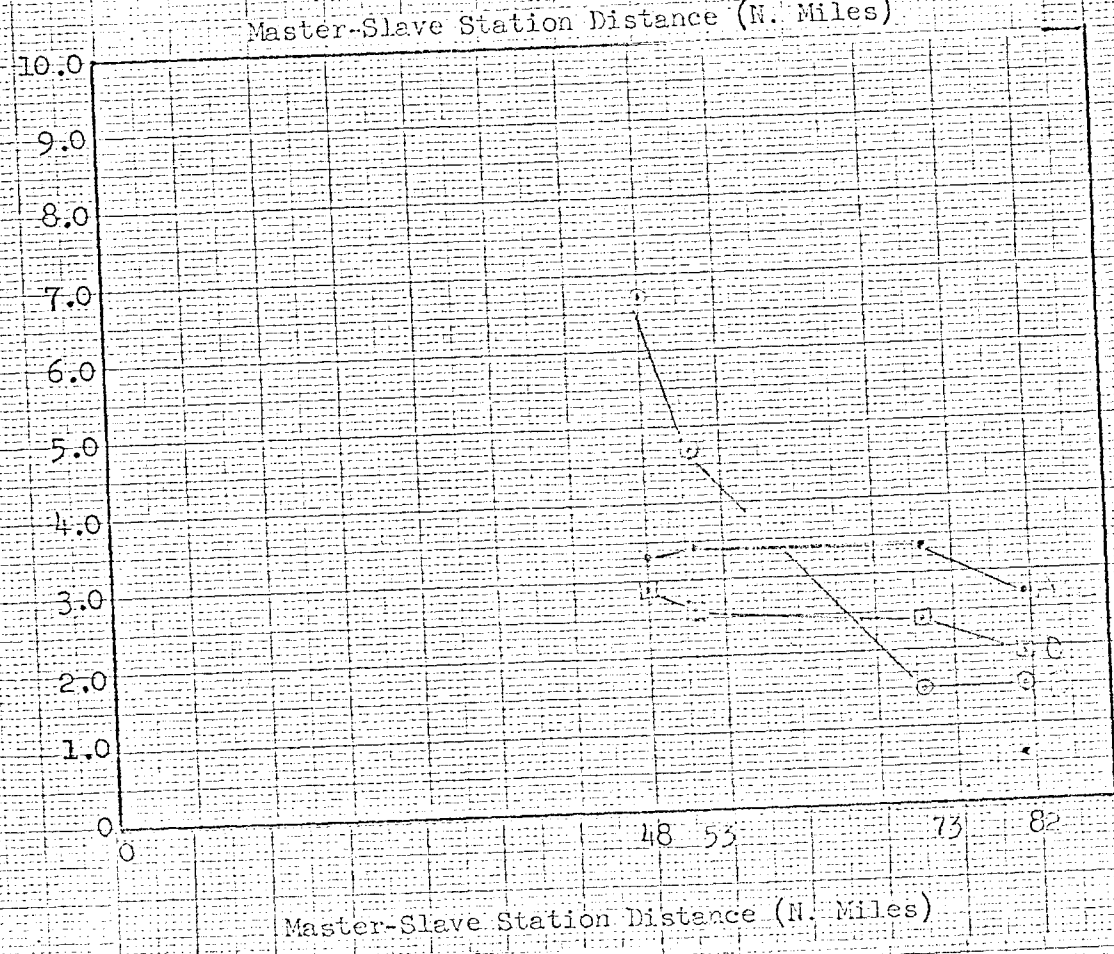
OKLAHOMA BETA NETWORK

Figure III.B.2.2.02
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0005-0010 interval from 0400-0600 time period.





TIME PERIOD _____ TIME GROUP _____ LAG 00

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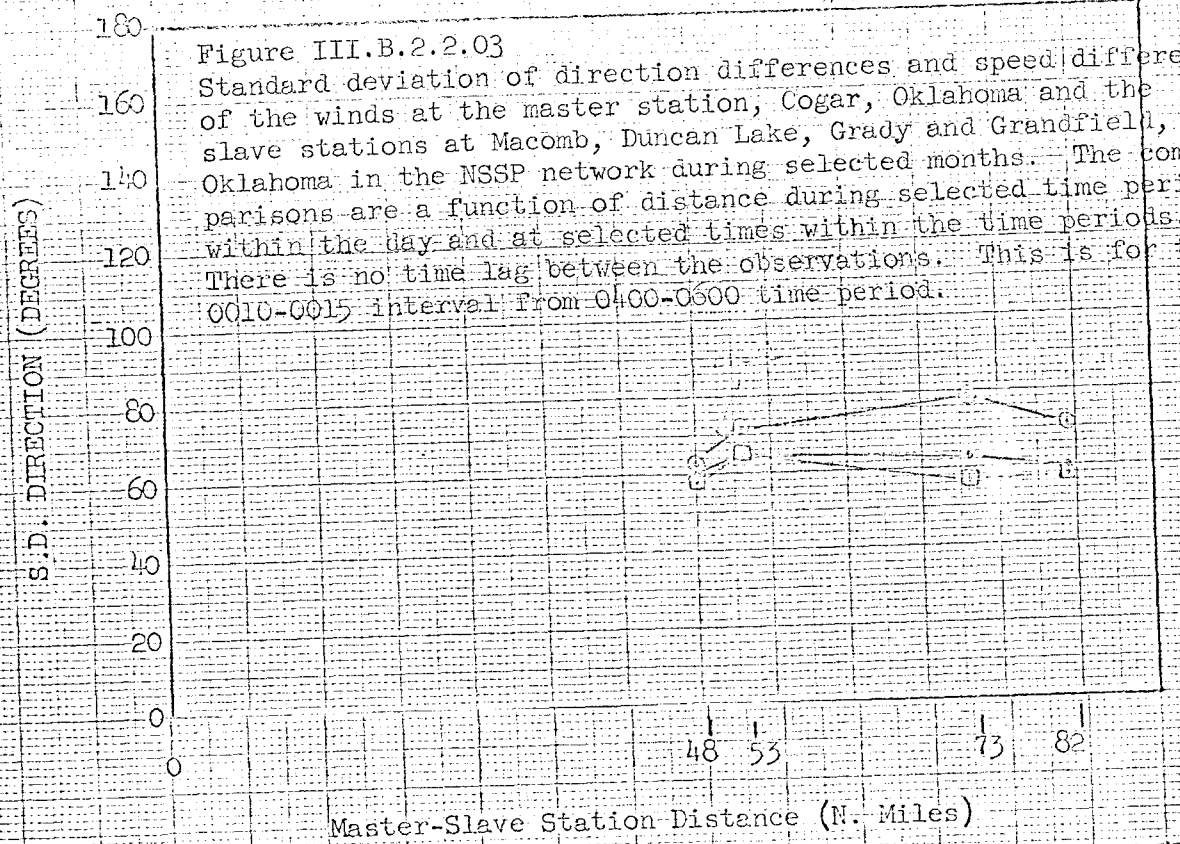
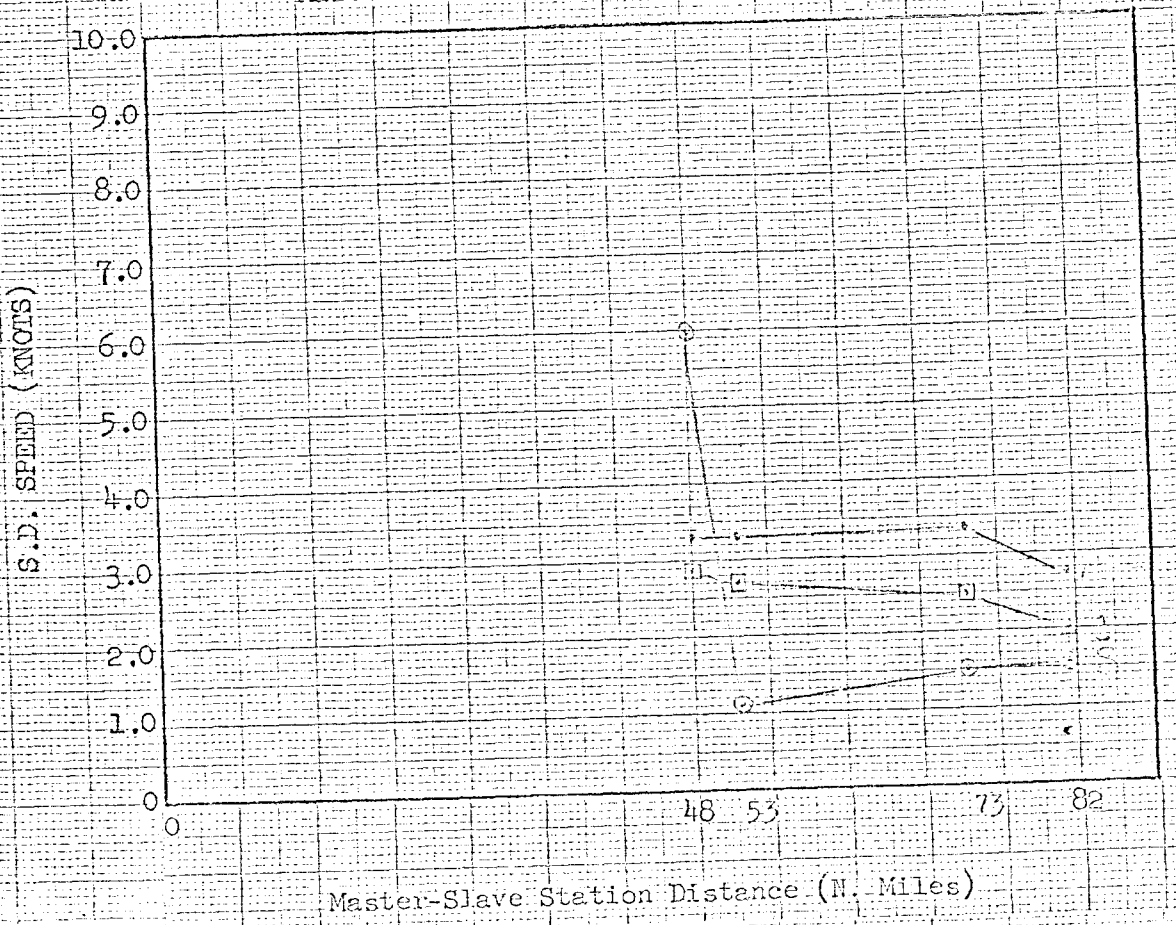
OKLAHOMA BETA NETWORK

Figure III.B.2.2.03
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0010-0015 interval from 0400-0600 time period.





TIME PERIOD 2 TIME GROUP 03 LAG 00

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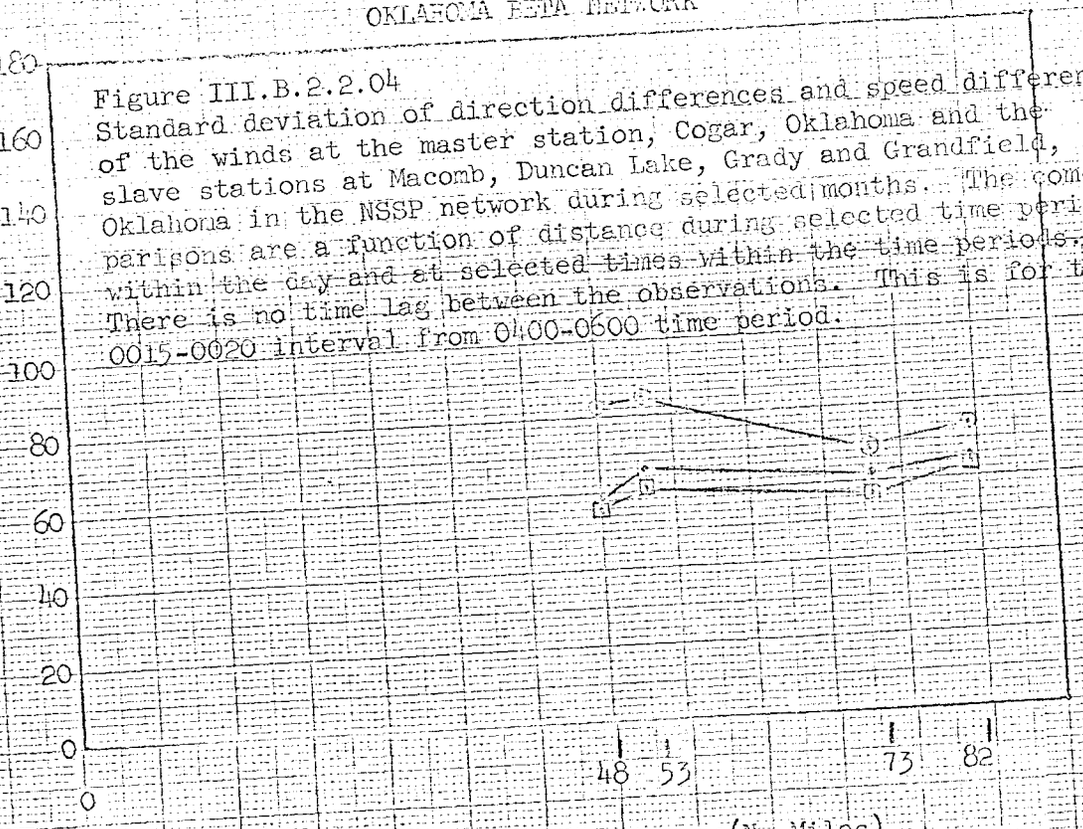
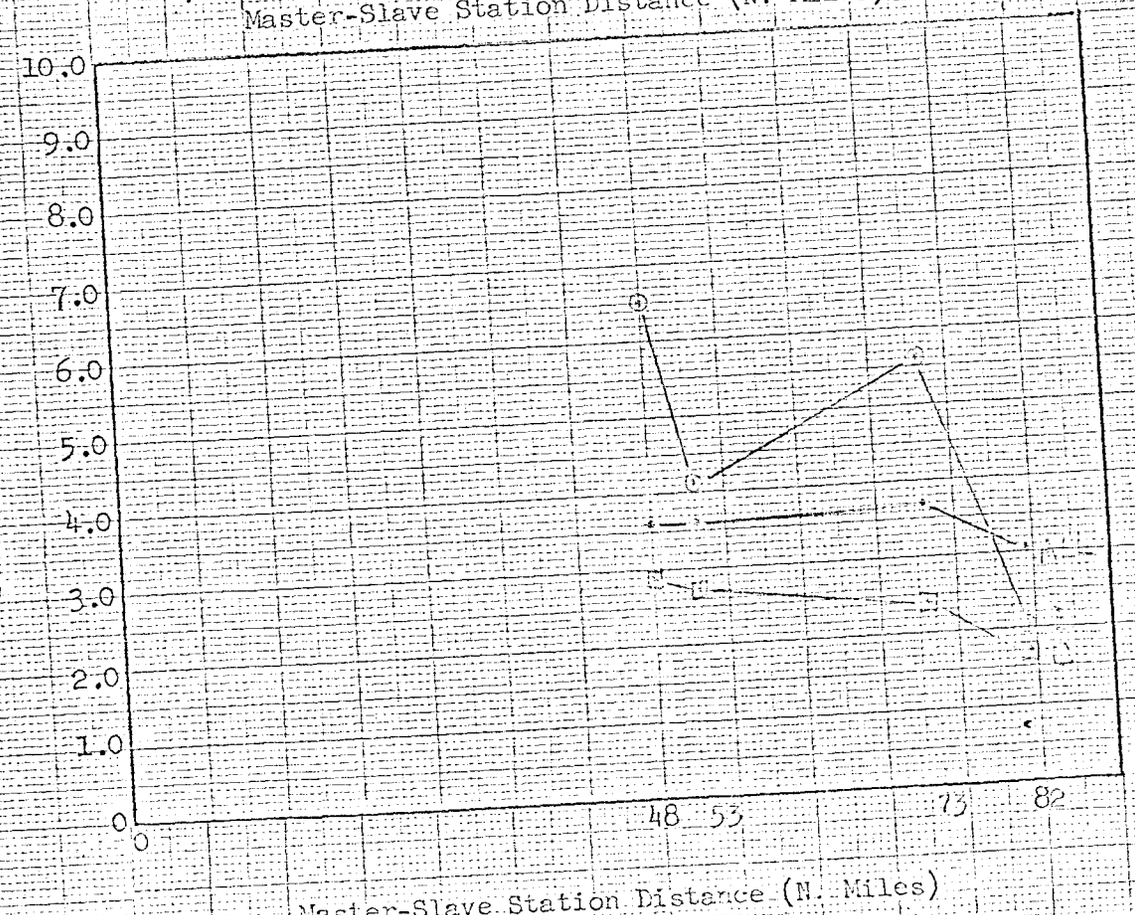
OKLAHOMA BETA NETWORK

Figure III.B.2.2.04
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0015-0020 interval from 0400-0600 time period.





TIME PERIOD 2 TIME GROUP 04 LAG 00

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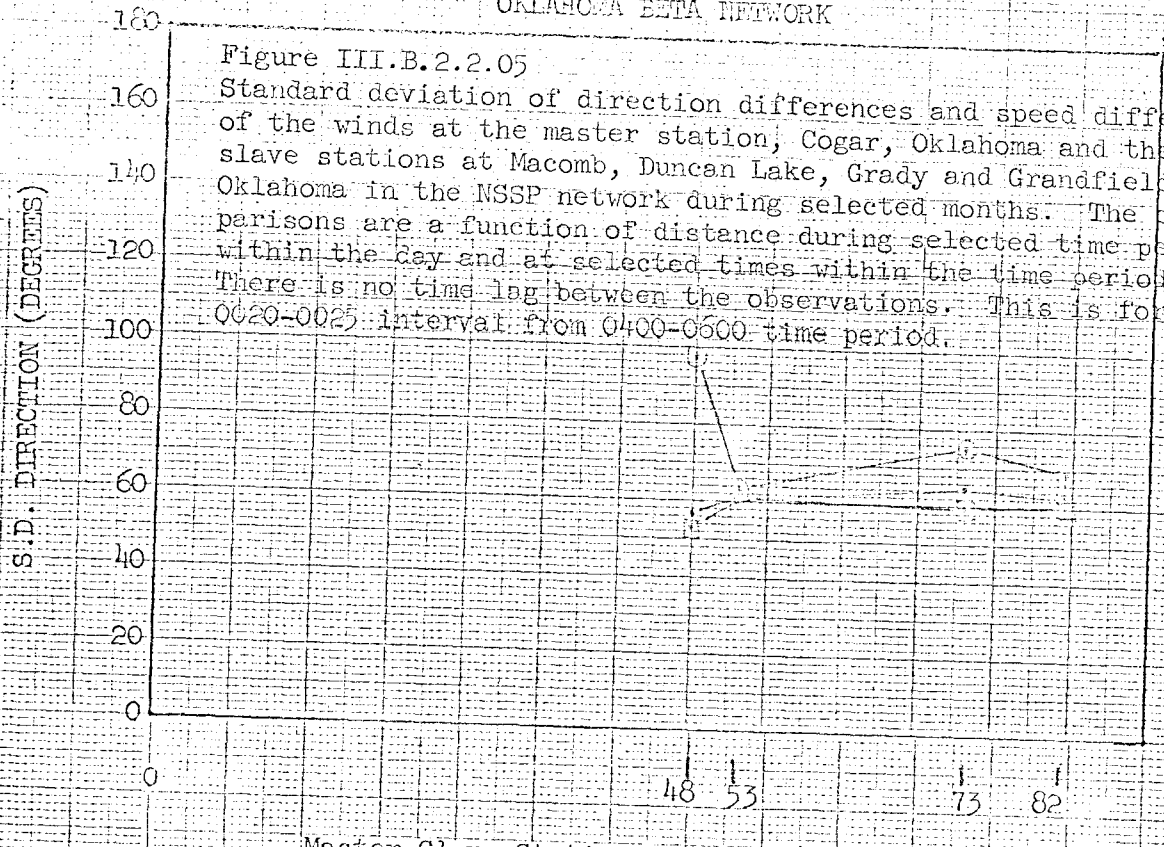
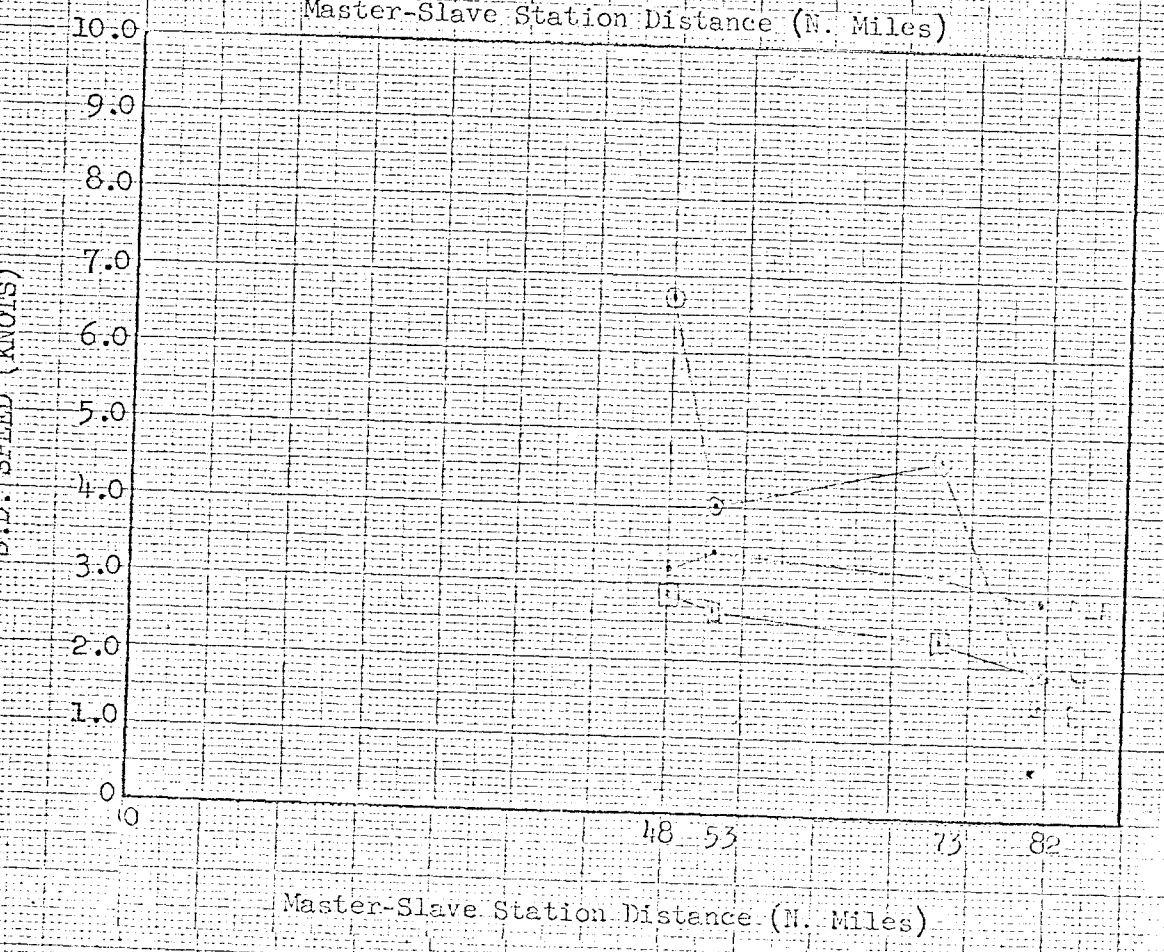
OKLAHOMA BETA NETWORK

Figure III.B.2.2.05
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0020-0025 interval from 0400-0600 time period.

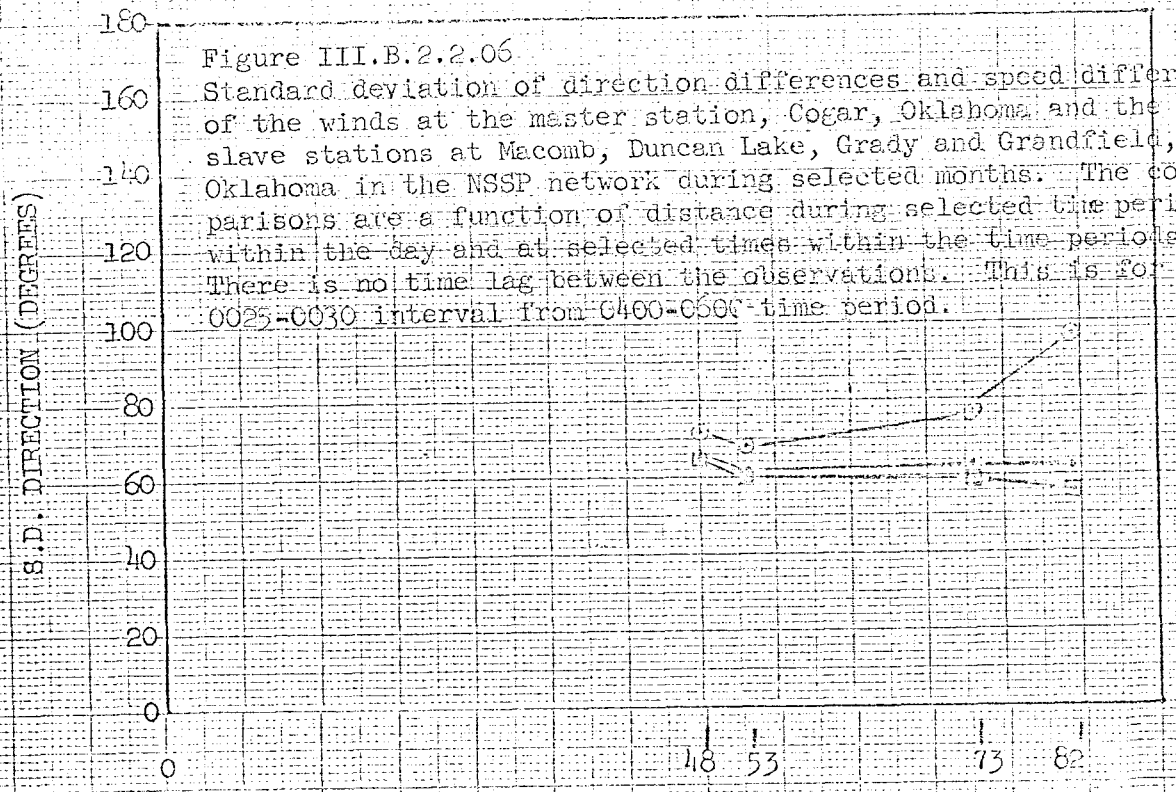


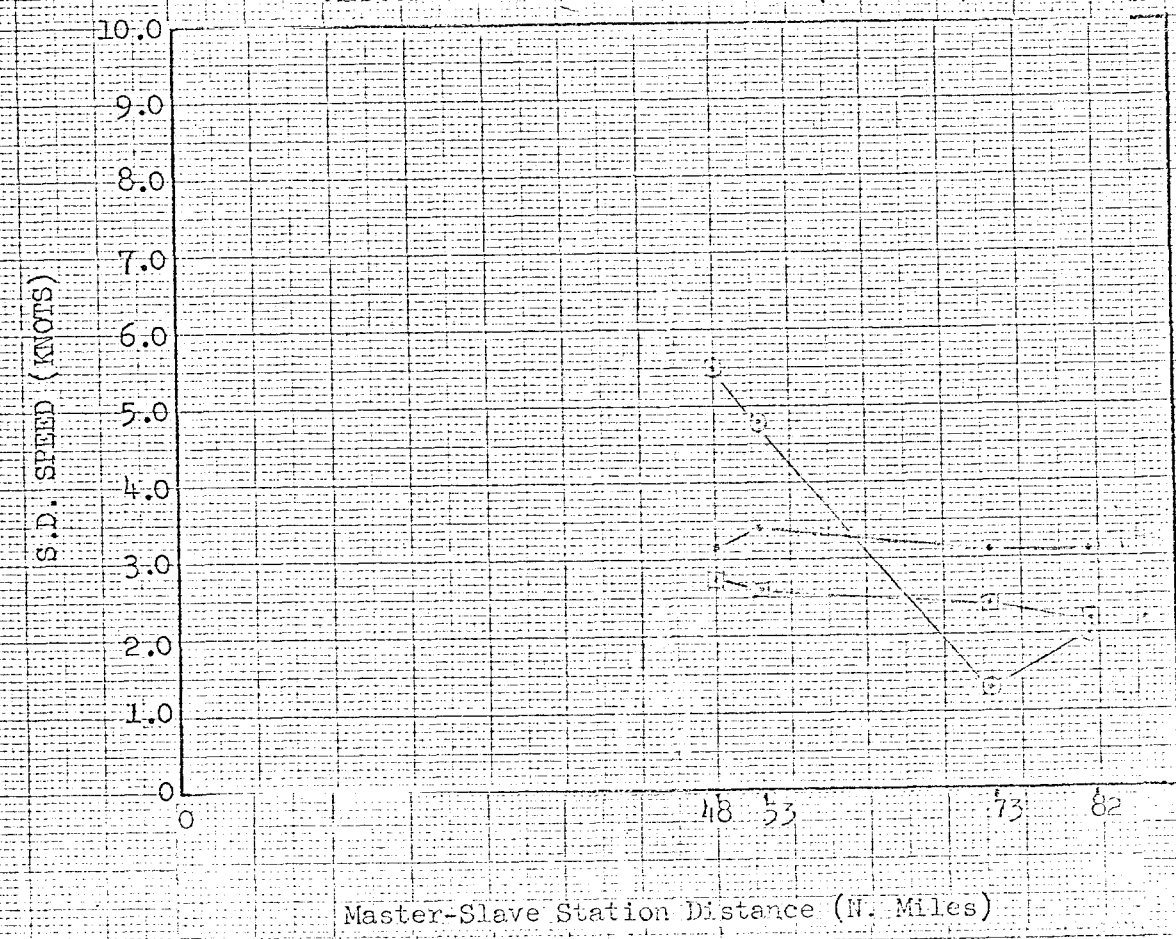


TIME PERIOD 2 TIME GROUP 05 LAG 00

OKLAHOMA BETA NETWORK

Figure III.B.2.2.06
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0025-0030 interval from 0400-0500 time period.





TIME PERIOD _____ TIME GROUP _____ LAG 00

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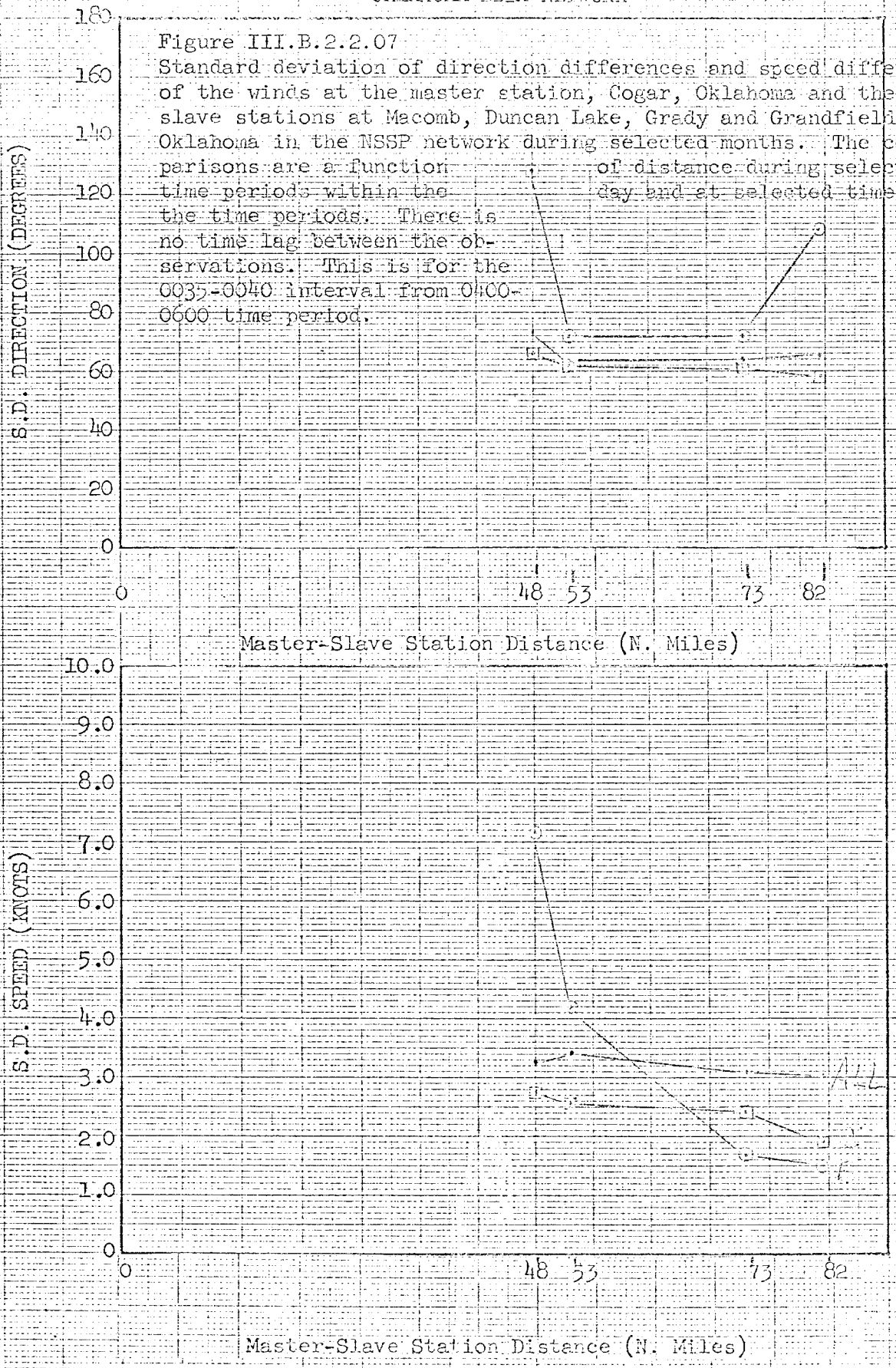
OKLAHOMA BETA NETWORK

Figure III.B.2.2.07
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0035-0040 interval from 0400-0600 time period.



TIME PERIOD 8 TIME GROUP 037 LAG 00

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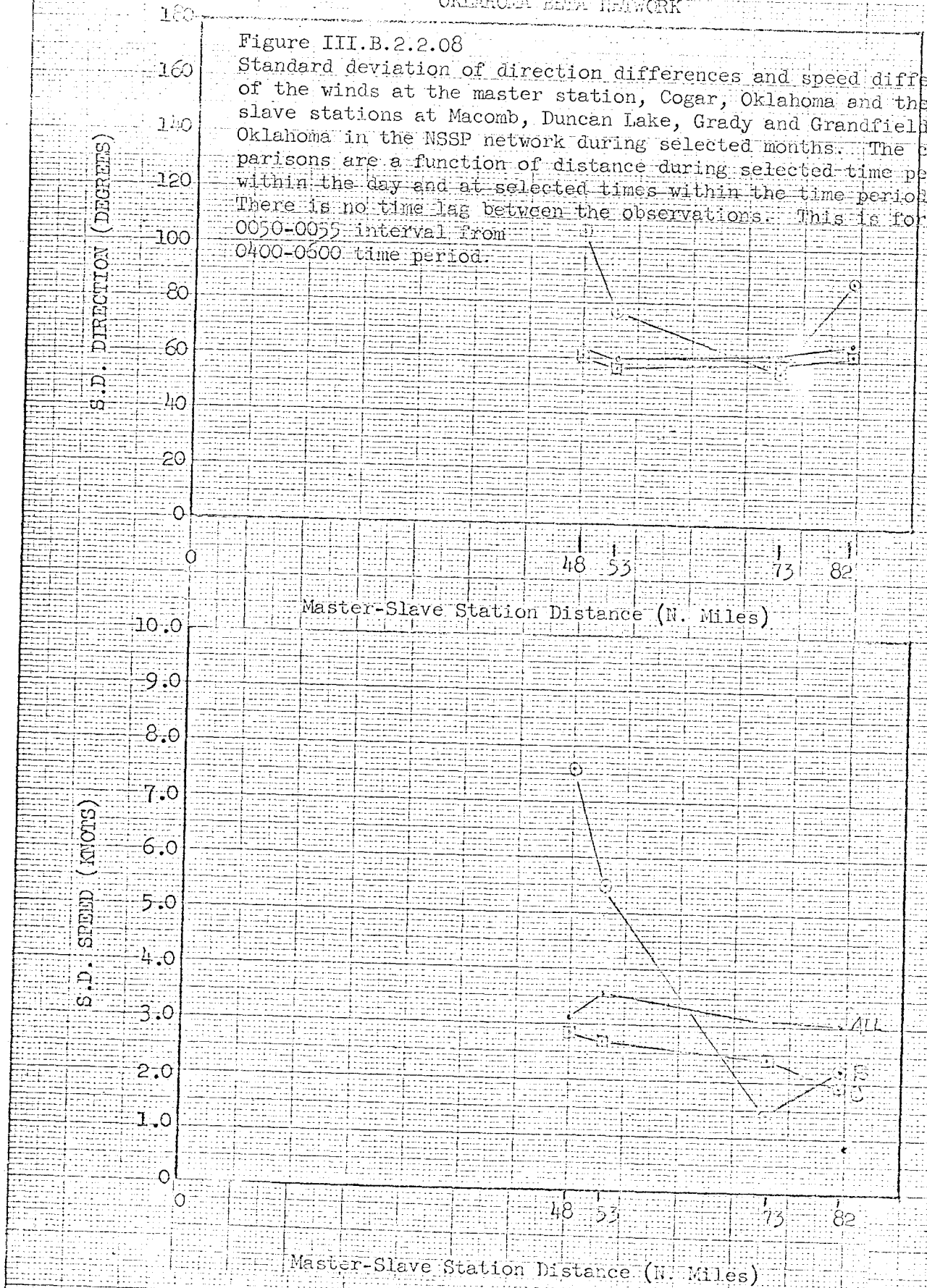
OKLAHOMA BETA NETWORK

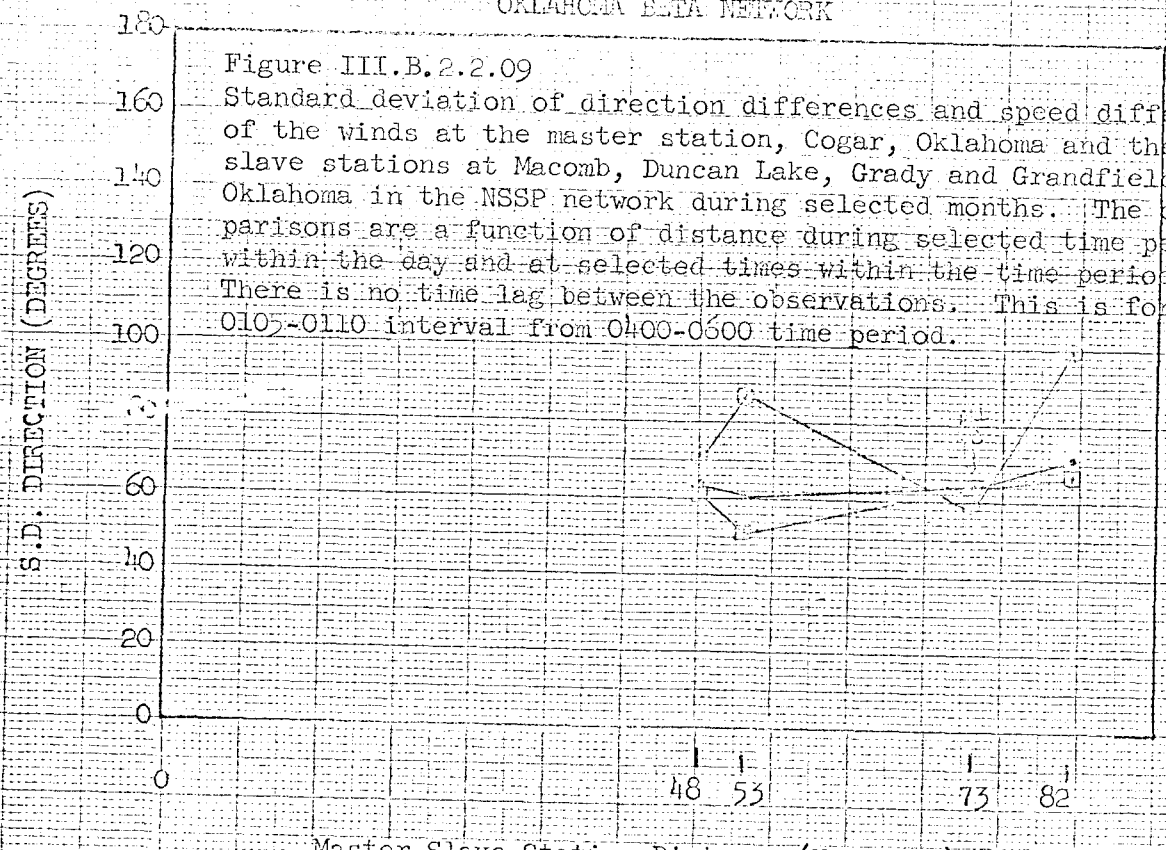
Figure III.B.2.2.08
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0050-0055 interval from 0400-0600 time period.

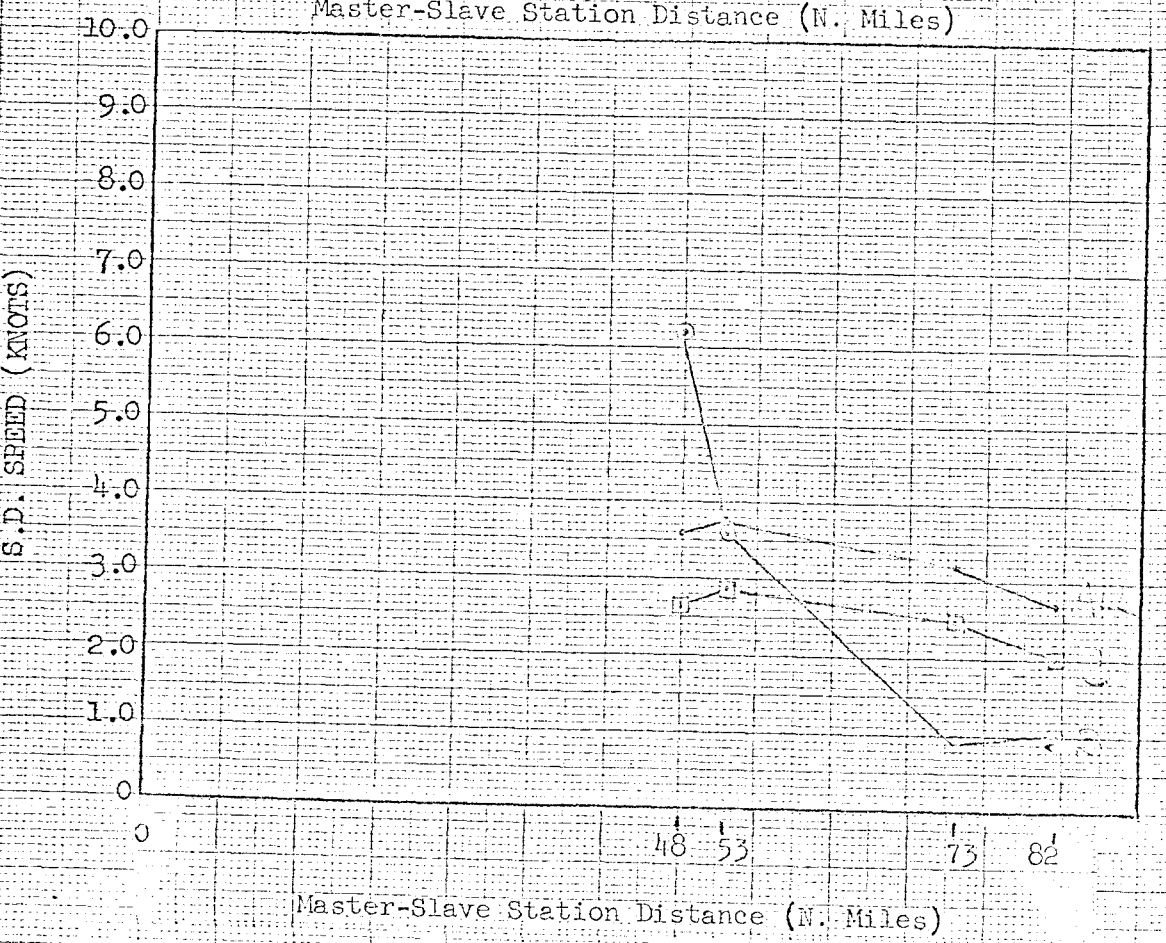


TIME PERIOD _____ TIME GROUP _____ LAG CO

OKLAHOMA BETA NETWORK

Figure III.B.2.2.09
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0105-0110 interval from 0400-0600 time period.

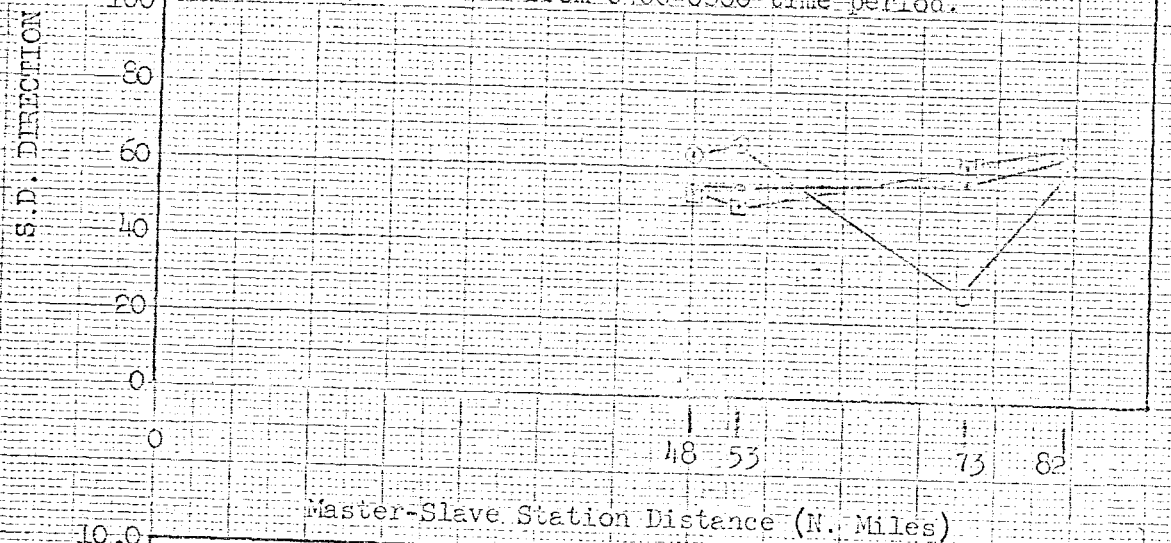


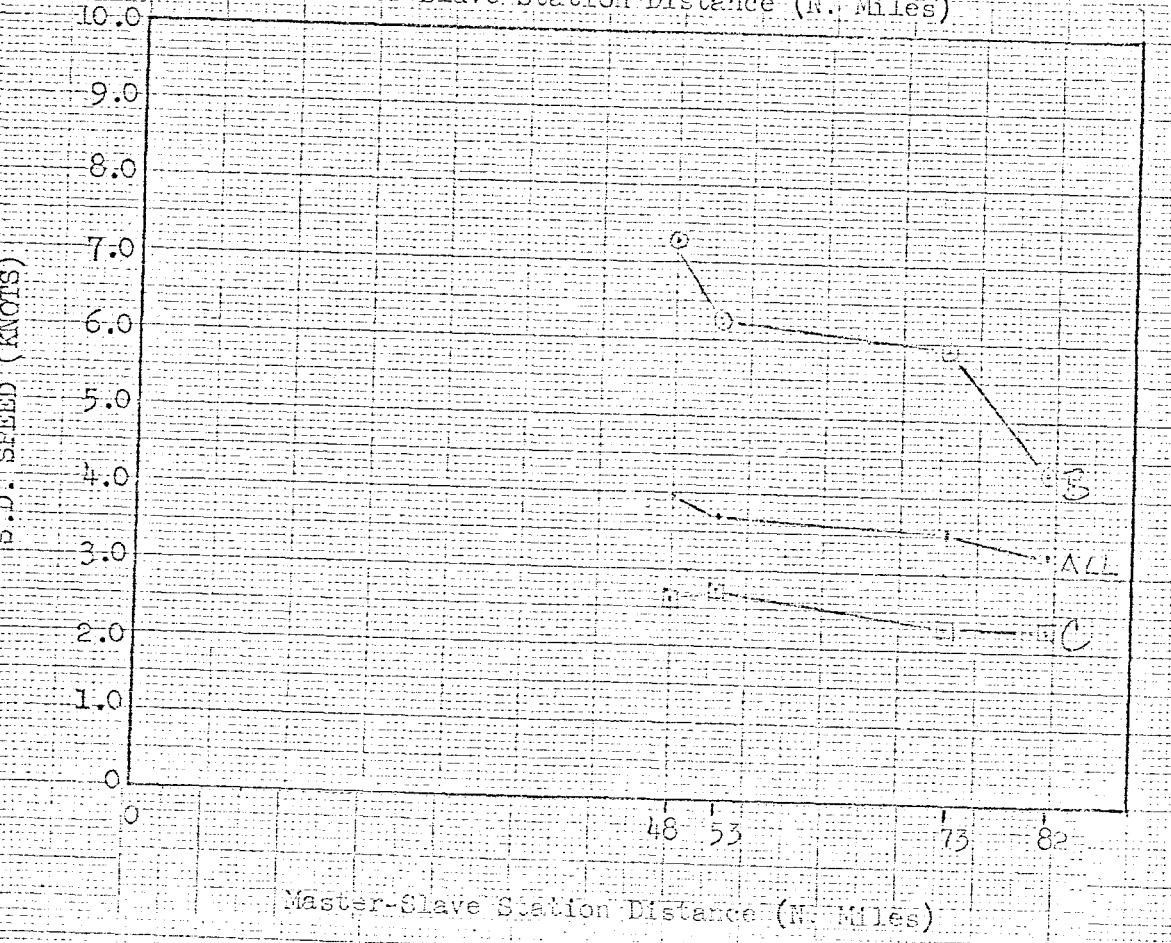


TIME PERIOD 2 TIME GROUP 07 LAG 00

OKLAHOMA RHA NETWORK

Figure III.B.2.2.10
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0120-0125 interval from 0400-0600 time period.

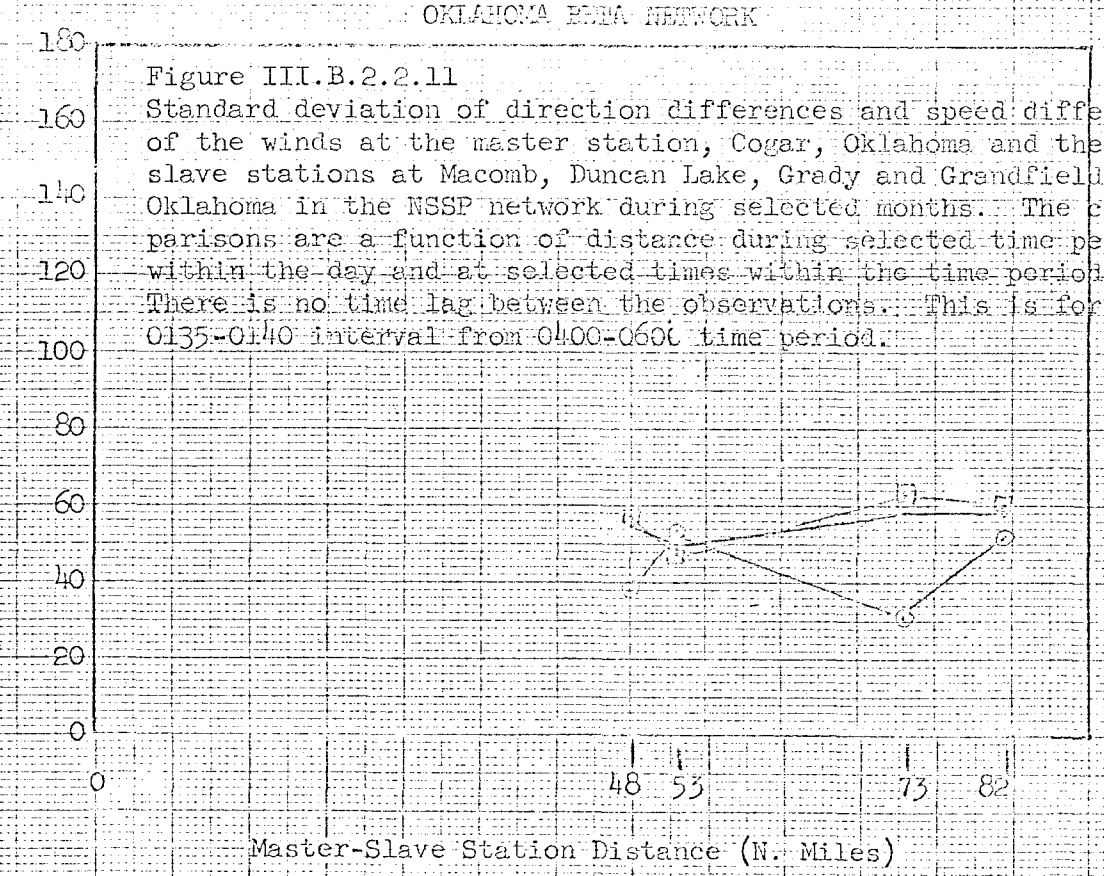


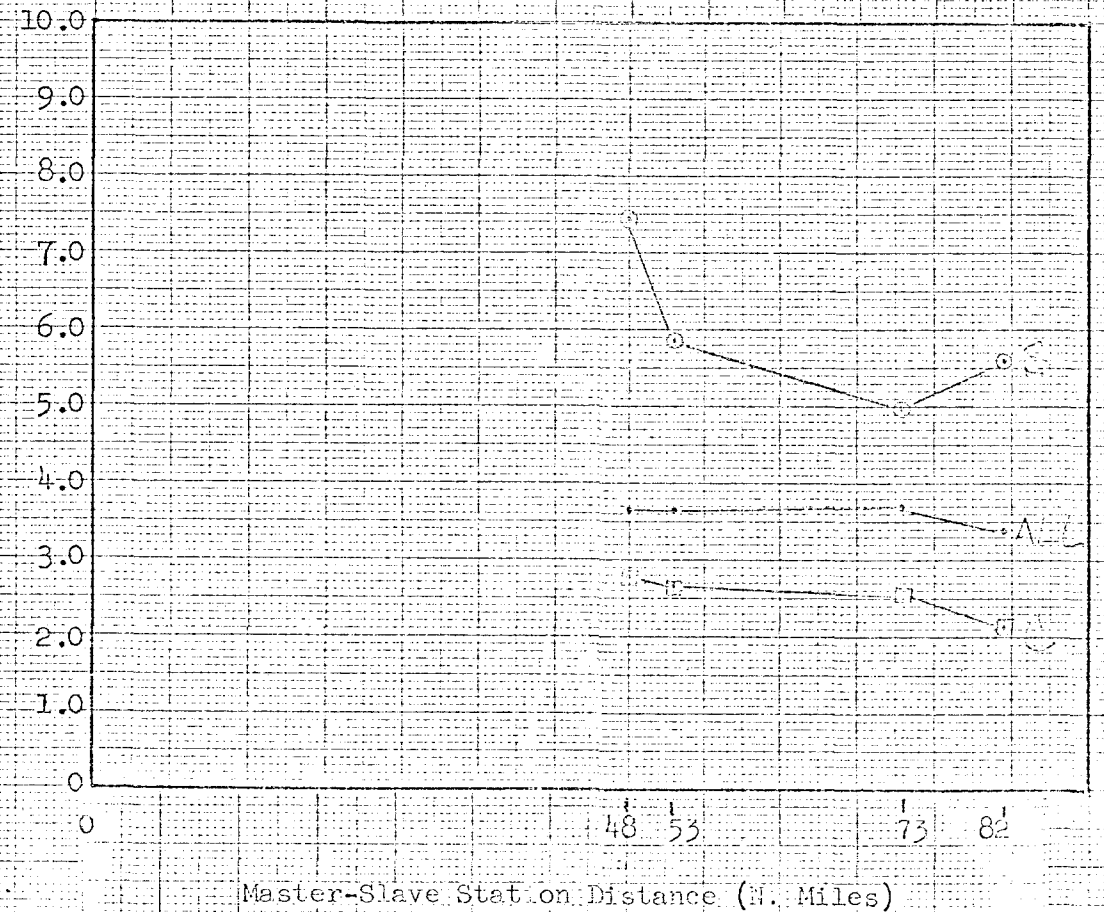


TIME PERIOD 2 TIME GROUP 10 LAG CO

OKLAHOMA RHEA NETWORK

Figure III.B.2.2.11
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0135-0140 interval from 0400-0600 time period.

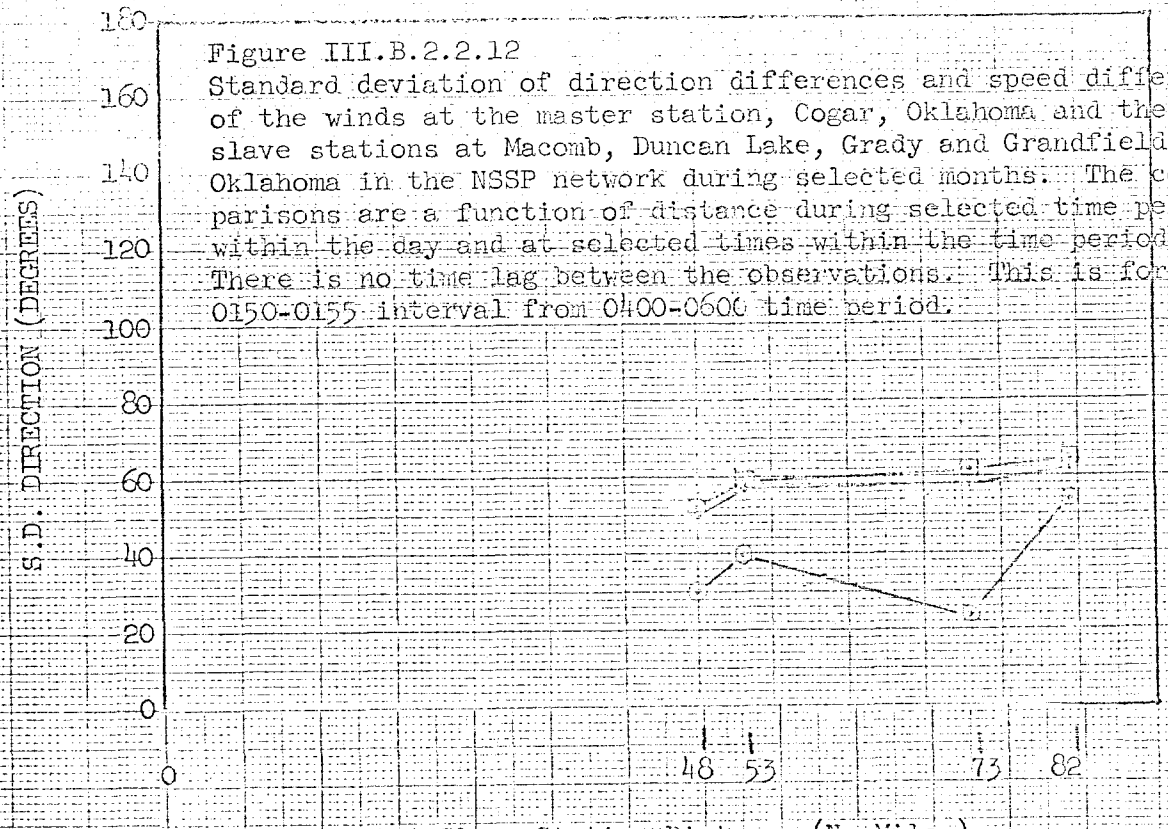


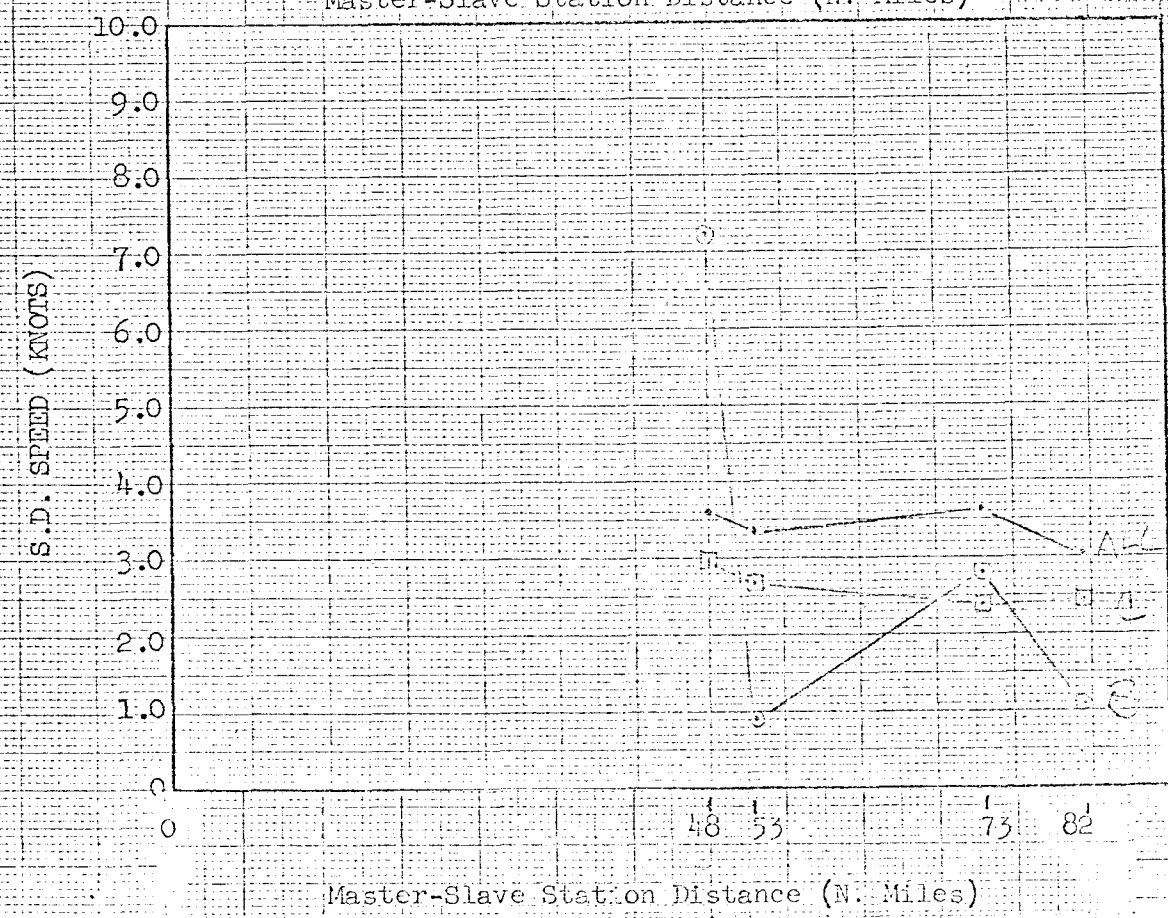


TIME PERIOD 2 TIME GROUP 11 LAG 00

OKLAHOMA FEBA NETWORK

Figure III.B.2.2.12
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0150-0155 interval from 0400-0600 time period.



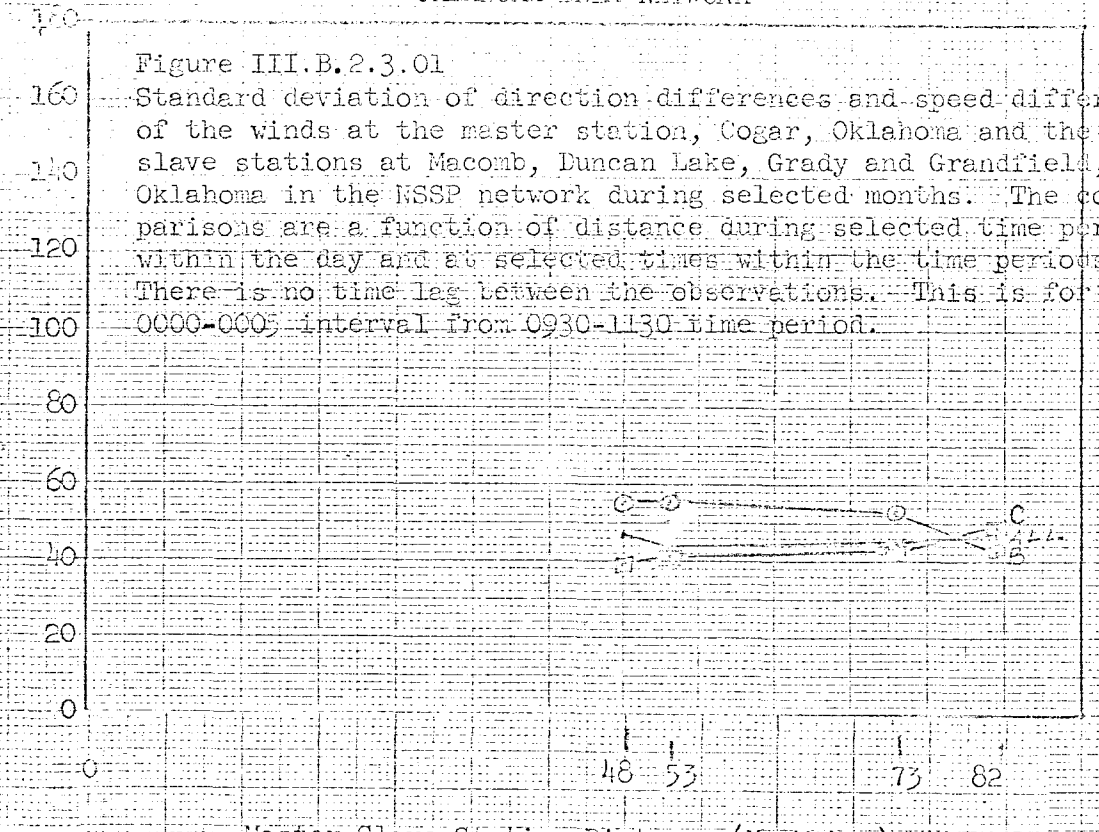


TIME PERIOD 4 TIME GROUP 12 LAG 00

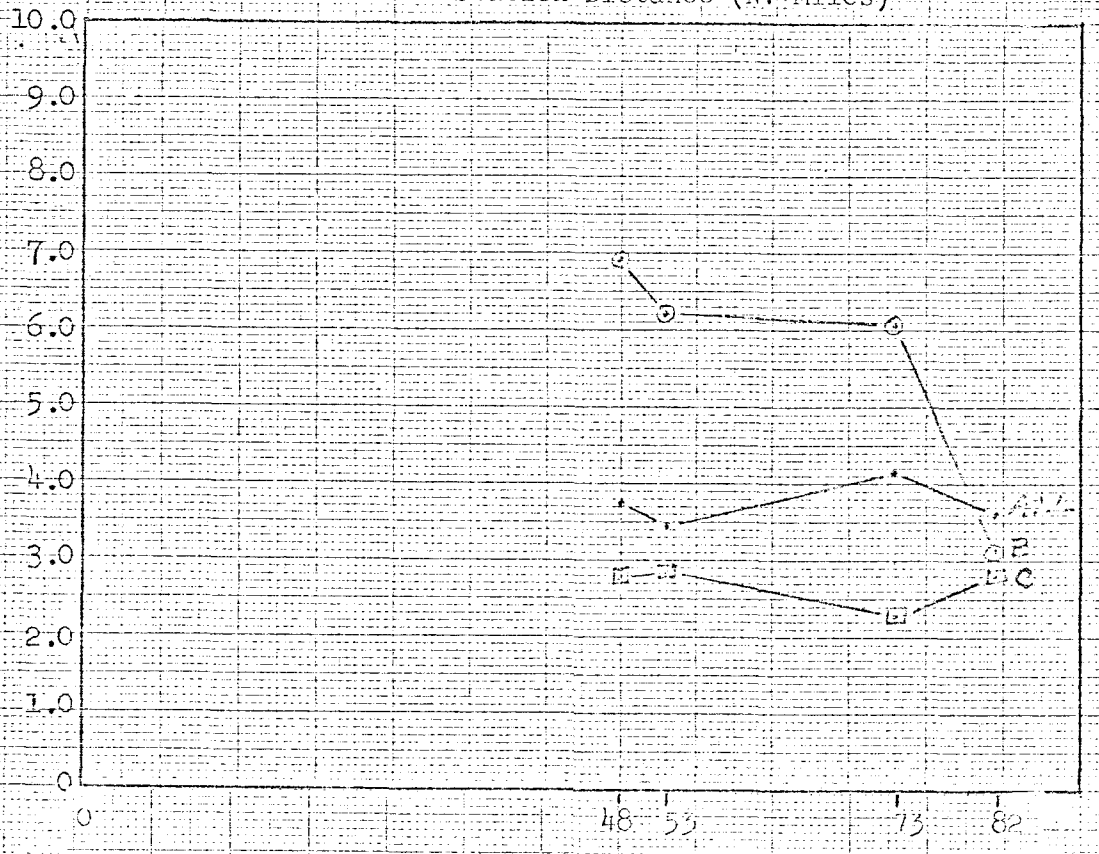
KEUFFEL & ESSER CO.

OKLAHOMA ERDA NETWORK

Figure III.B.2.3.01
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0000-0005 interval from 0930-1130 time period.



Master-Slave Station Distance (N. Miles)

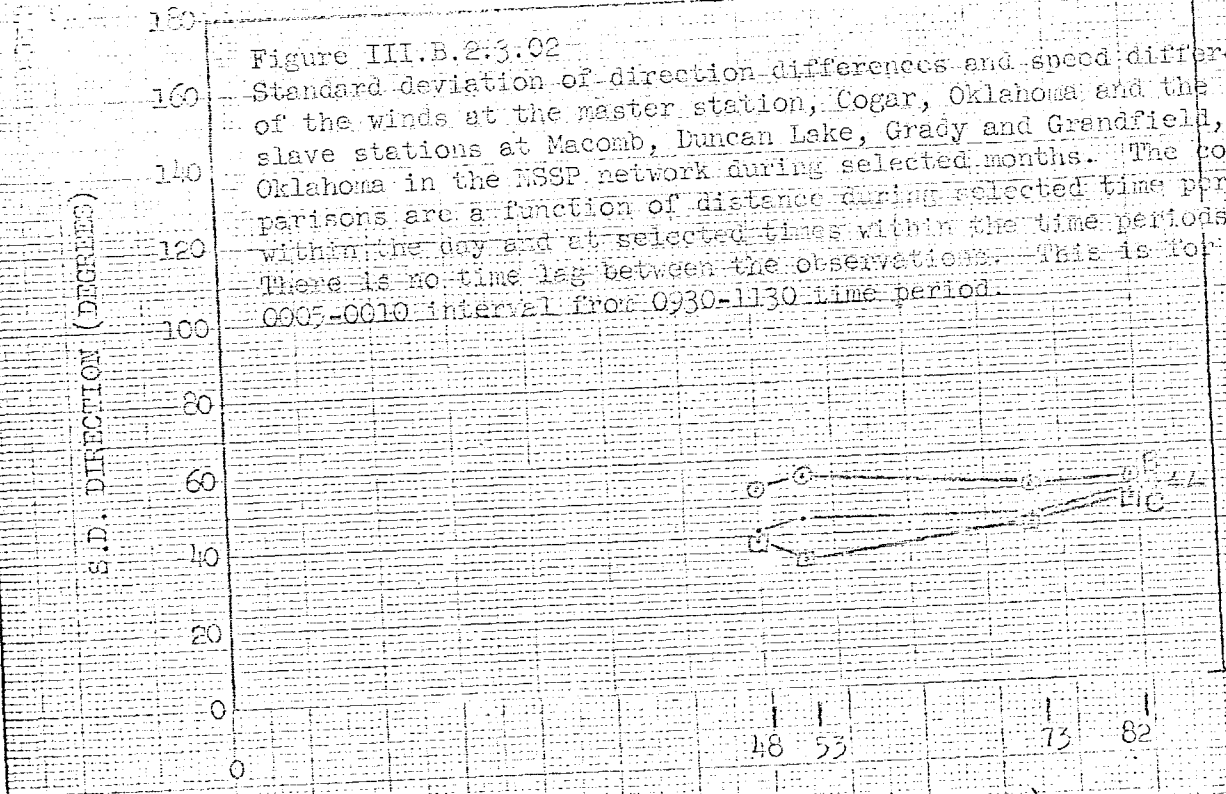


Master-Slave Station Distance (N. Miles)

TIME PERIOD _____ TIME GROUP _____ LAG 00

OKLAHOMA SBEA NETWORK

Figure III.B.2.3.02
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0005-0010 interval from 0930-1130 time period.

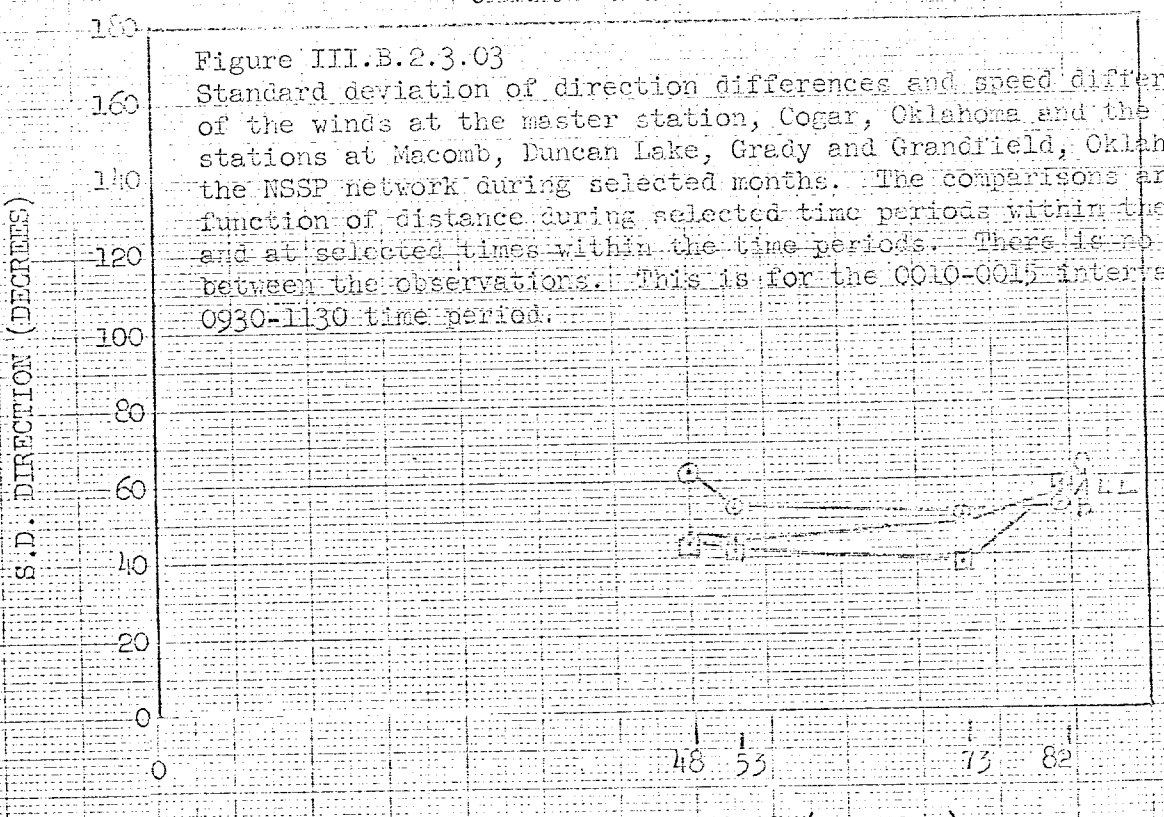


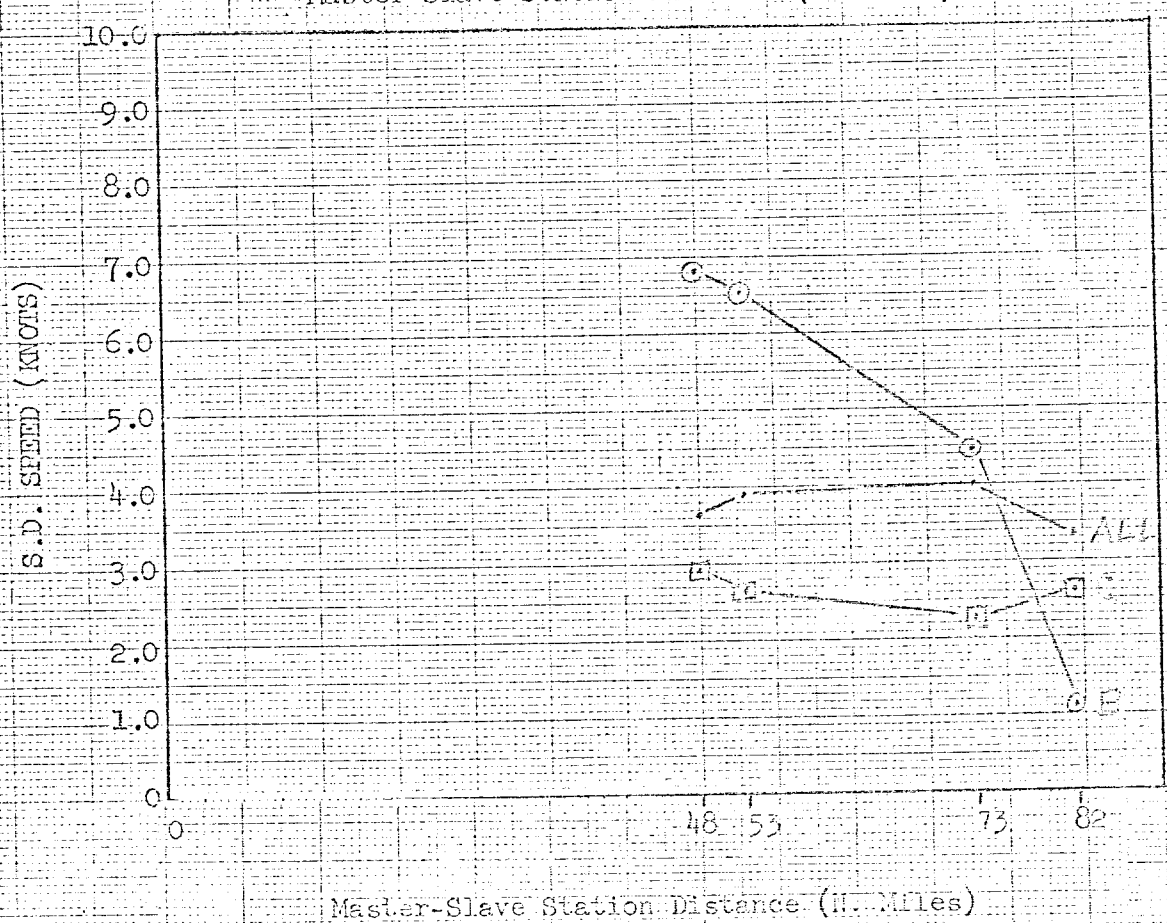
TIME PERIOD ____ TIME GROUP ____ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.3.03
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0010-0015 interval from 0930-1130 time period.

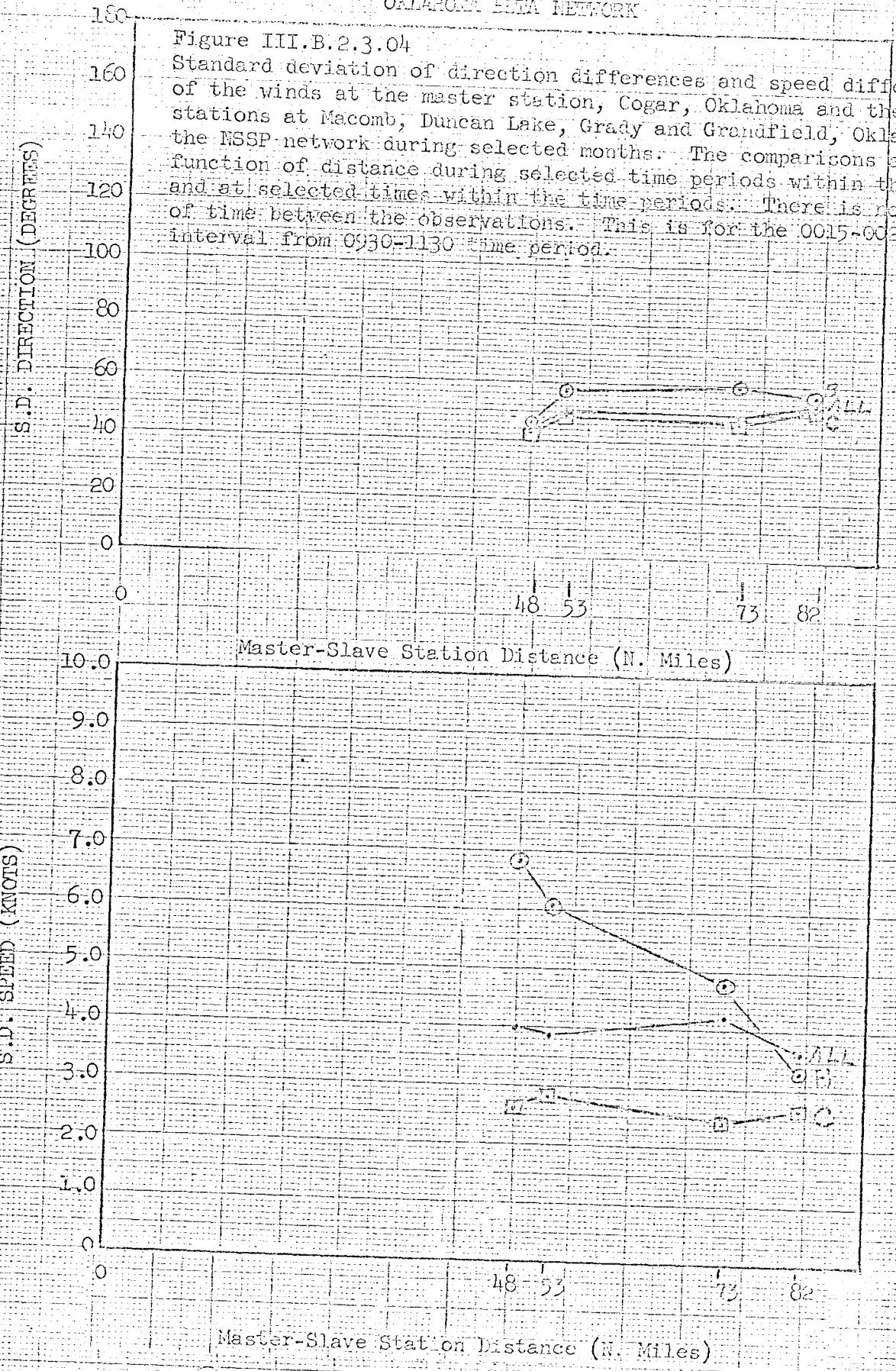




TIME PERIOD 3 TIME GROUP 03 LAG 00

OKLAHOMA ELDA NETWORK

Figure III.B.2.3.04
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no lag of time between the observations. This is for the 0015-0020 interval from 0930-1130 time period.

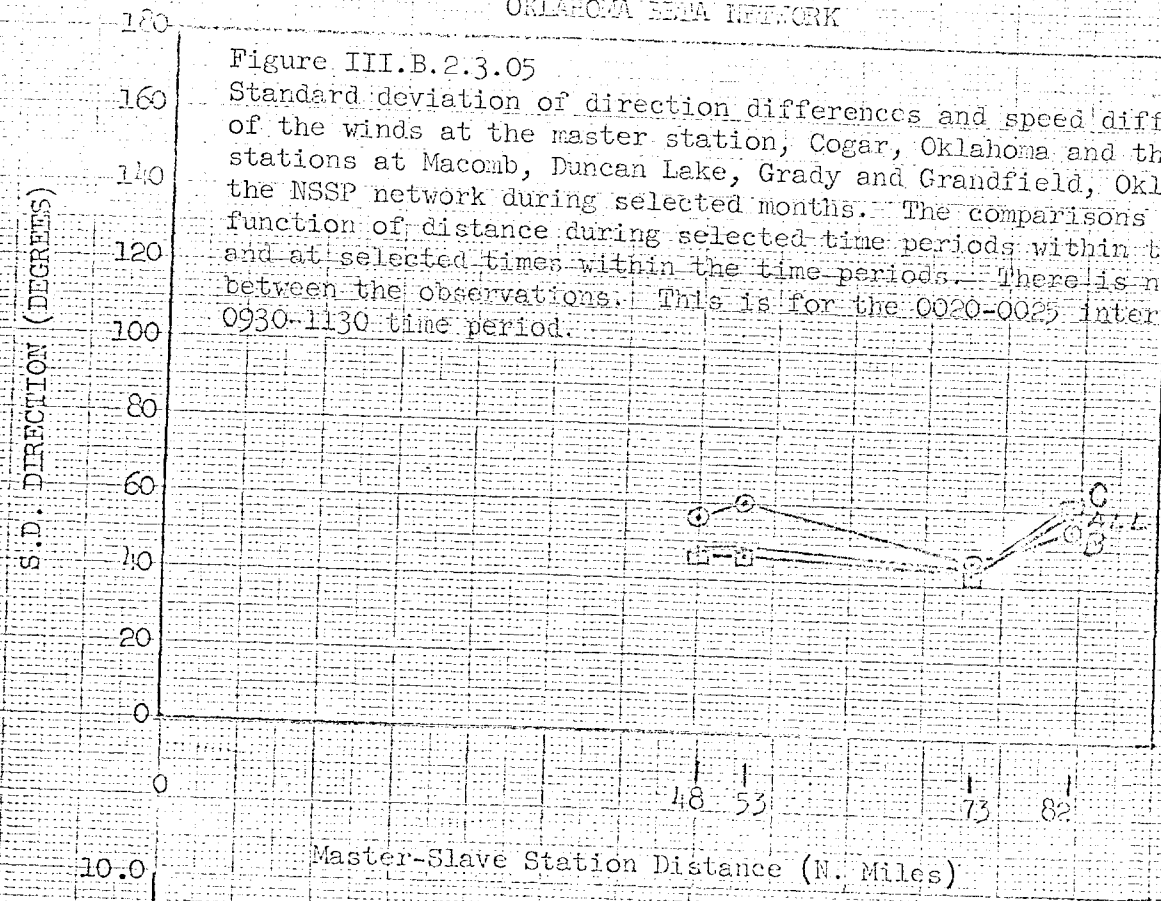


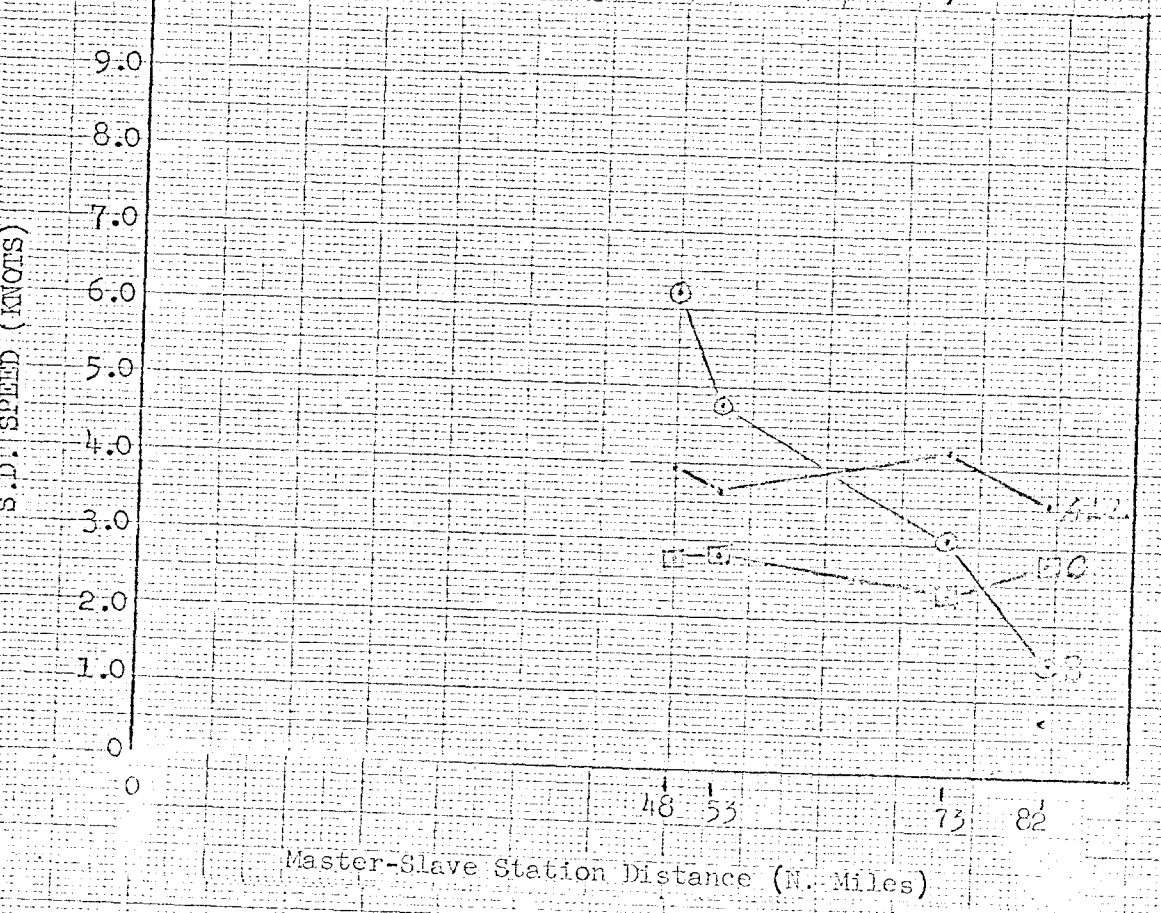
TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA SERA NETWORK

Figure III.B.2.3.05
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0020-0025 interval from 0930-1130 time period.

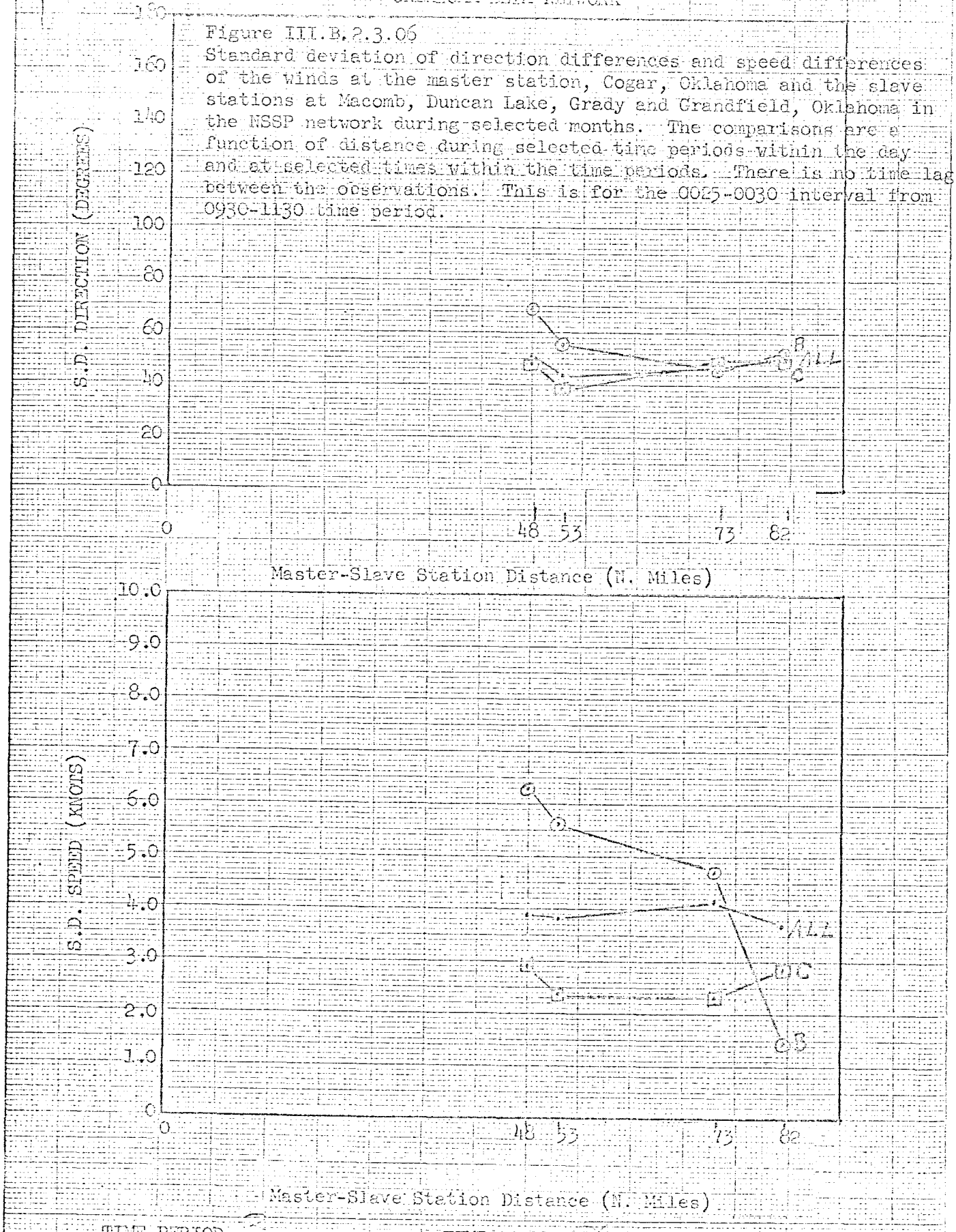




TIME PERIOD _____ TIME GROUP _____ LAG 00

OKLAHOMA BETA NETWORK

Figure III.B.2.3.06
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0025-0030 interval from 0930-1130 time period.

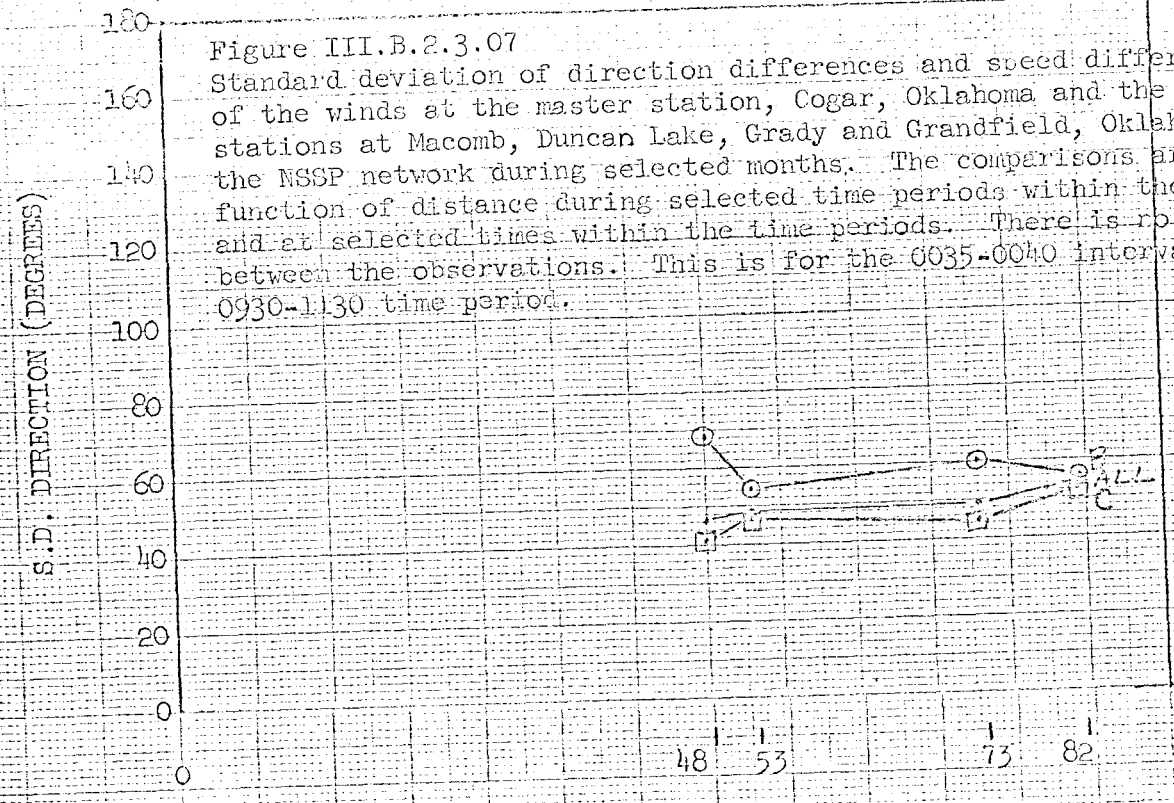


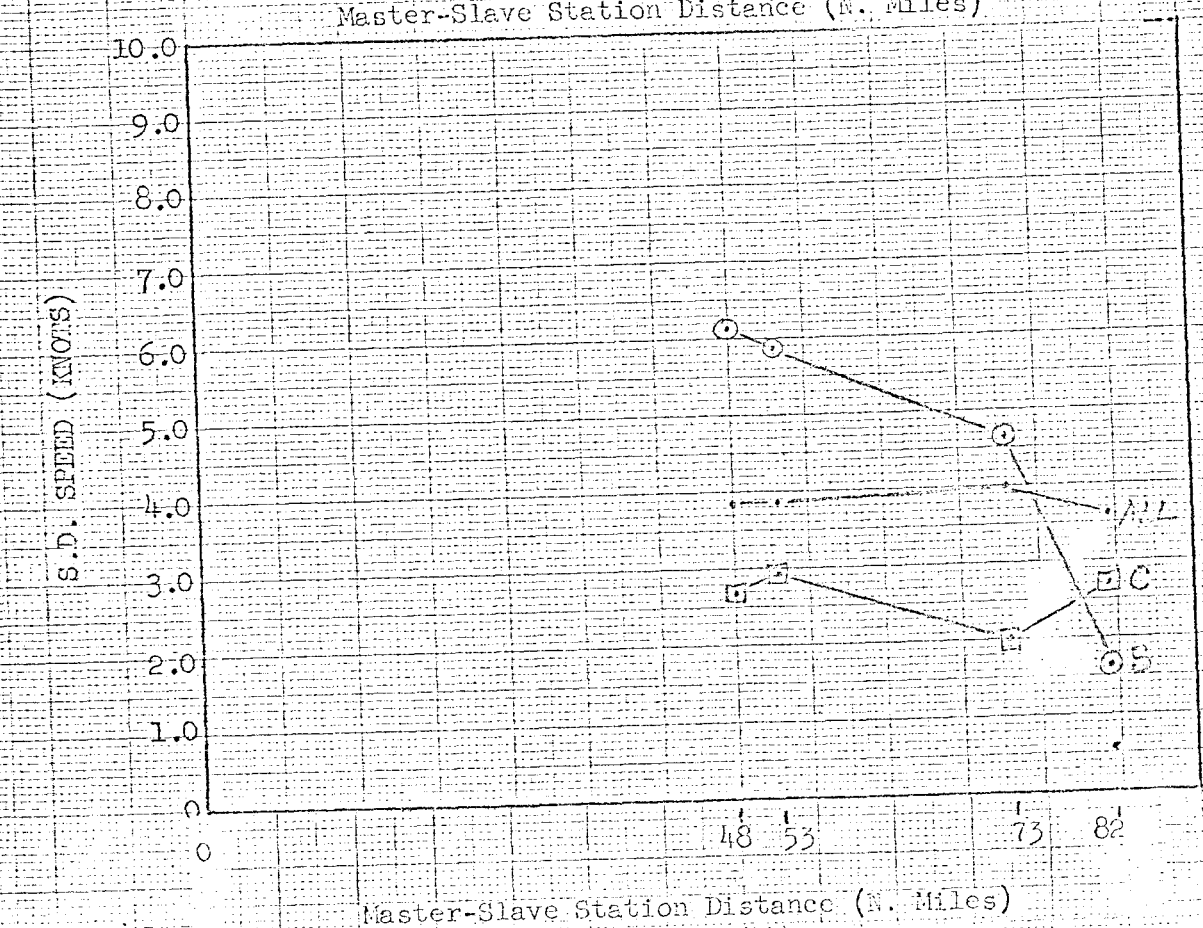
TIME PERIOD 3 TIME GROUP 1 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.3.07
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0035-0040 interval from 0930-1130 time period.



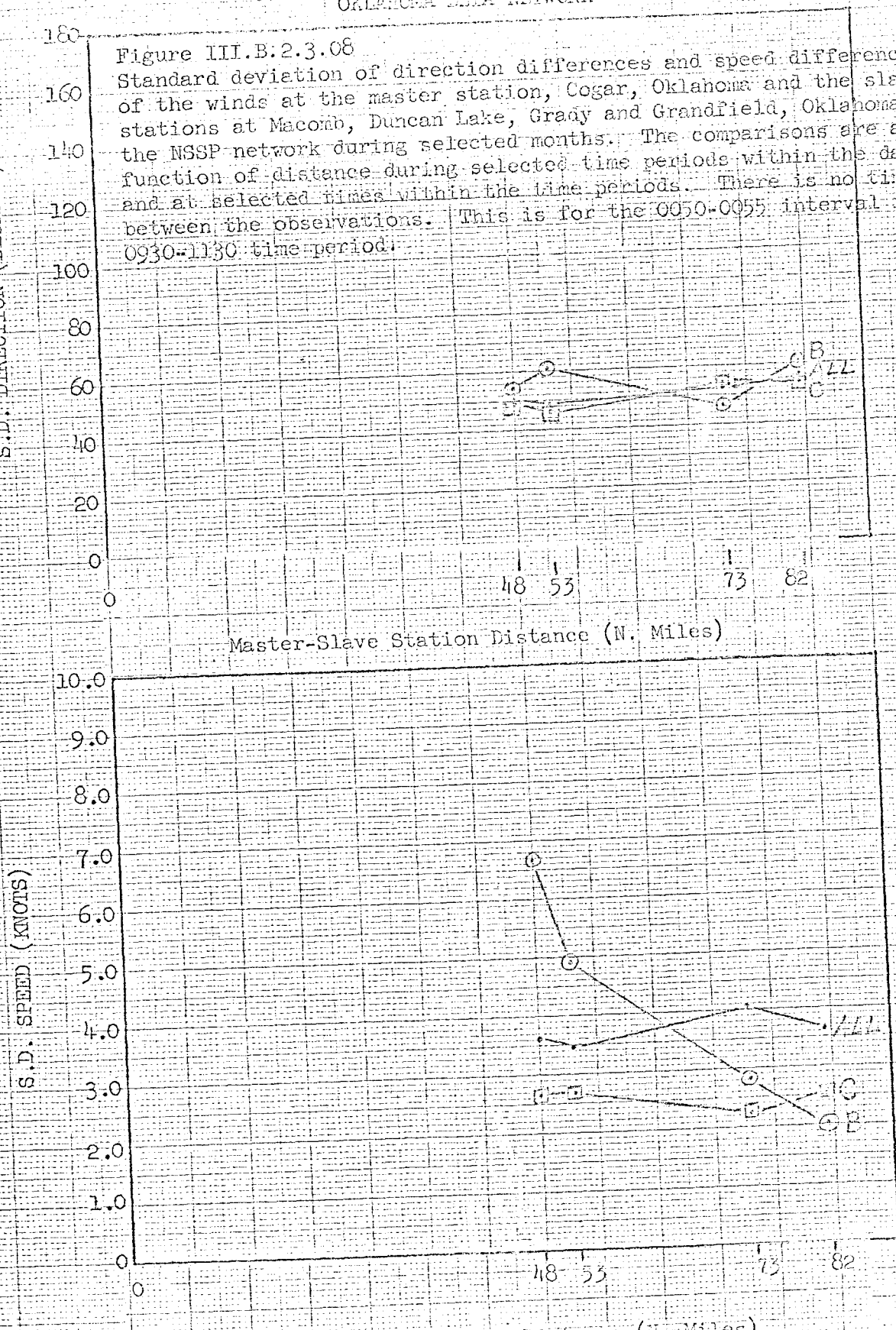


TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA ELDA NETWORK

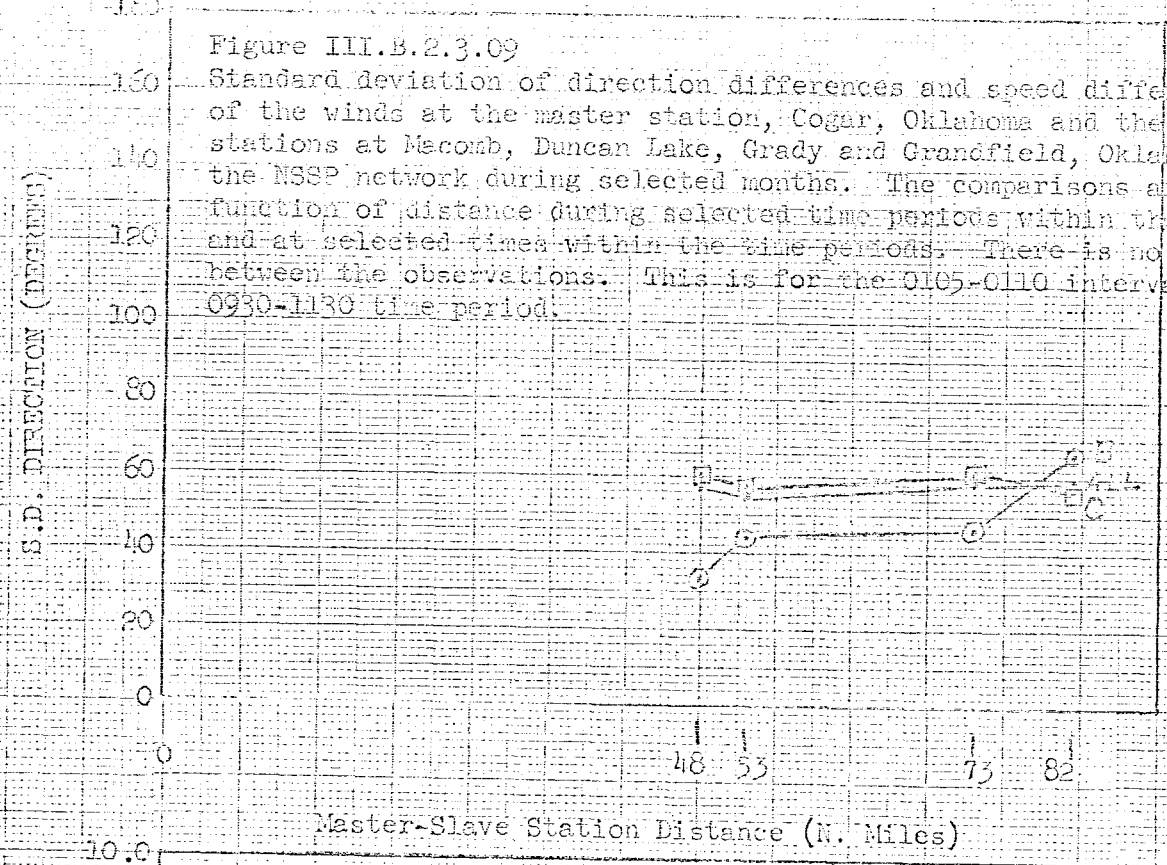
Figure III.B.2.3.08
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0050-0055 interval from 0930-1130 time period.

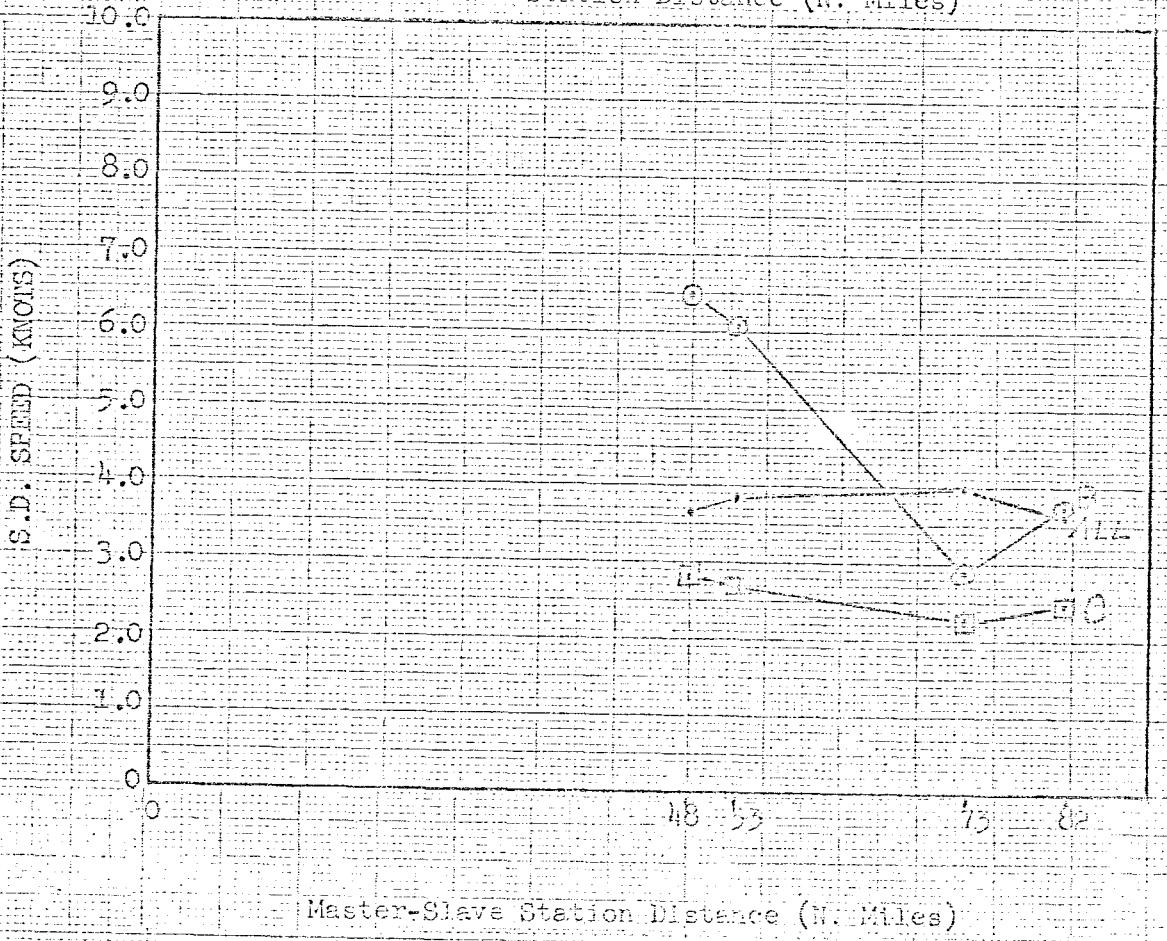


TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

Figure III.B.2.3.09
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0105-0110 interval from 0930-1130 time period.

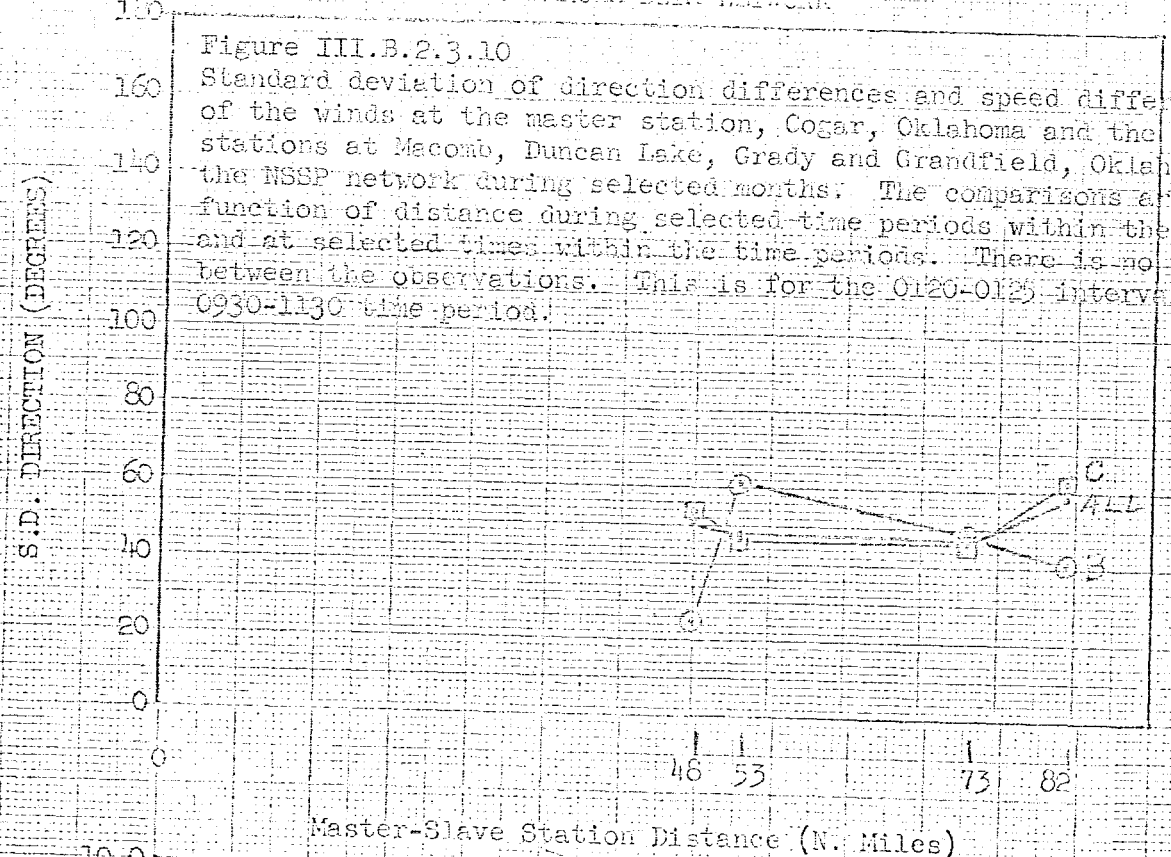


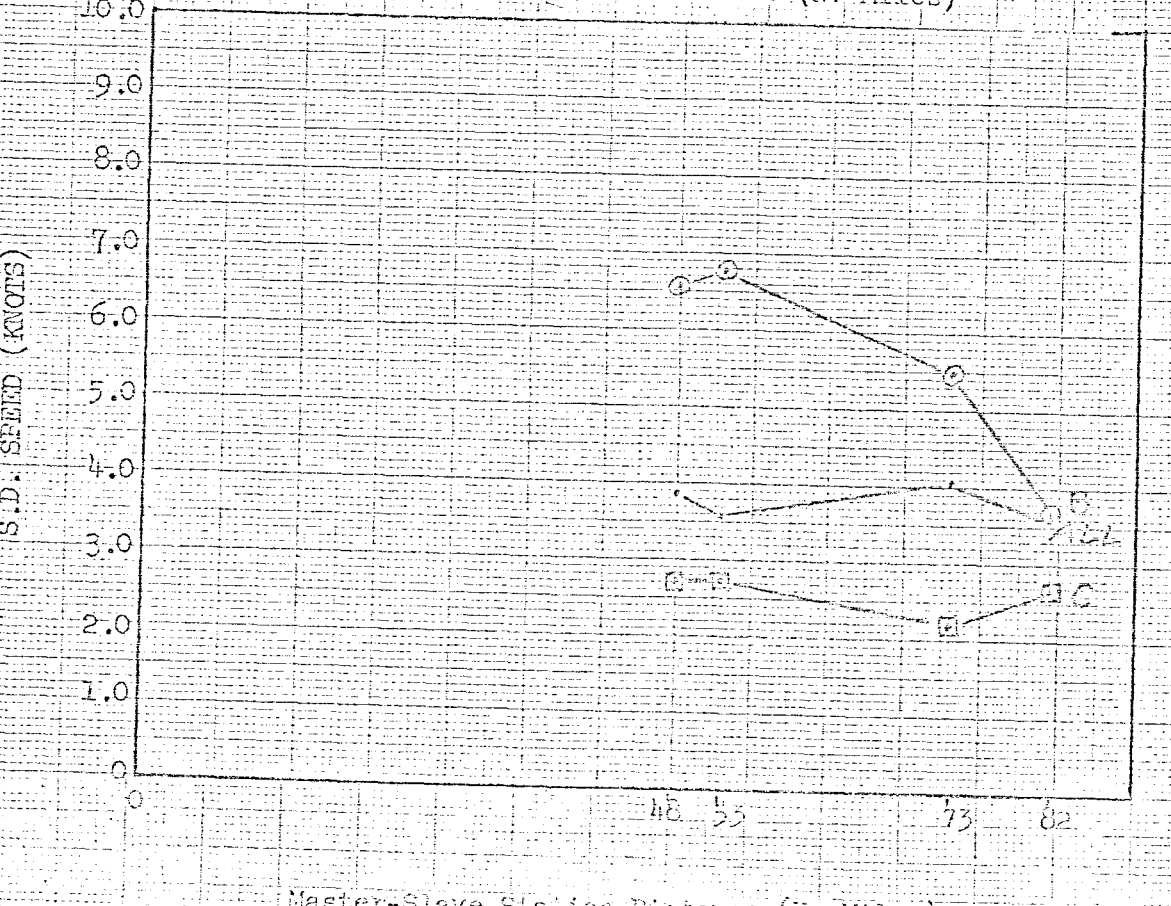


TIME PERIOD 3 TIME GROUP 09 LAG 00

OKLAHOMA DELTA NETWORK

Figure III.B.2.3.10
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0120-0125 interval from 0930-1130 time period.



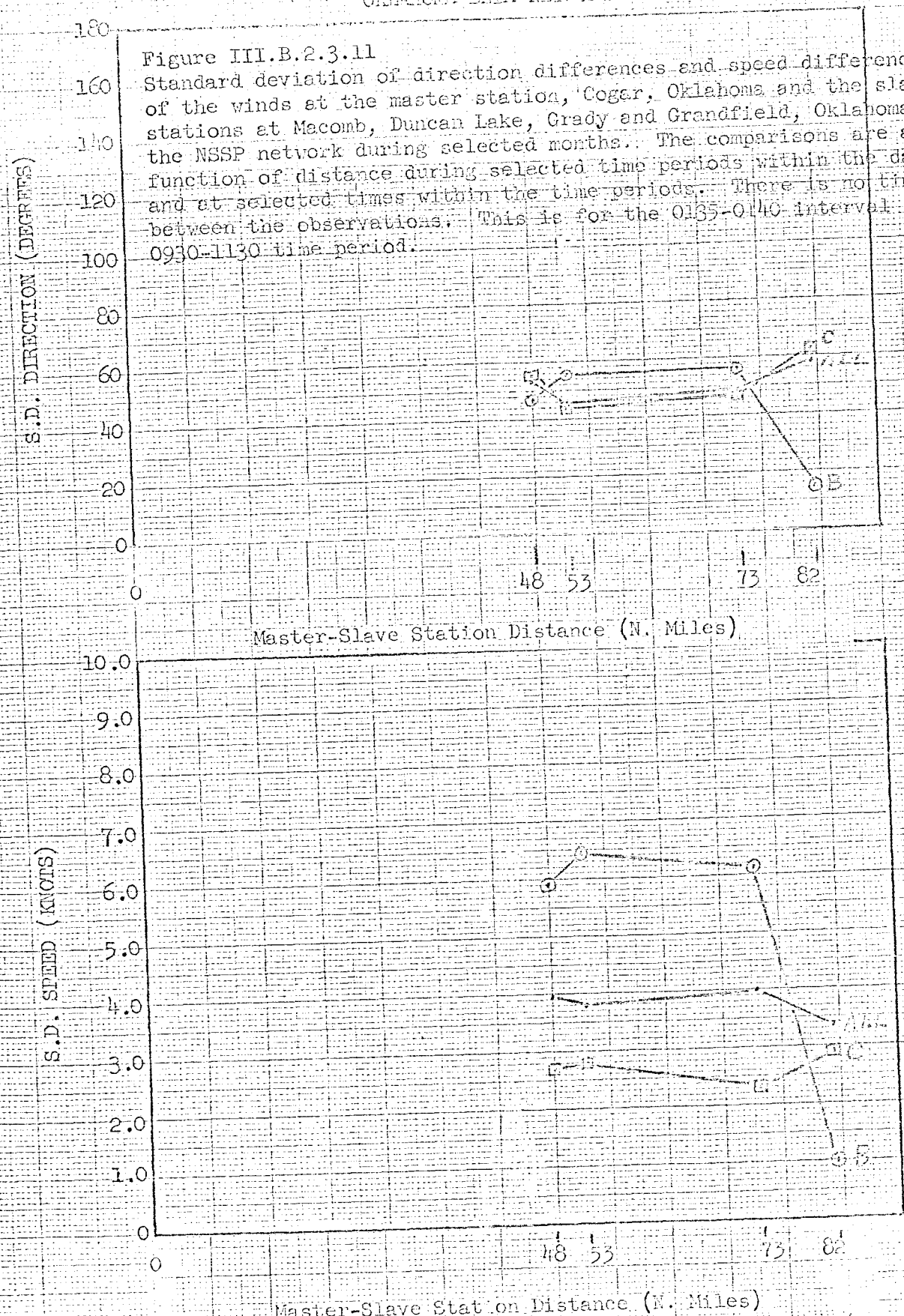


TIME PERIOD 2 TIME GROUP 2 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.3.11
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0135-0140 interval from 0930-1130 time period.

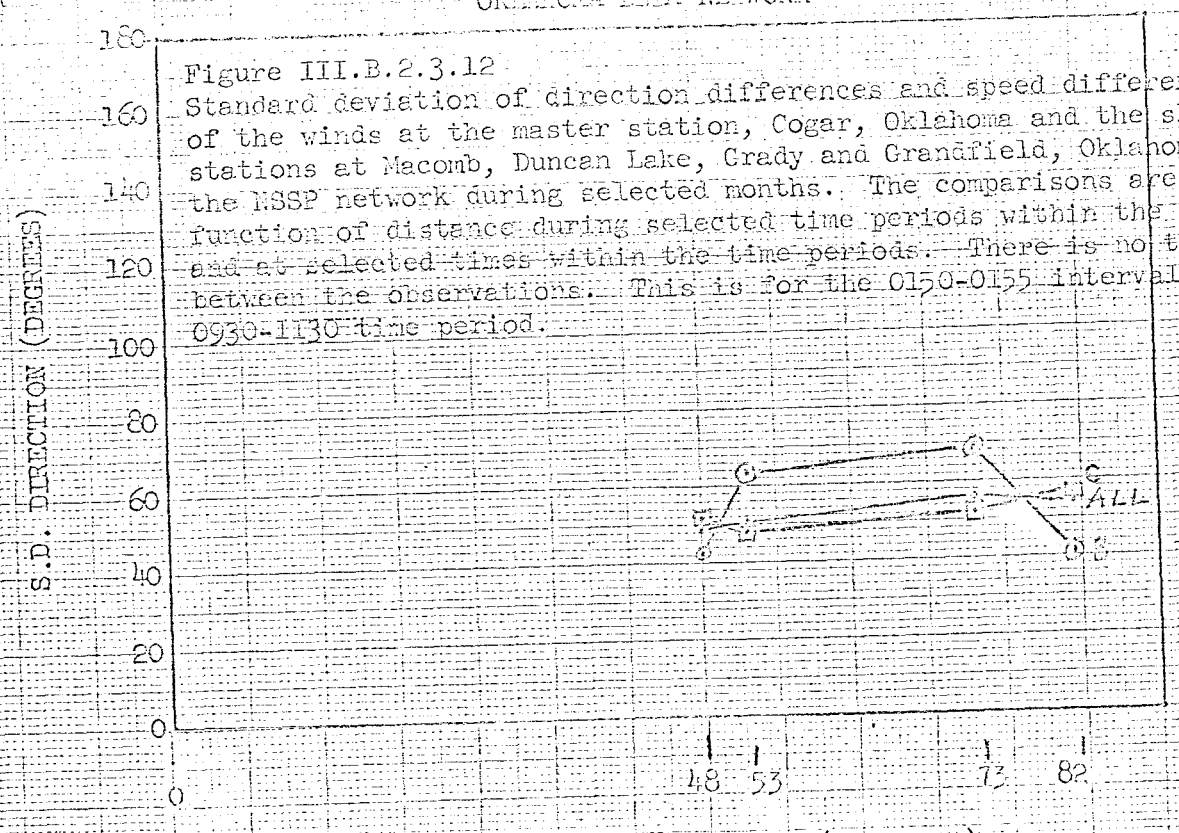


TIME PERIOD _____ TIME GROUP _____ LAG 00

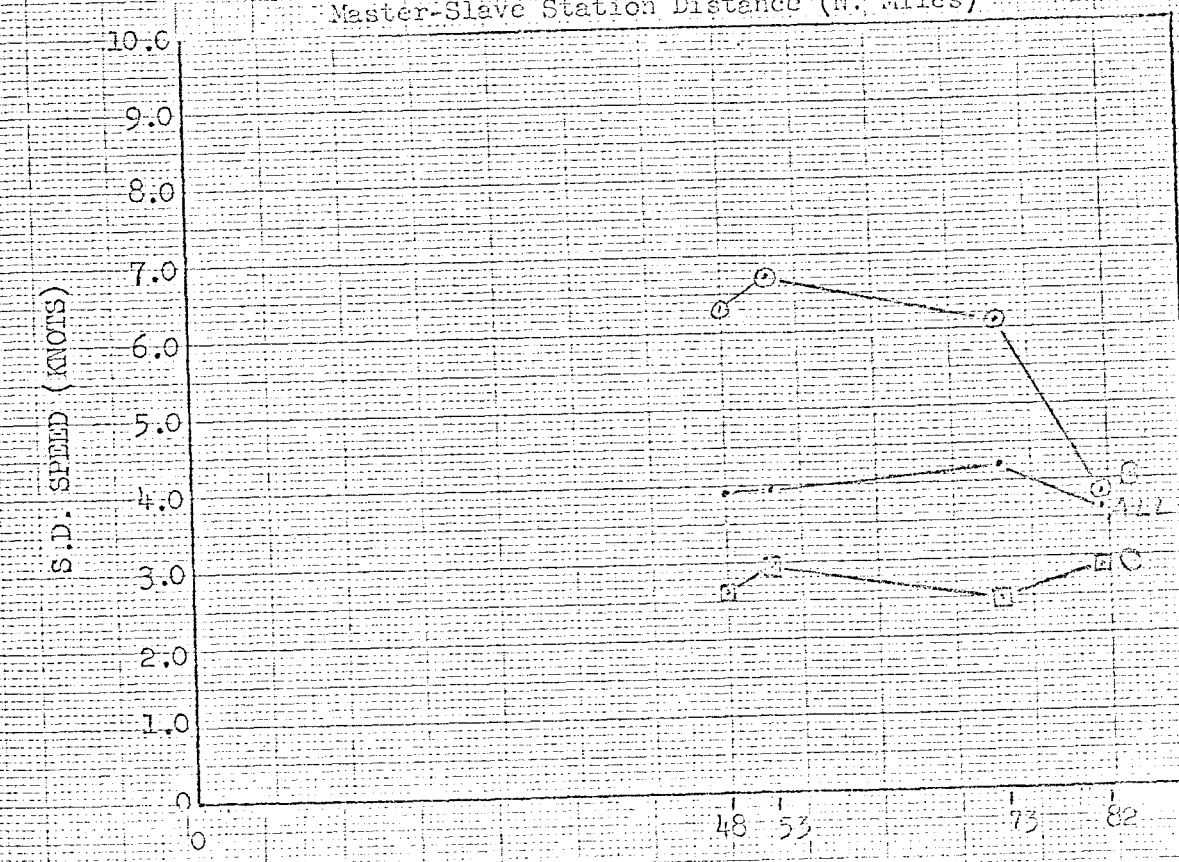
KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.3.12
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0150-0155 interval from 0930-1130 time period.



Master-Slave Station Distance (N. Miles)



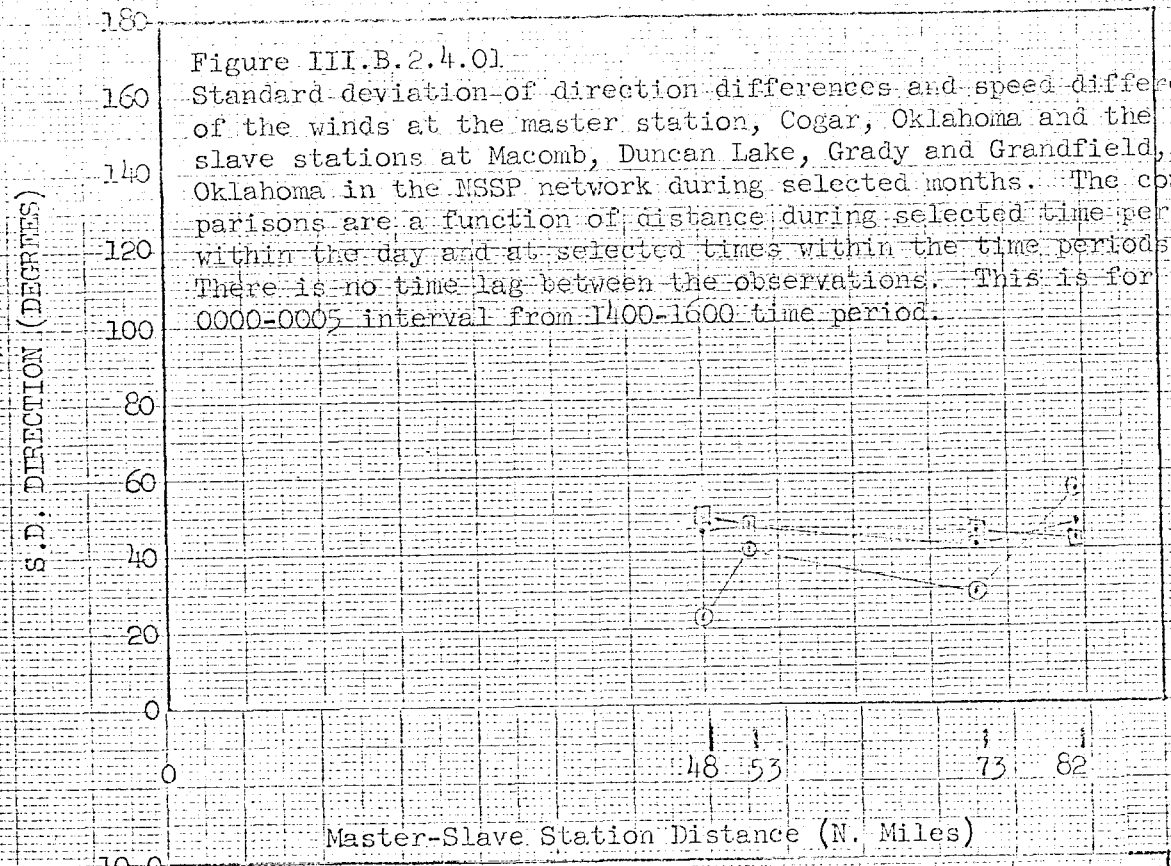
Master-Slave Station Distance (N. Miles)

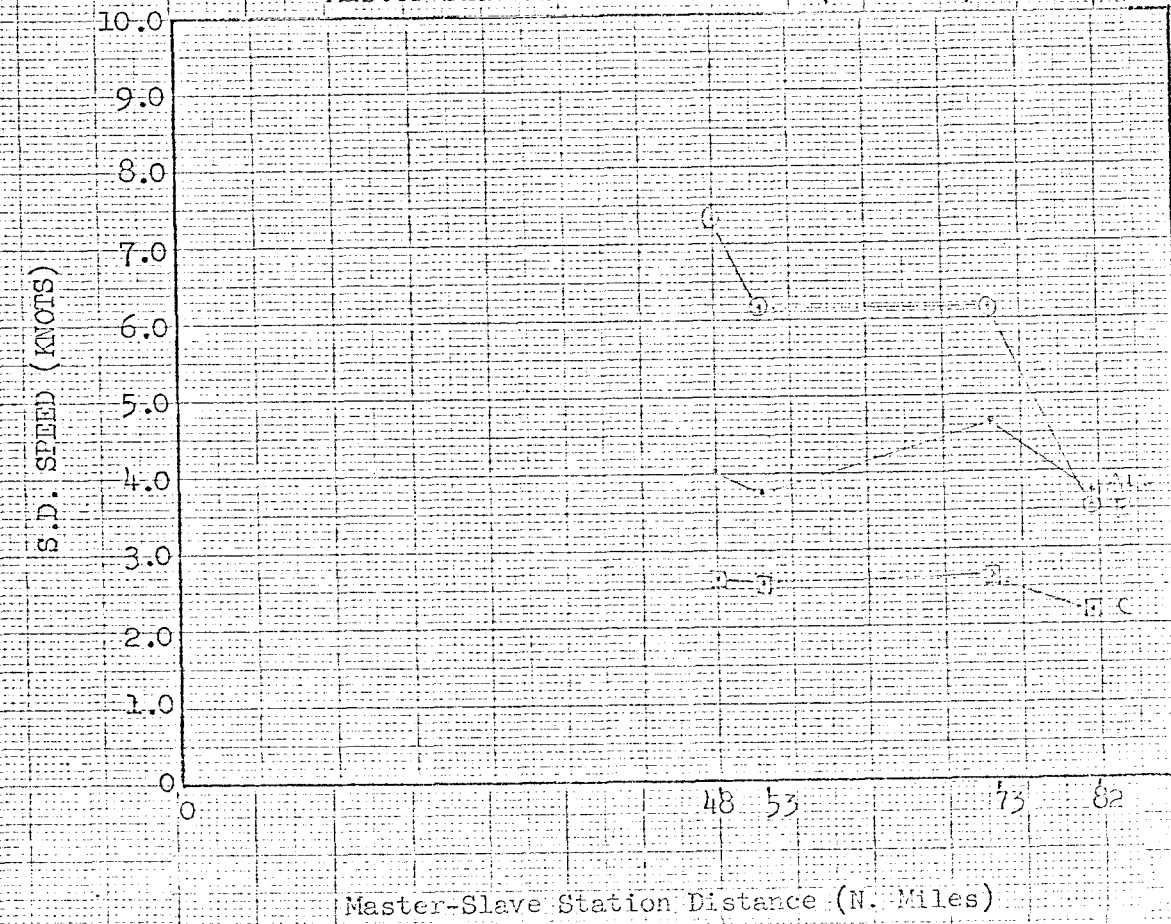
TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.4.01
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0000-0005 interval from 1400-1600 time period.



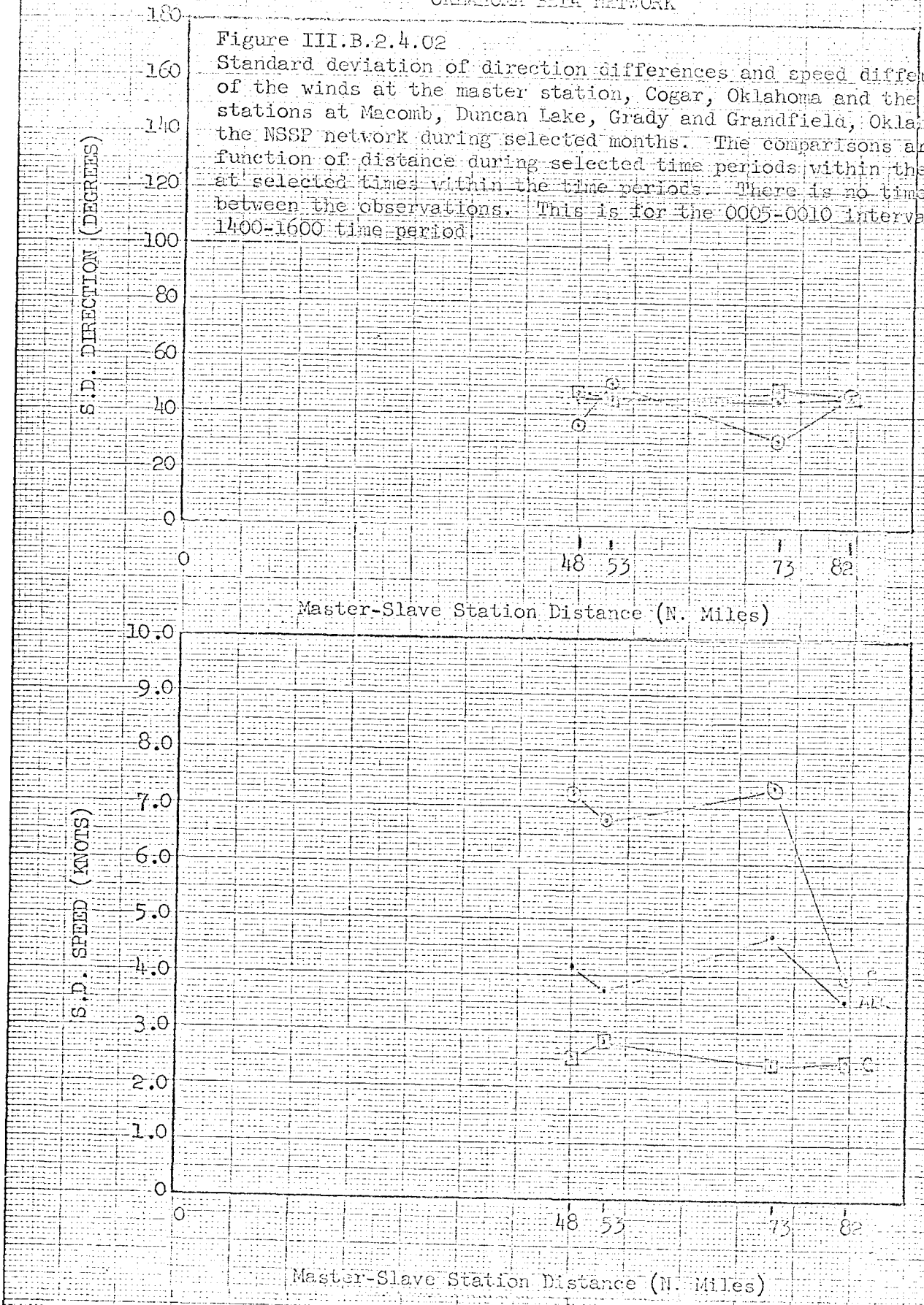


TIME PERIOD 1 TIME GROUP 01 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

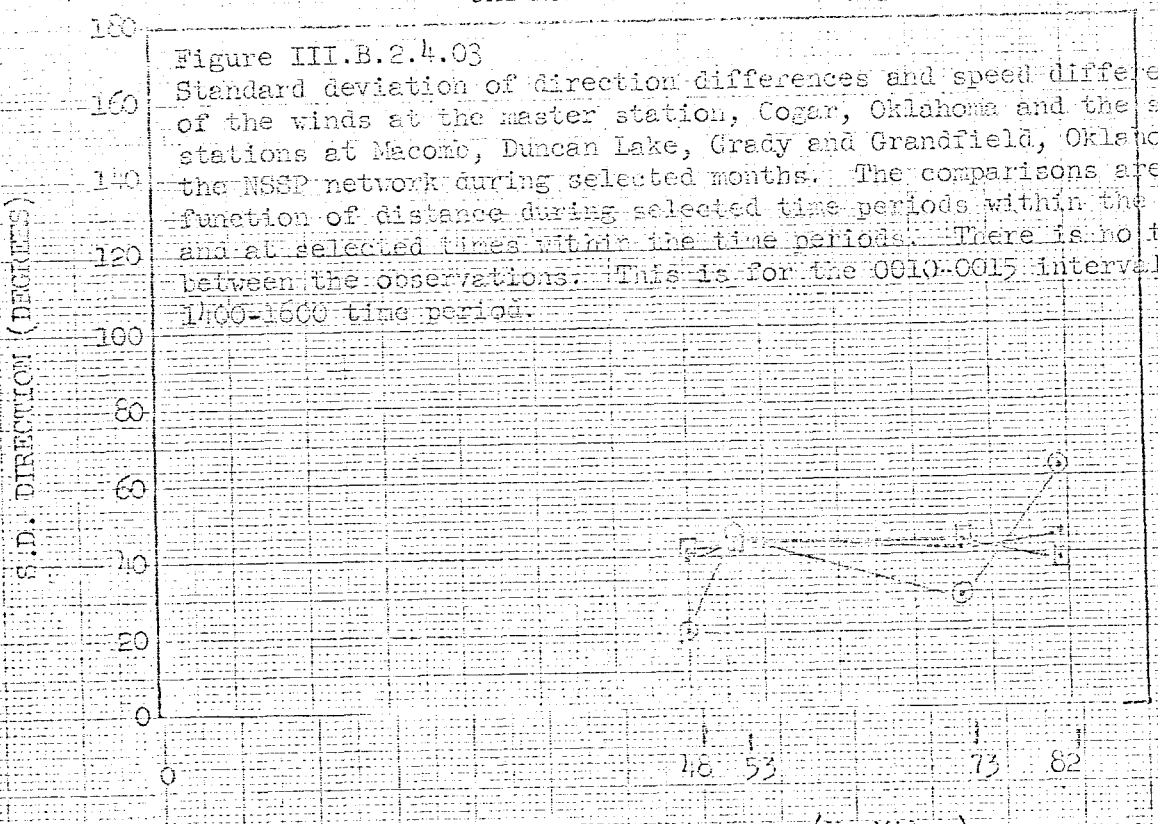
Figure III.B.2.4.02
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0005-0010 interval from 1400-1600 time period.



TIME PERIOD 4 TIME GROUP 1 LAG CO

OKLAHOMA BETA NETWORK

Figure III.B.2.4.03
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0010-0015 interval from 1400-1600 time period.

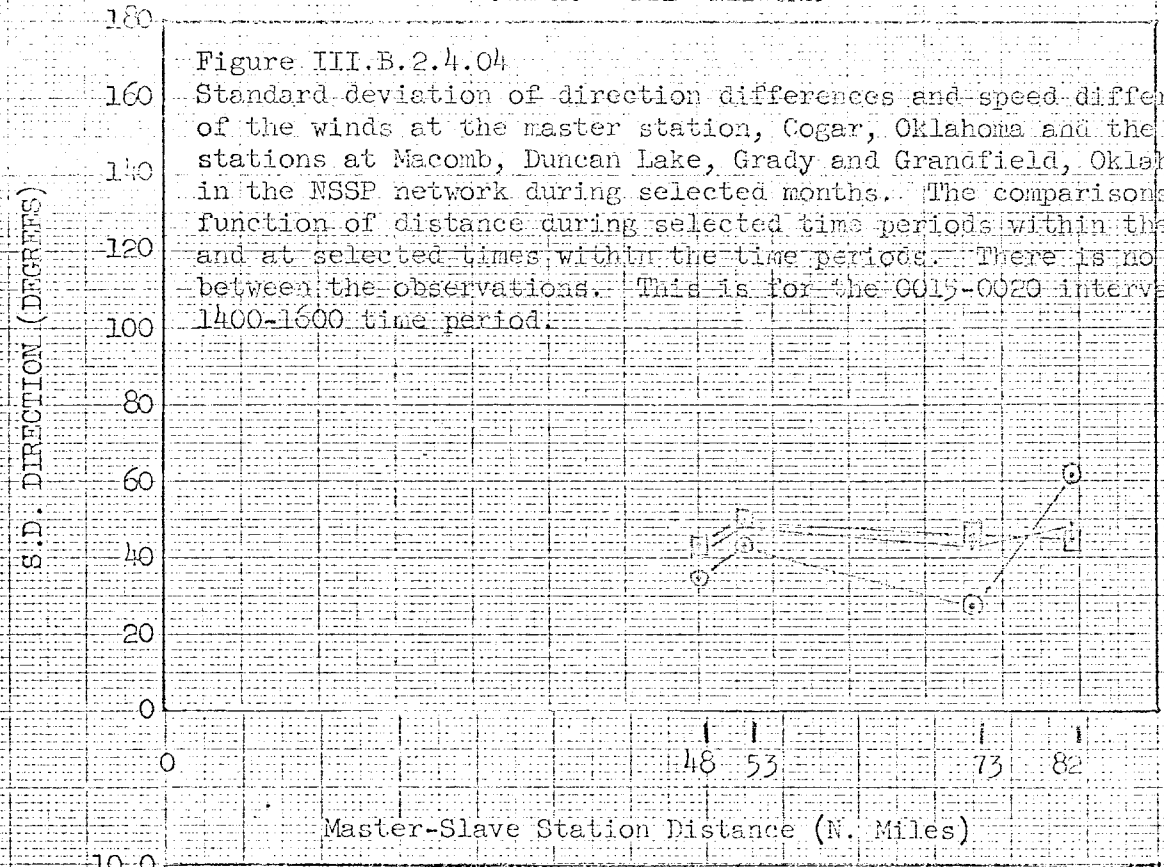


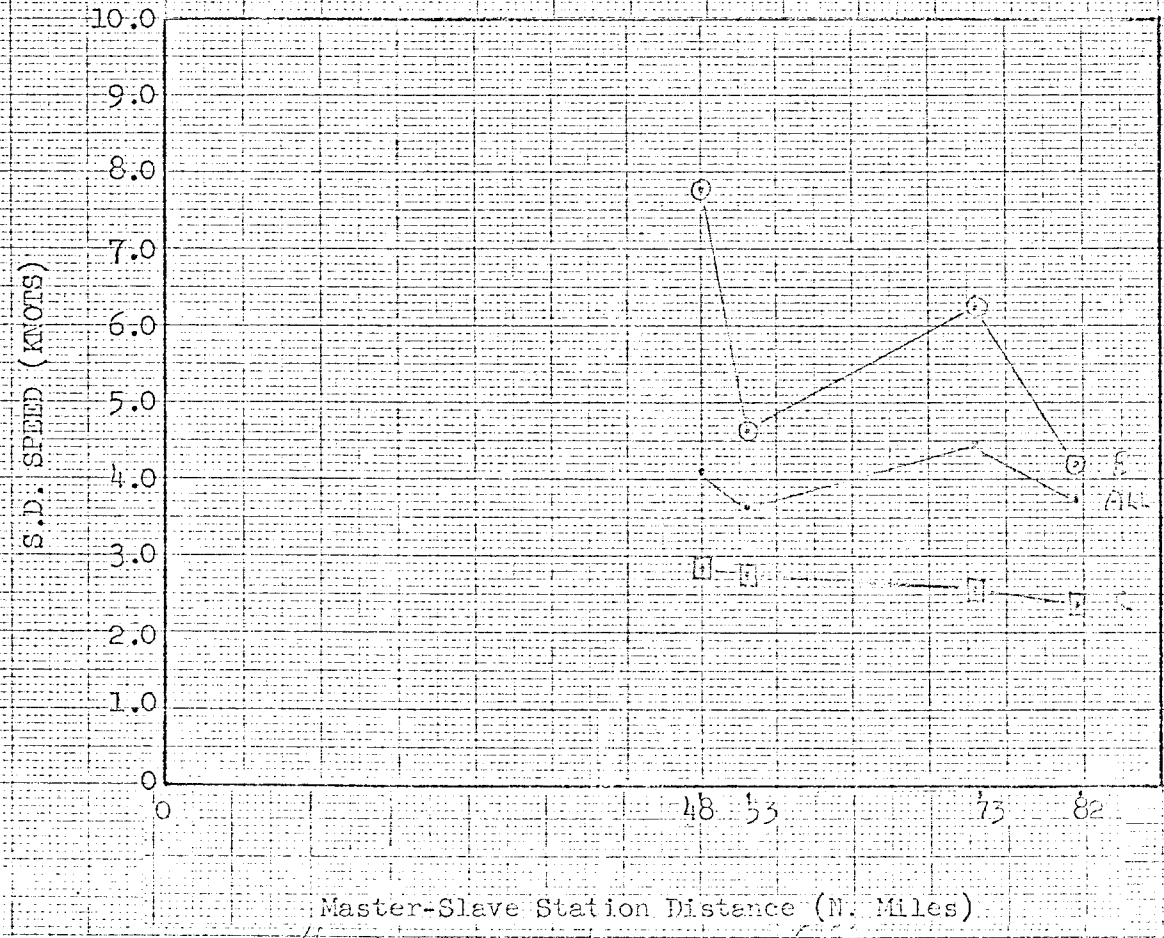
TIME PERIOD 4 TIME GROUP 08 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BEIA NETWORK

Figure III.B.2.4.04
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0015-0020 interval from 1400-1600 time period.



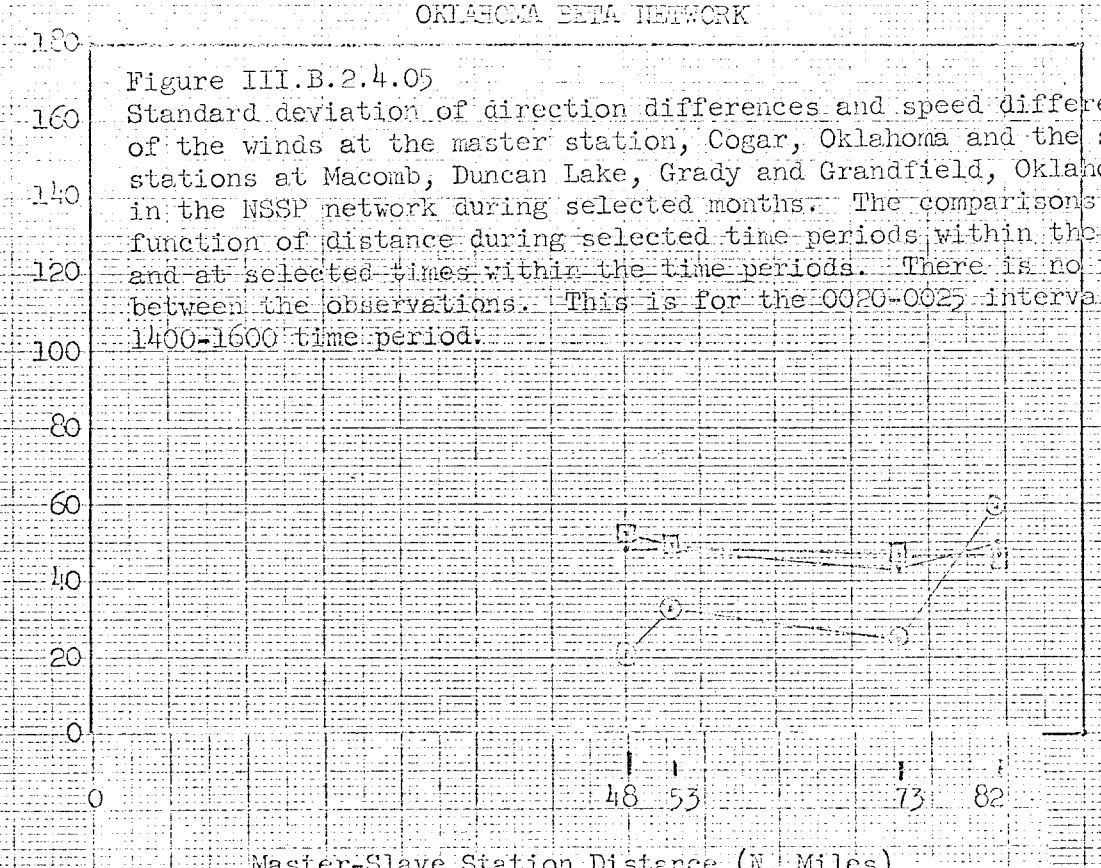


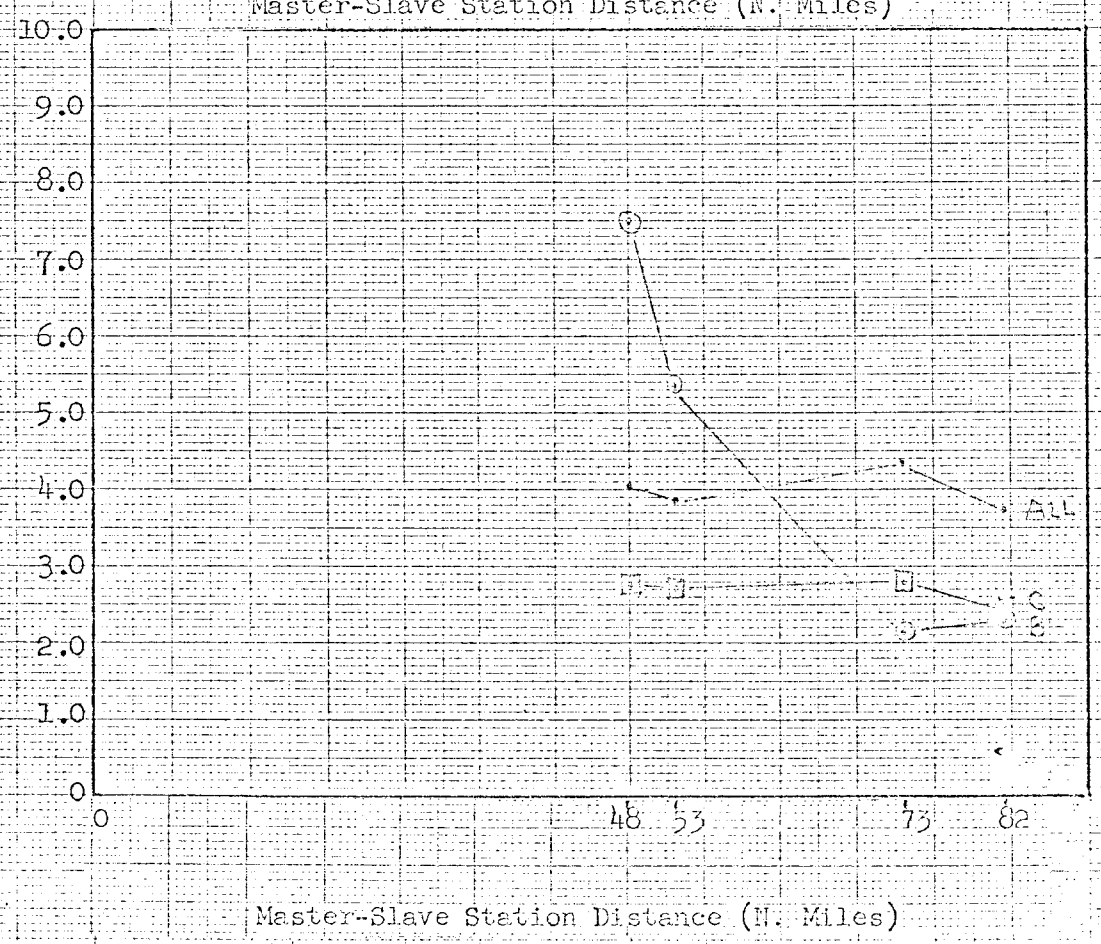
TIME PERIOD 4 TIME GROUP 6 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.4.05
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0020-0025 interval from 1400-1600 time period.

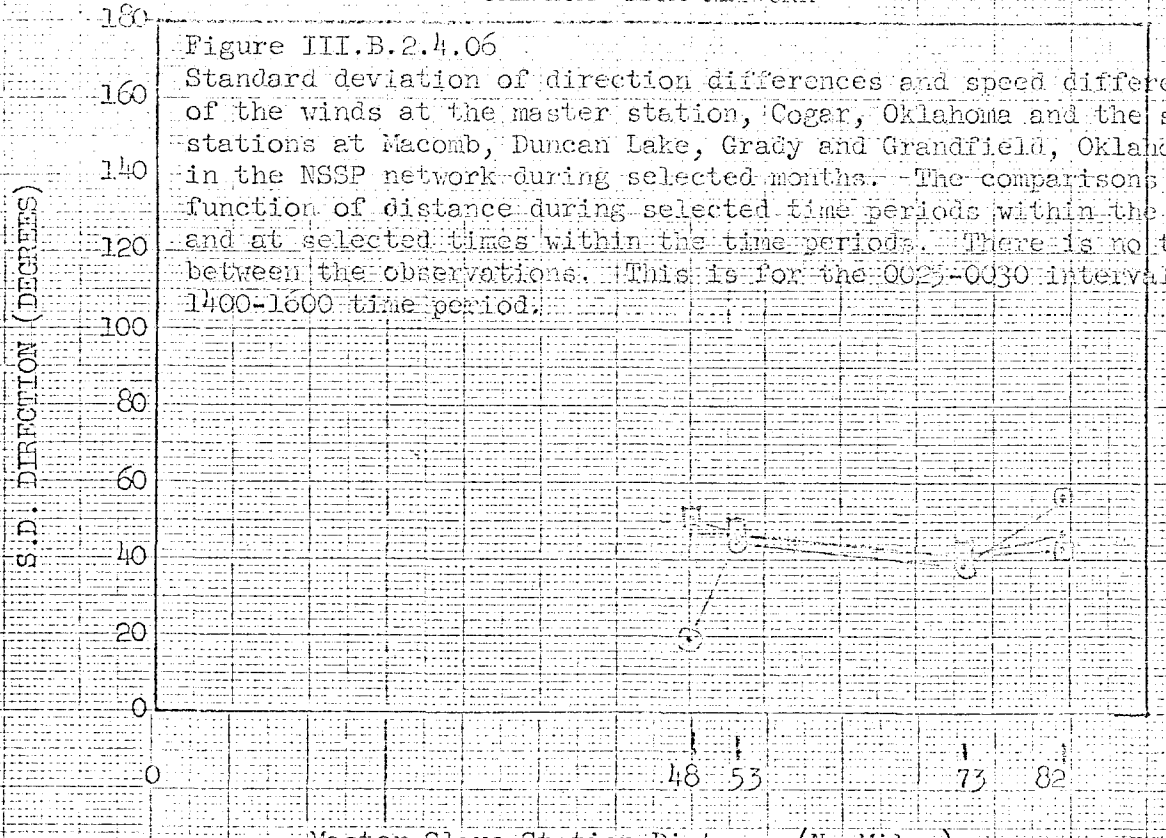


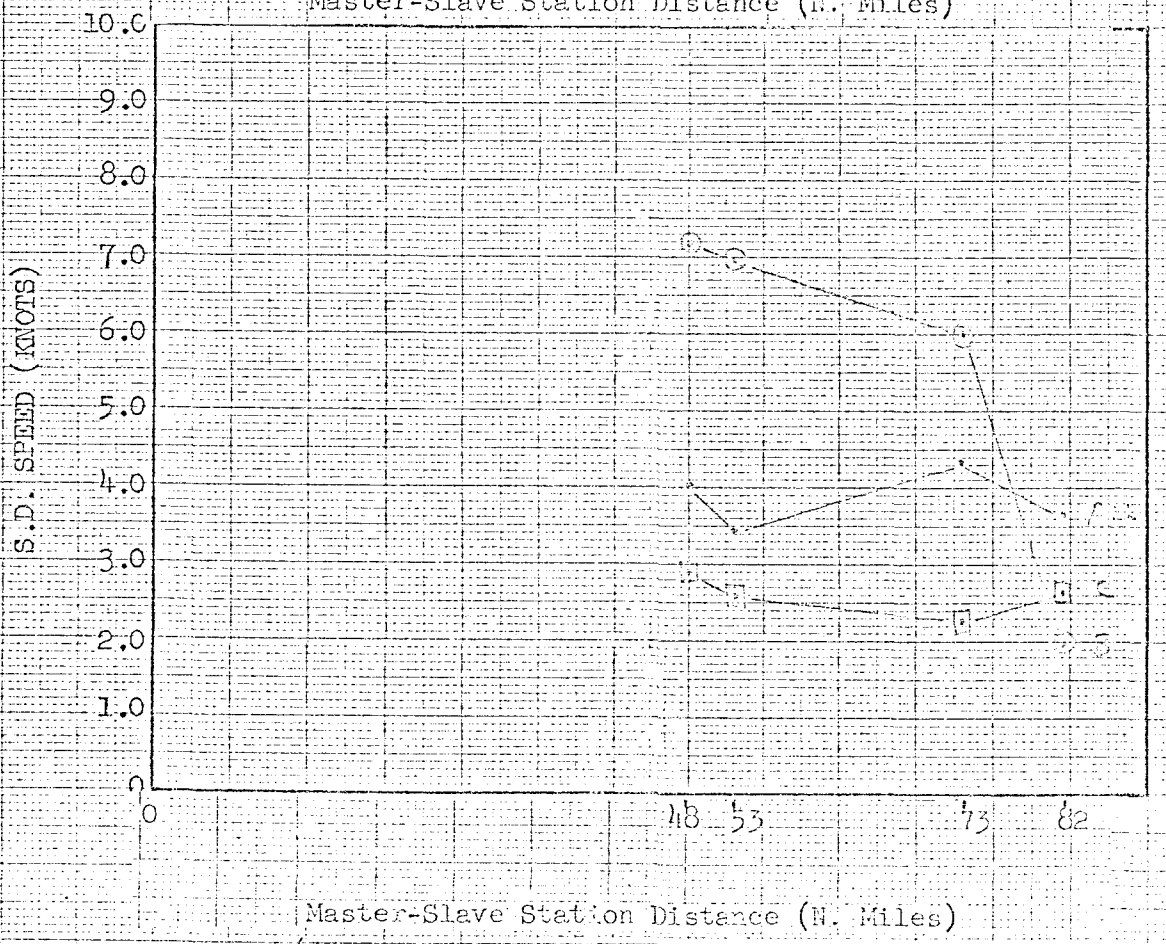


TIME PERIOD _____ TIME GROUP 15 _____ LAG 00

OKLAHOMA BETA NETWORK

Figure III.B.2.4.06
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0025-0030 interval from 1400-1600 time period.



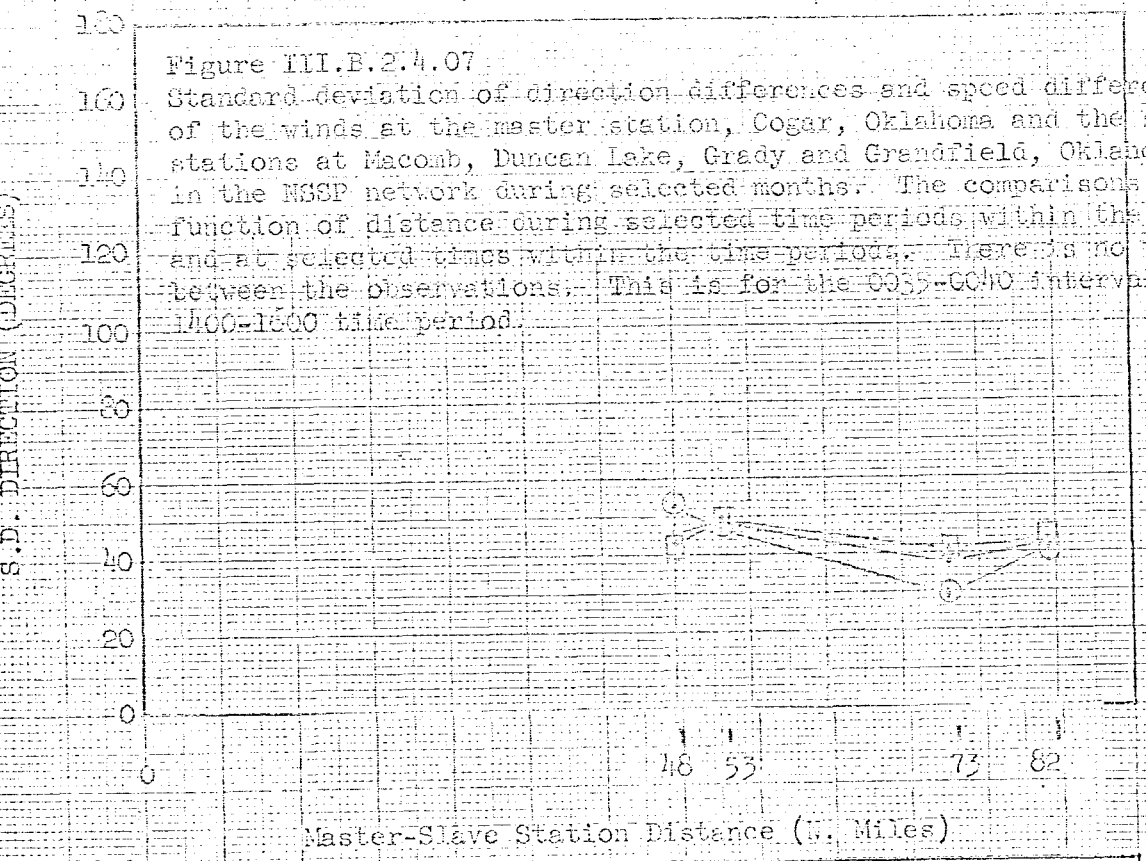


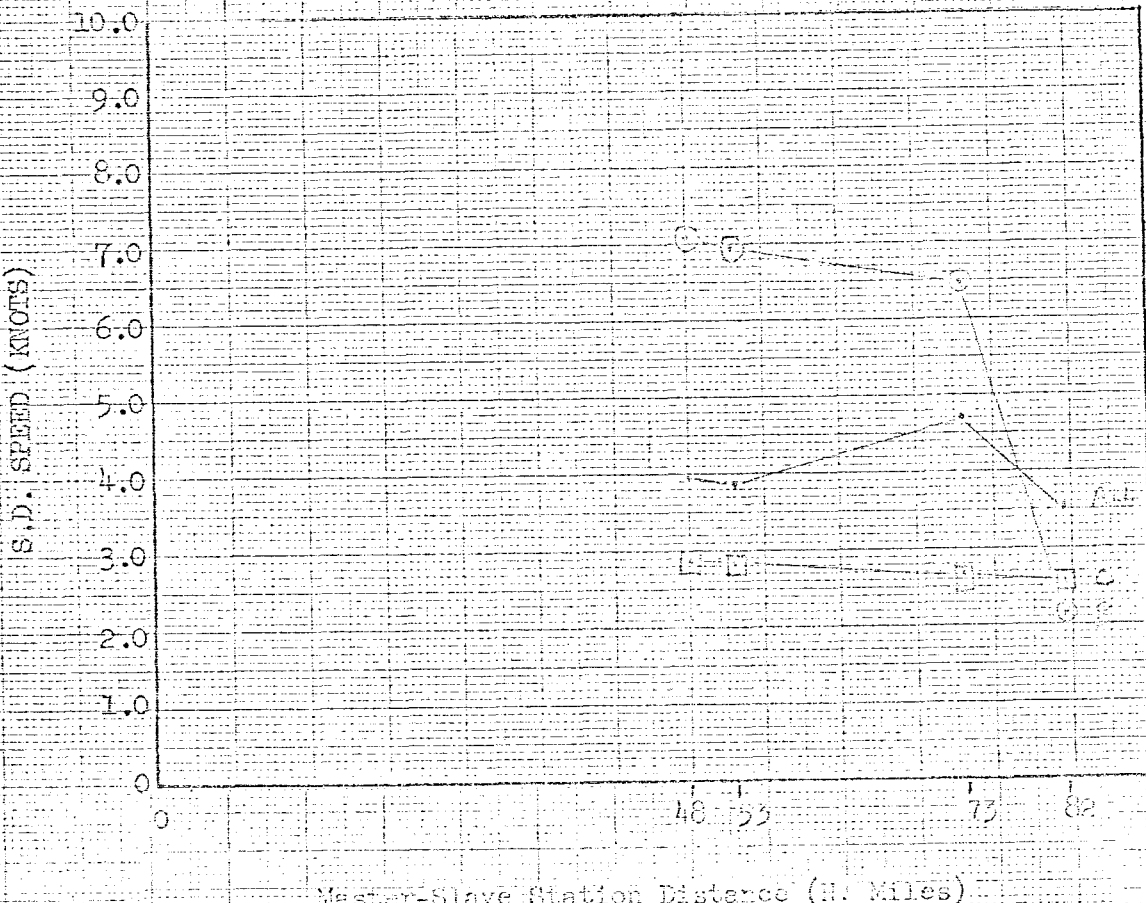
TIME PERIOD 4 TIME GROUP 16 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA ELDA NETWORK

Figure III.B.2.4.07
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There's no time lag between the observations. This is for the 0035-0040 interval from 1400-1600 time period.



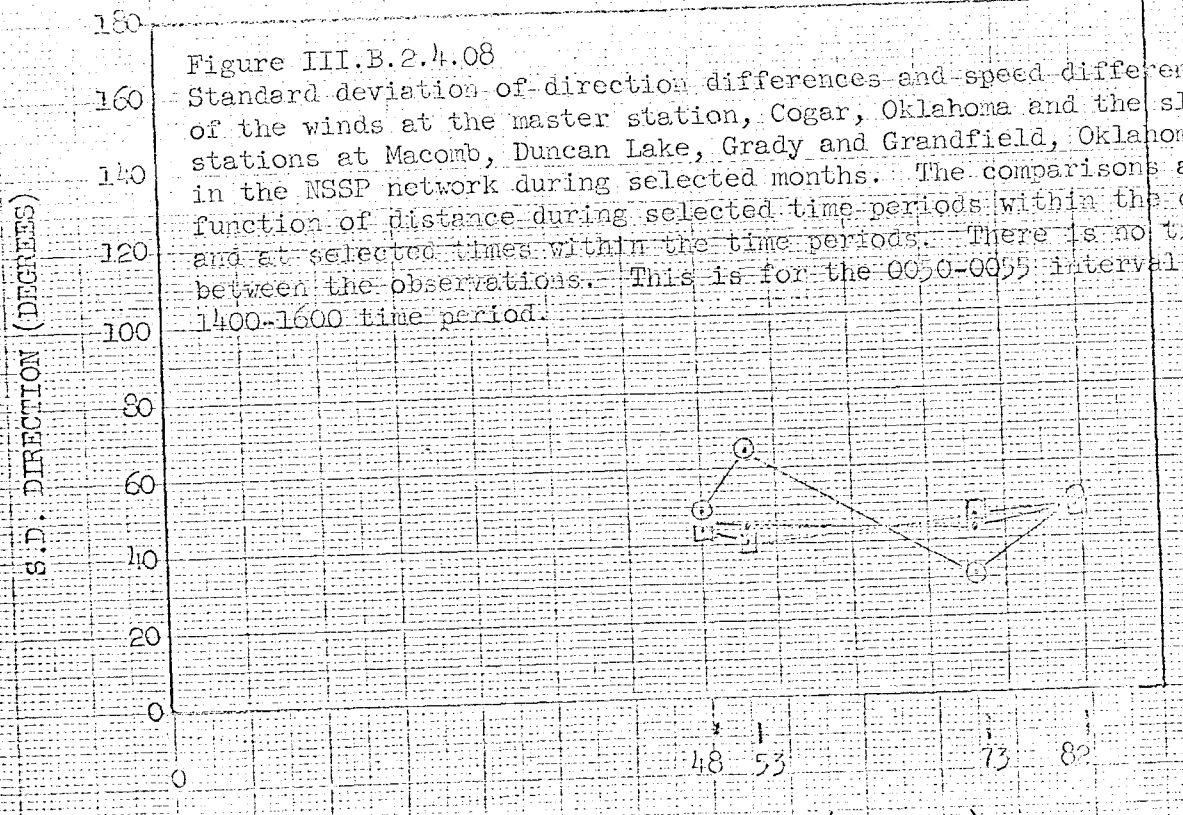


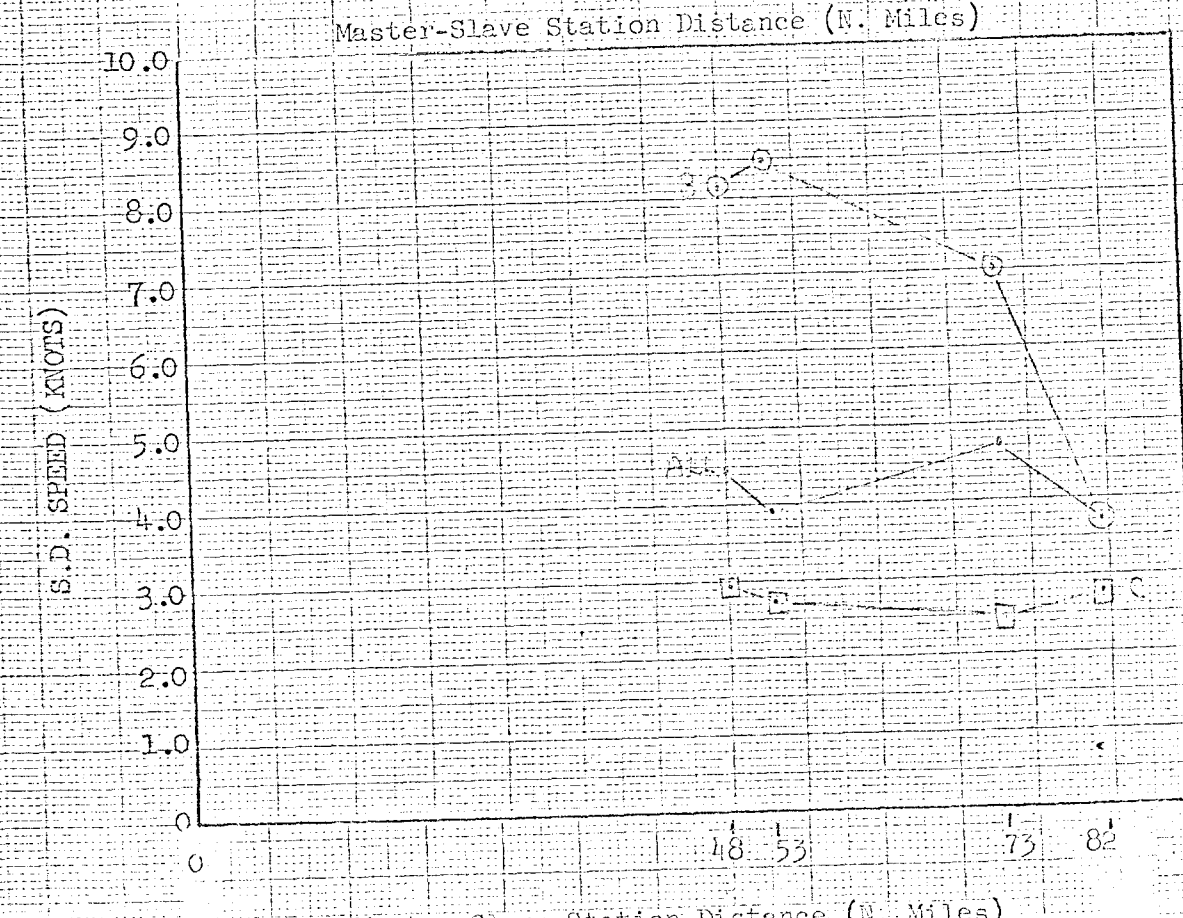
TIME PERIOD 4 TIME GROUP 07 IAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.4.08
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0030-0035 interval from 1400-1600 time period.



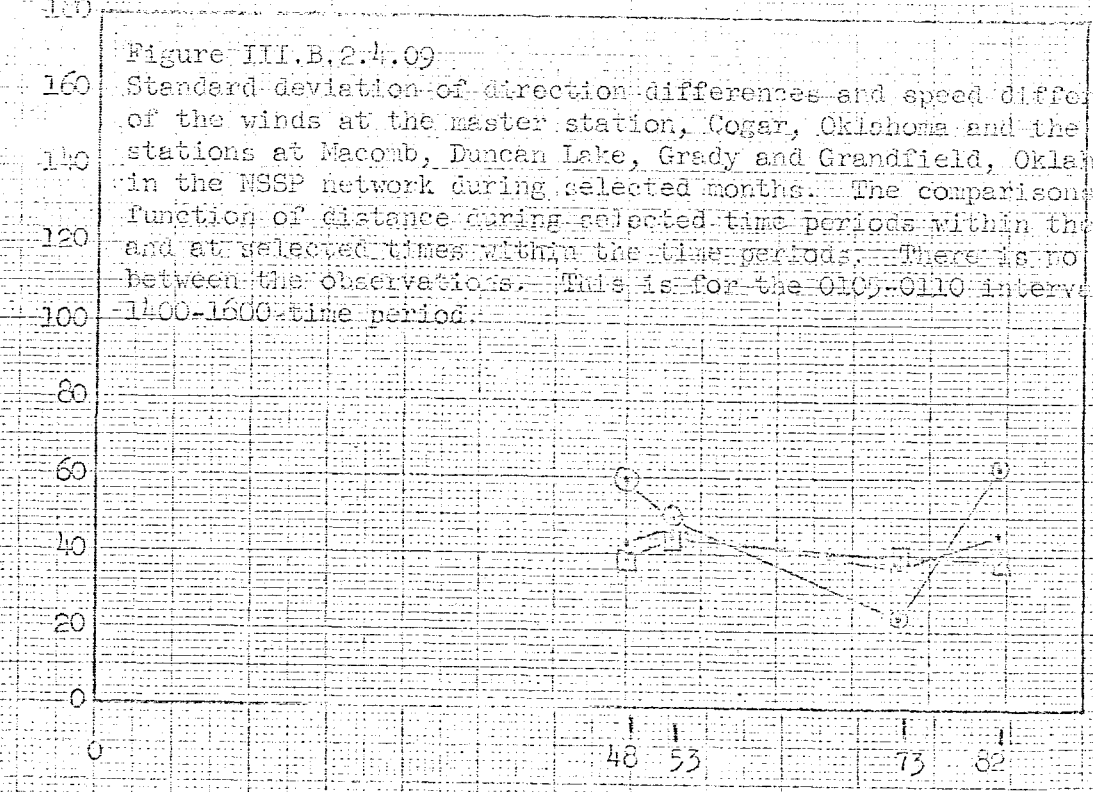


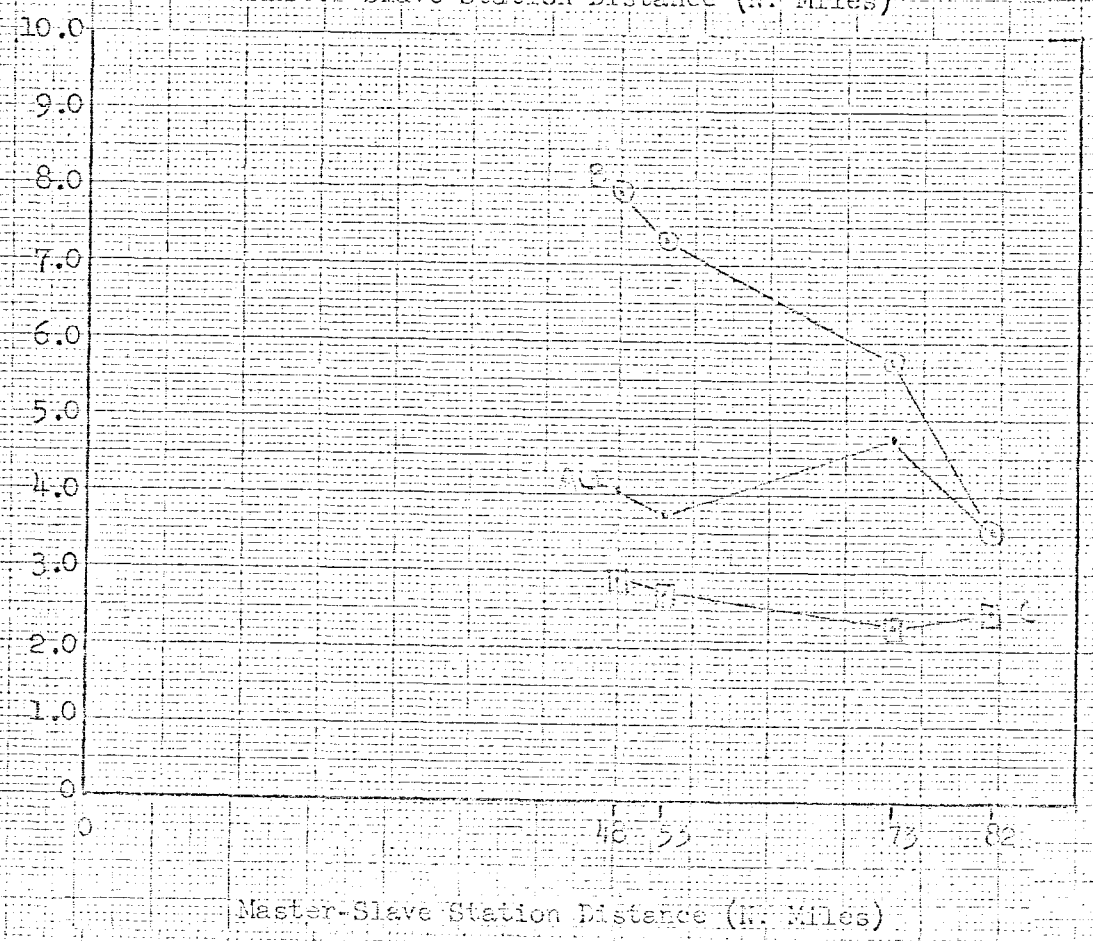
TIME PERIOD 4 TIME GROUP LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA RETA NETWORK

Figure III.B.2.4.09
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0105-0110 interval from 1400-1600 time period.



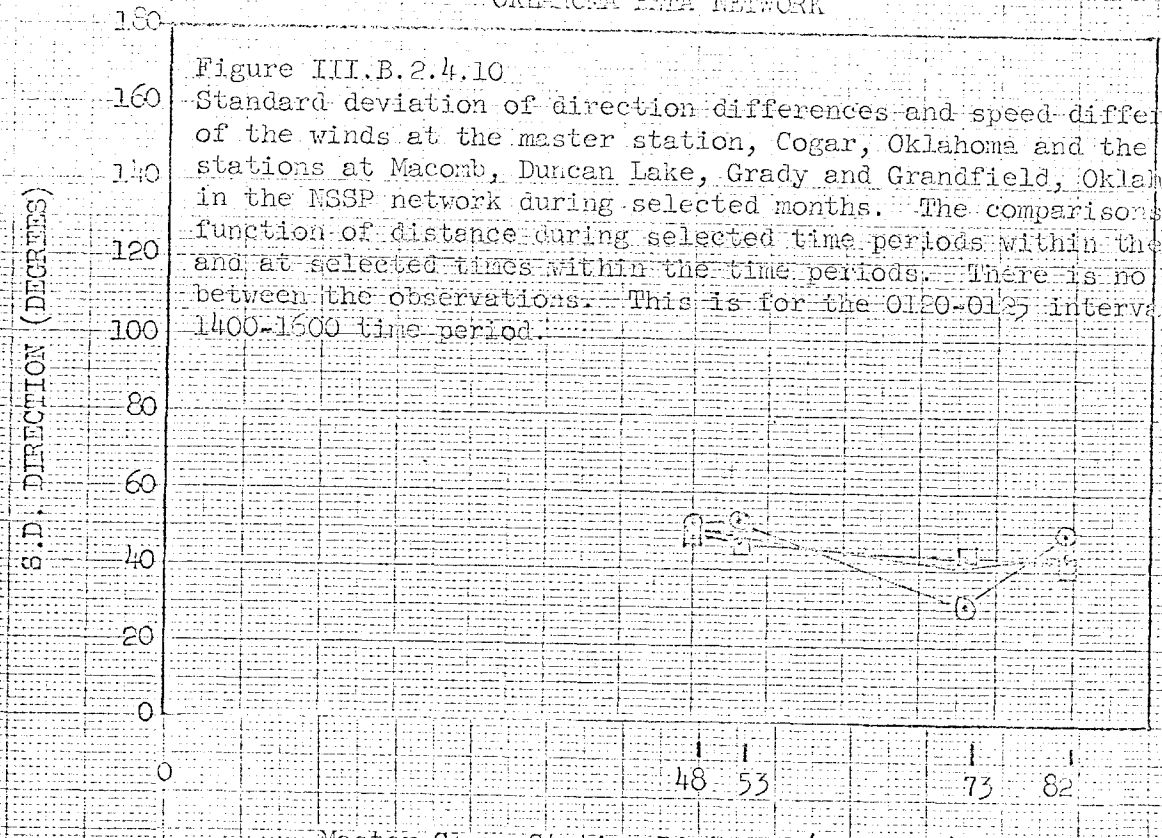


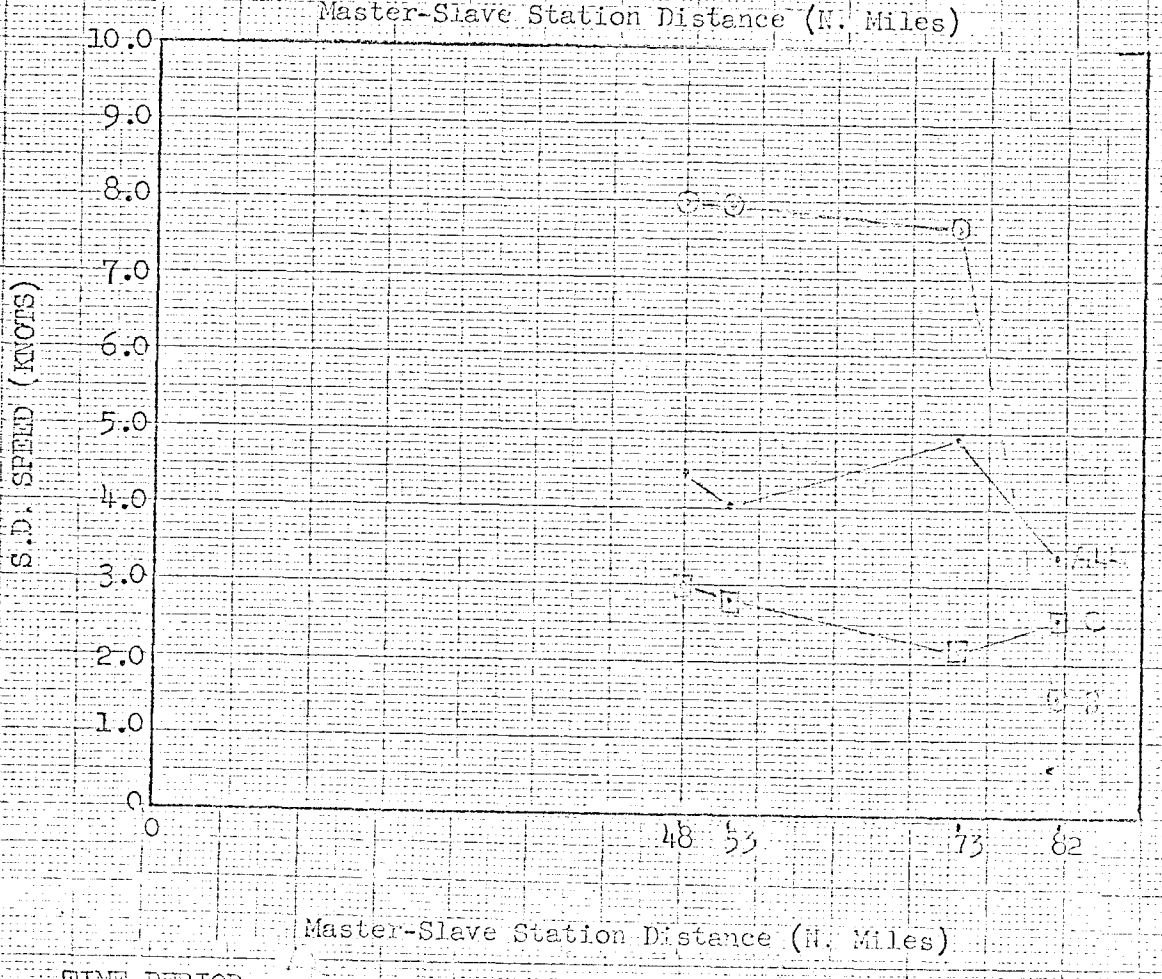
TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA ERFA NETWORK

Figure III.B.2.4.10
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0120-0125 interval from 1400-1600 time period.

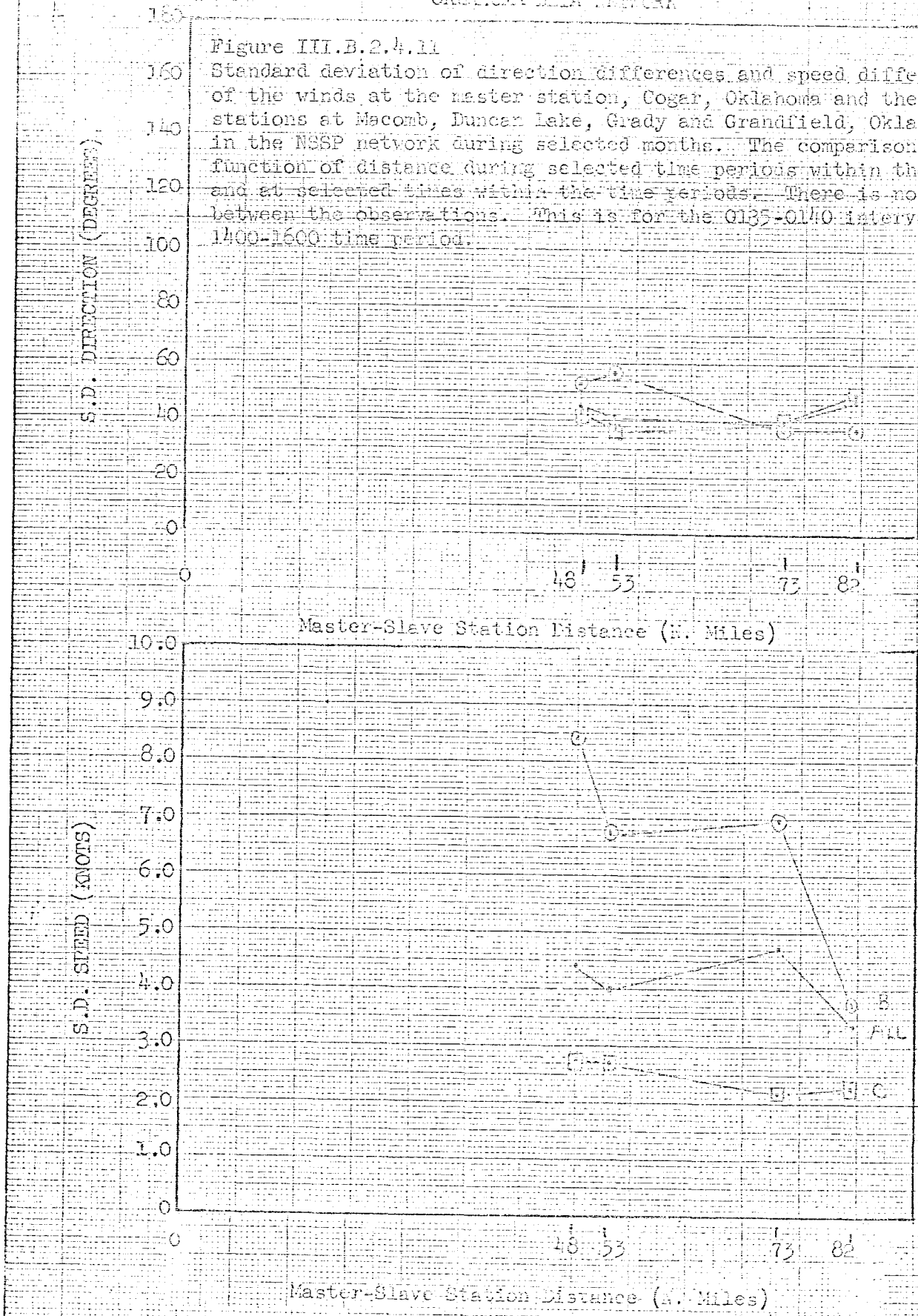




TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

Figure III.B.2.4.11
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0135-0140 interval from 1400-1600 time period.

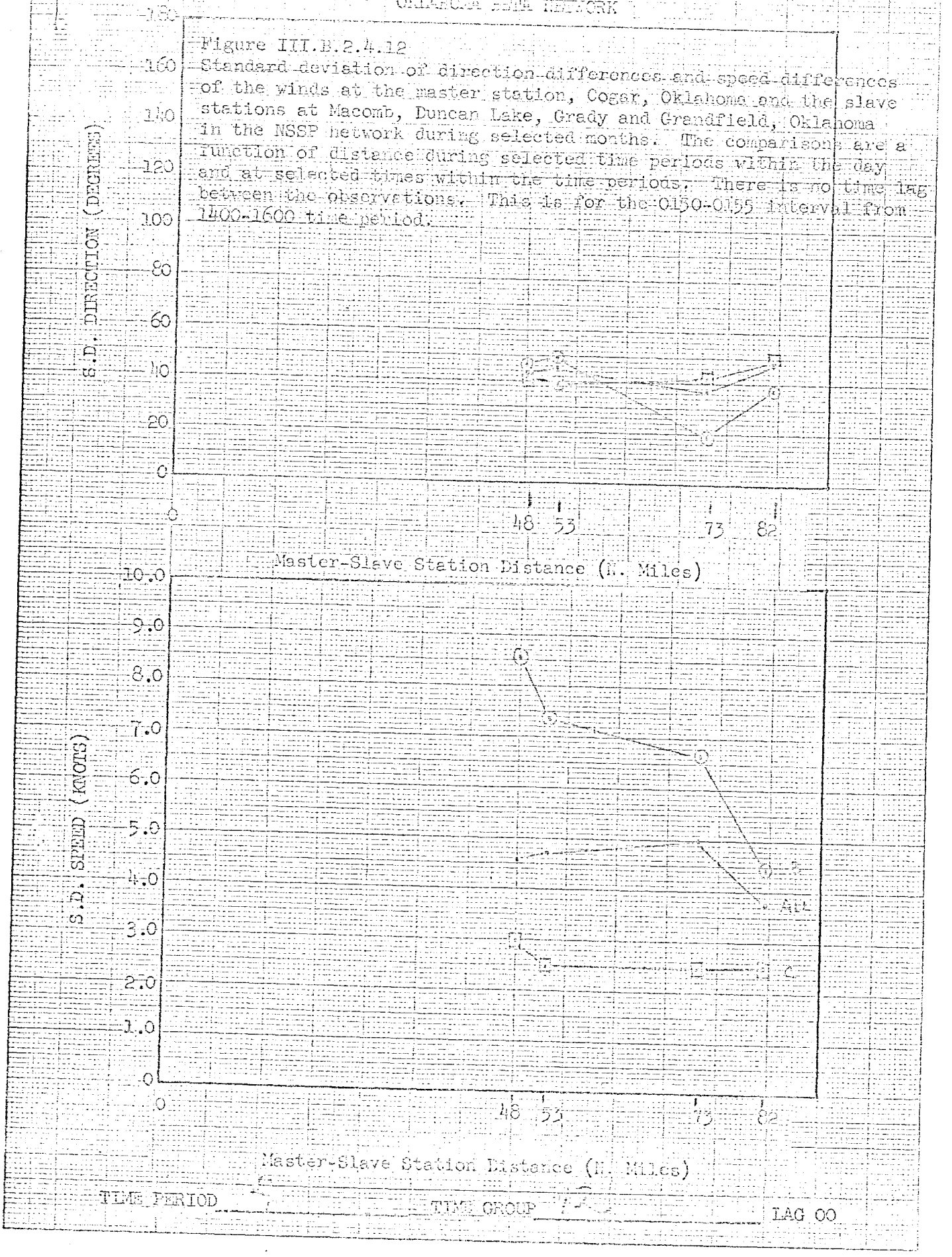


TIME PERIOD 4 TIME GROUP 1 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.2.4.12
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0130-0155 interval from 1400-1600 time period.

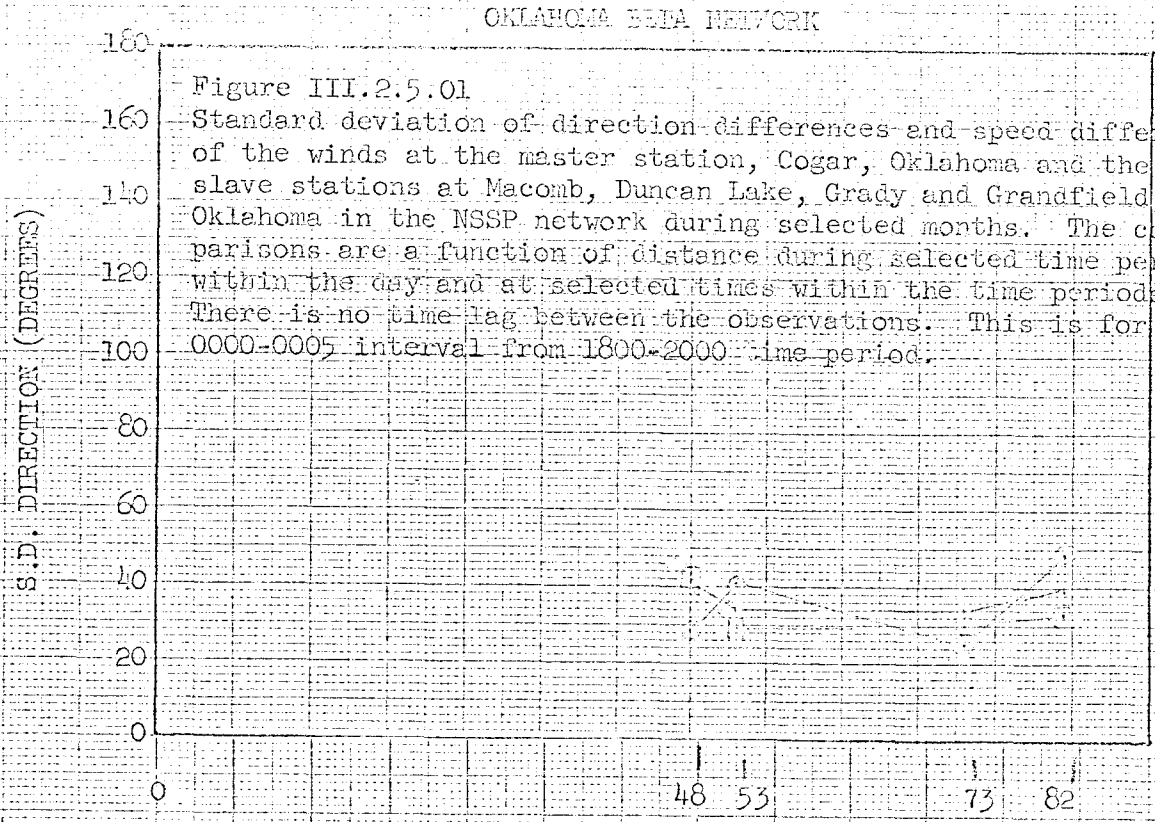


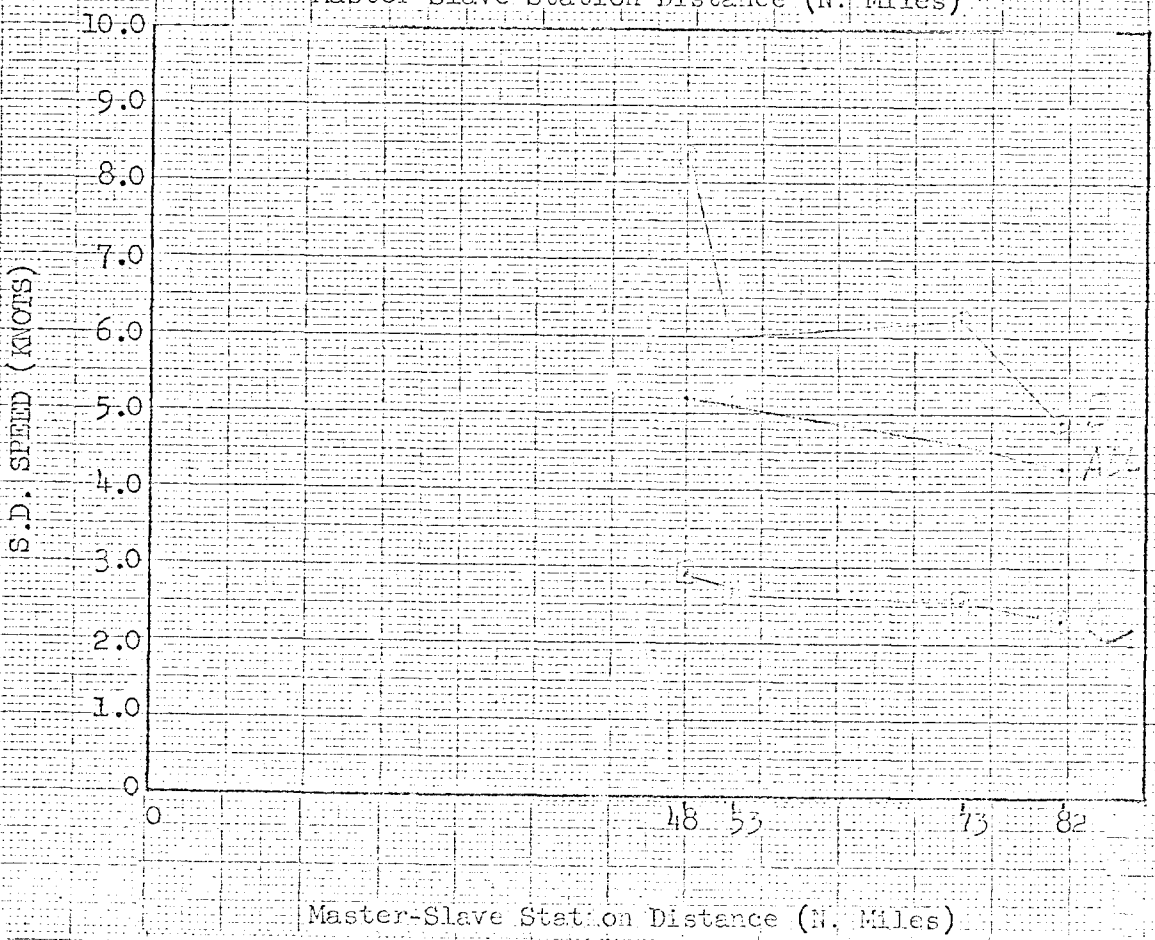
TIME PERIOD _____ TIME GROUP _____ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.2.5.01
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0000-0005 interval from 1800-2000 time period.



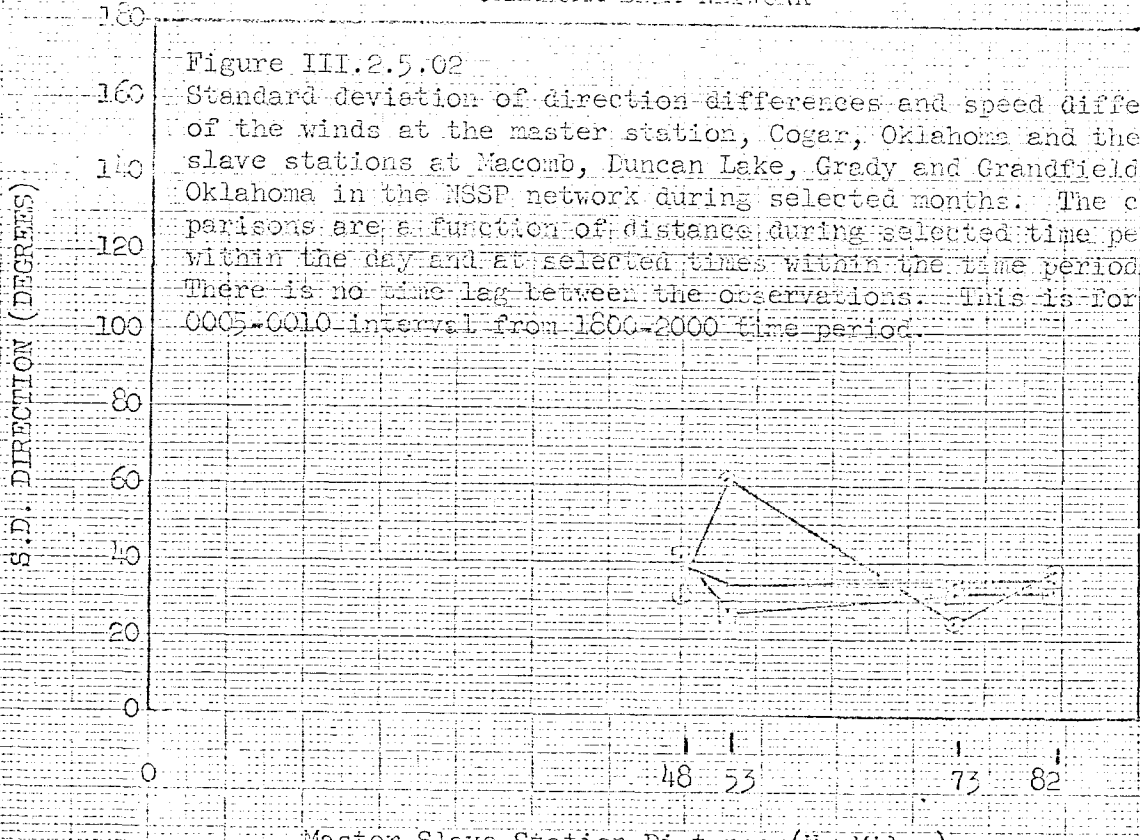


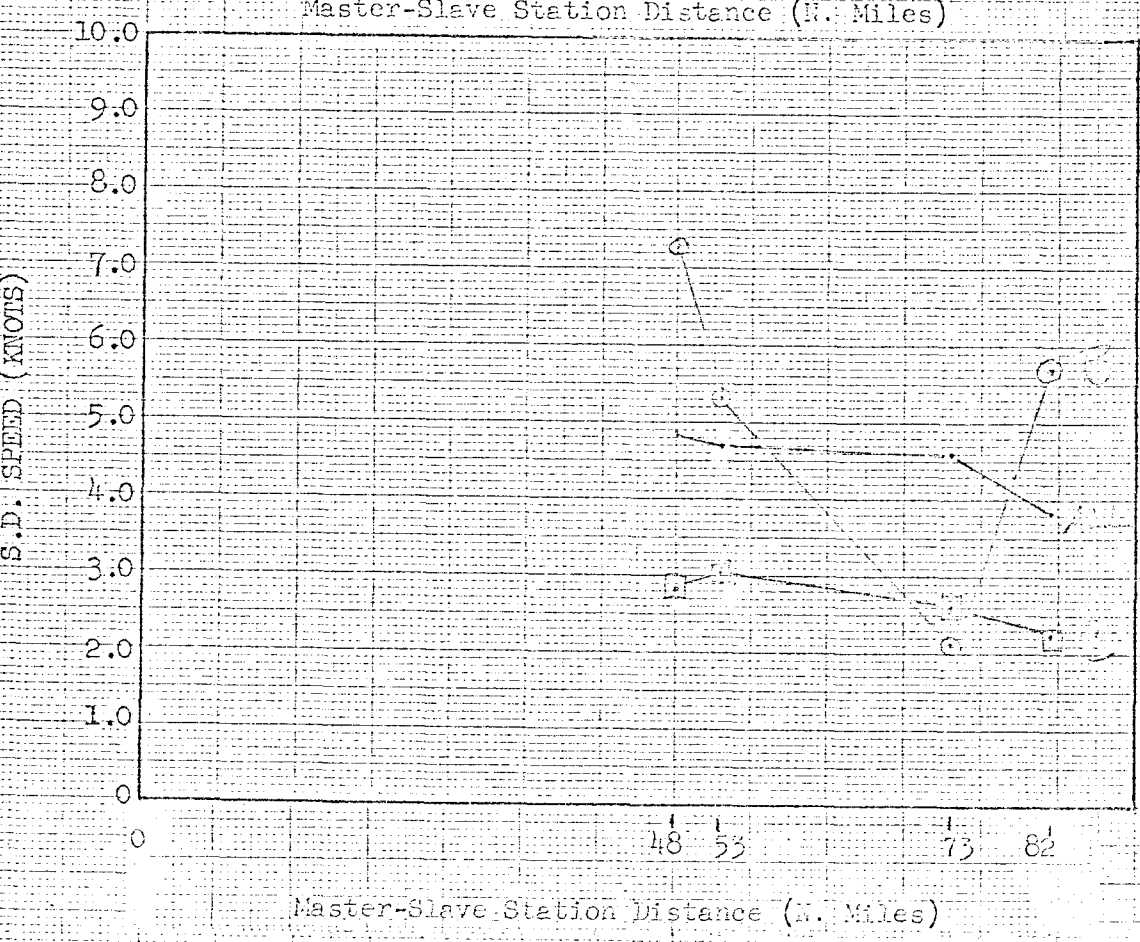
TIME PERIOD 5 TIME GROUP 1/ LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA ERTA NETWORK

Figure III.2.5.02
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0005-0010 interval from 1800-2000 time period.



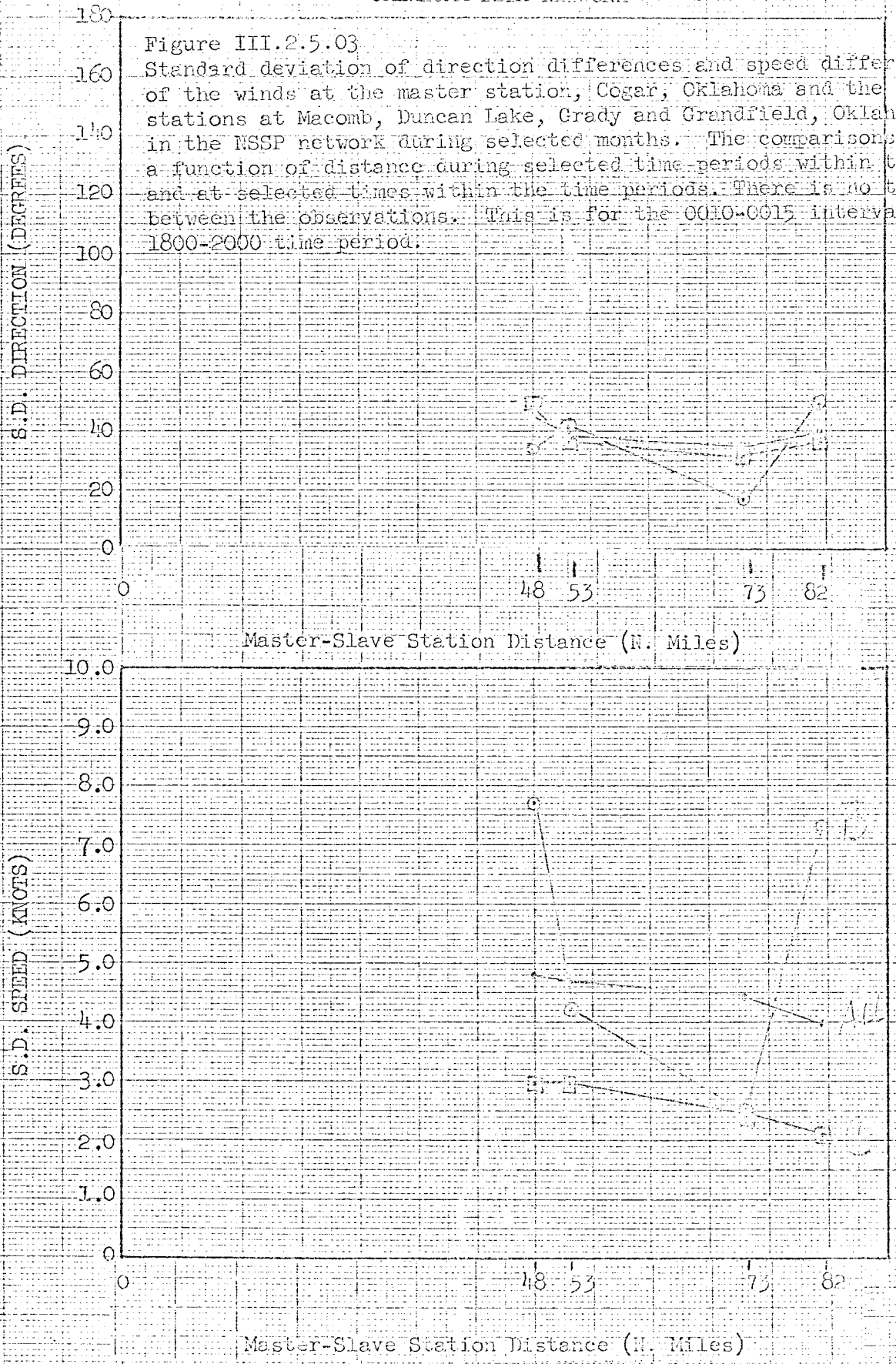


TIME PERIOD S TIME GROUP 02 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.2.5.03
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0010-0015 interval from 1800-2000 time period.

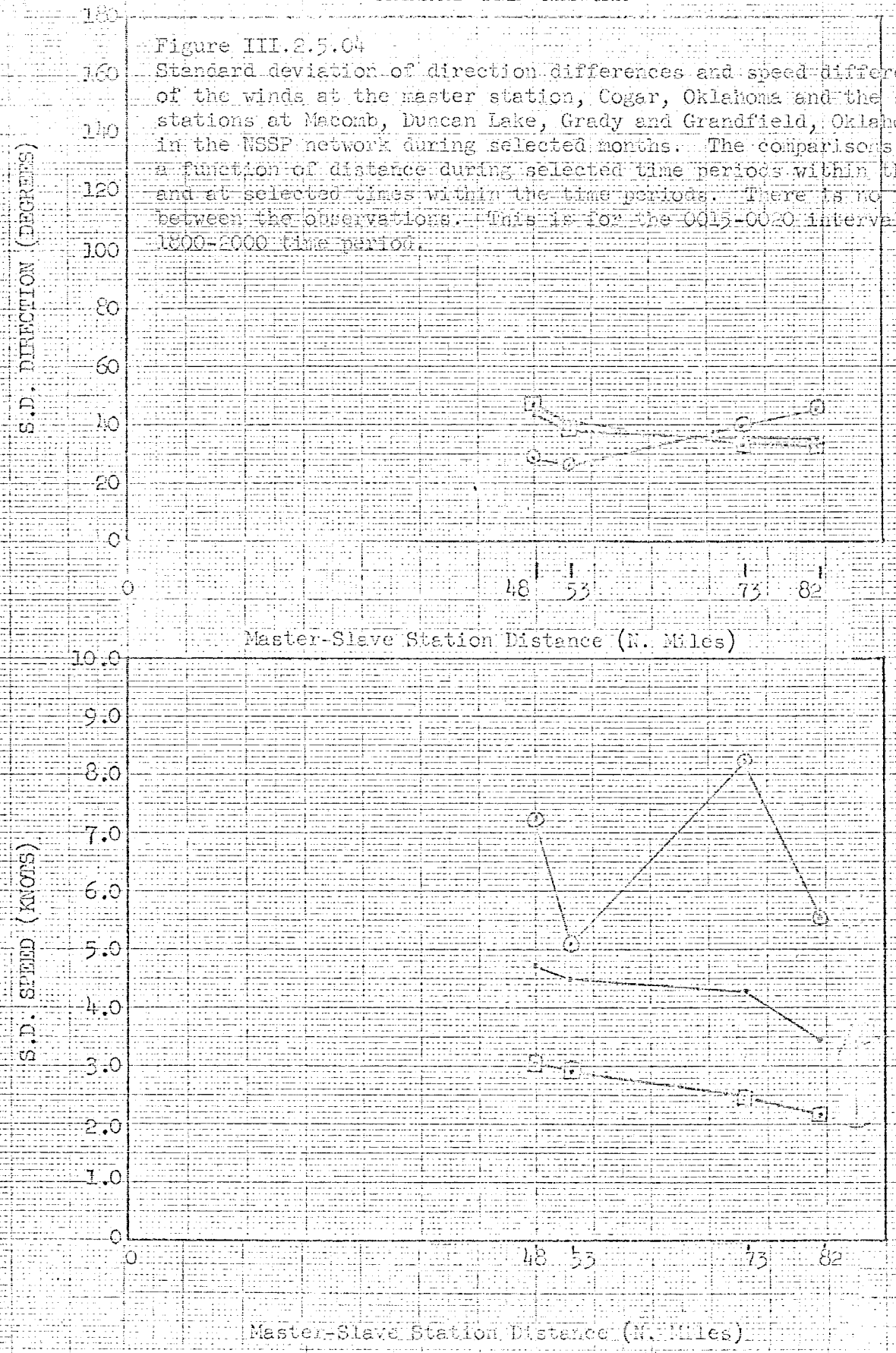


TIME PERIOD 5 TIME GROUP 0 15 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA MESA NETWORK

Figure III.2.5.04
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0015-0020 interval from 1800-2000 time period.

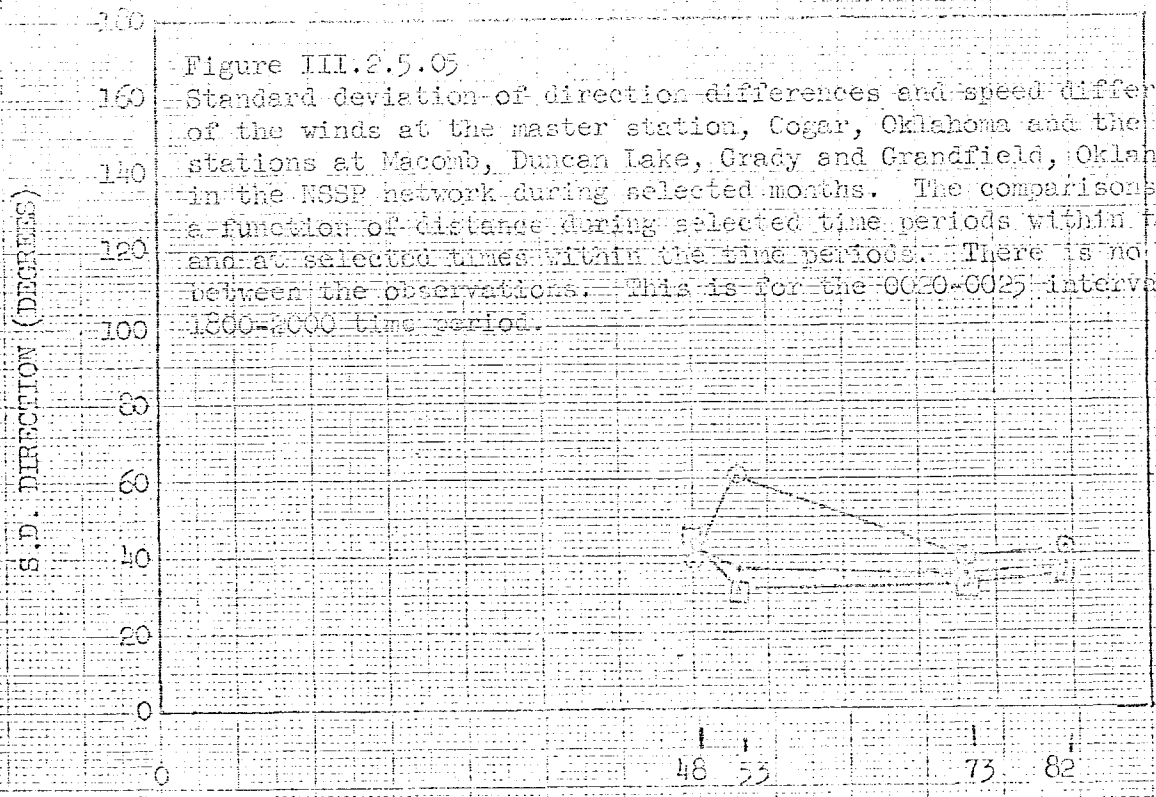


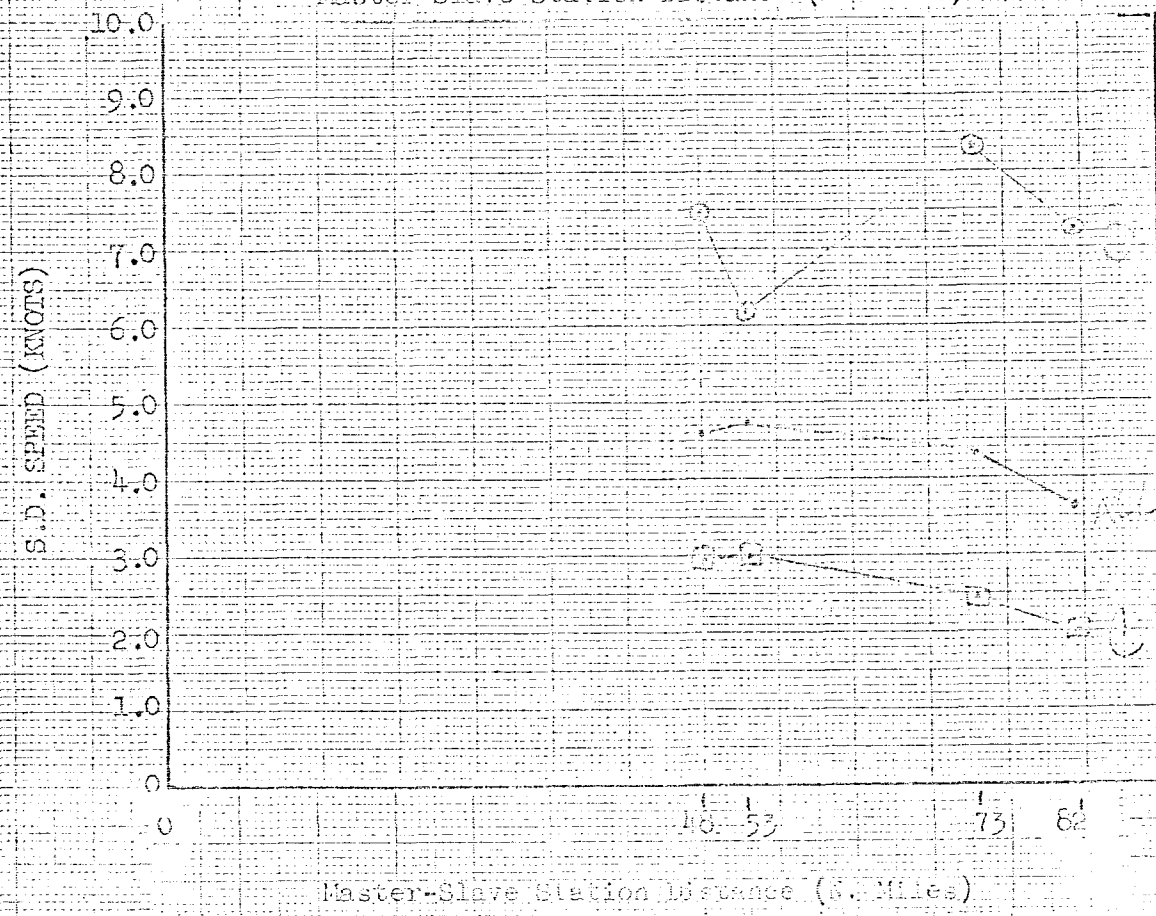
TIME PERIOD 5 TIME GROUP 04 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.2.5.05
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0020-0025 interval from 1800-2000 time period.



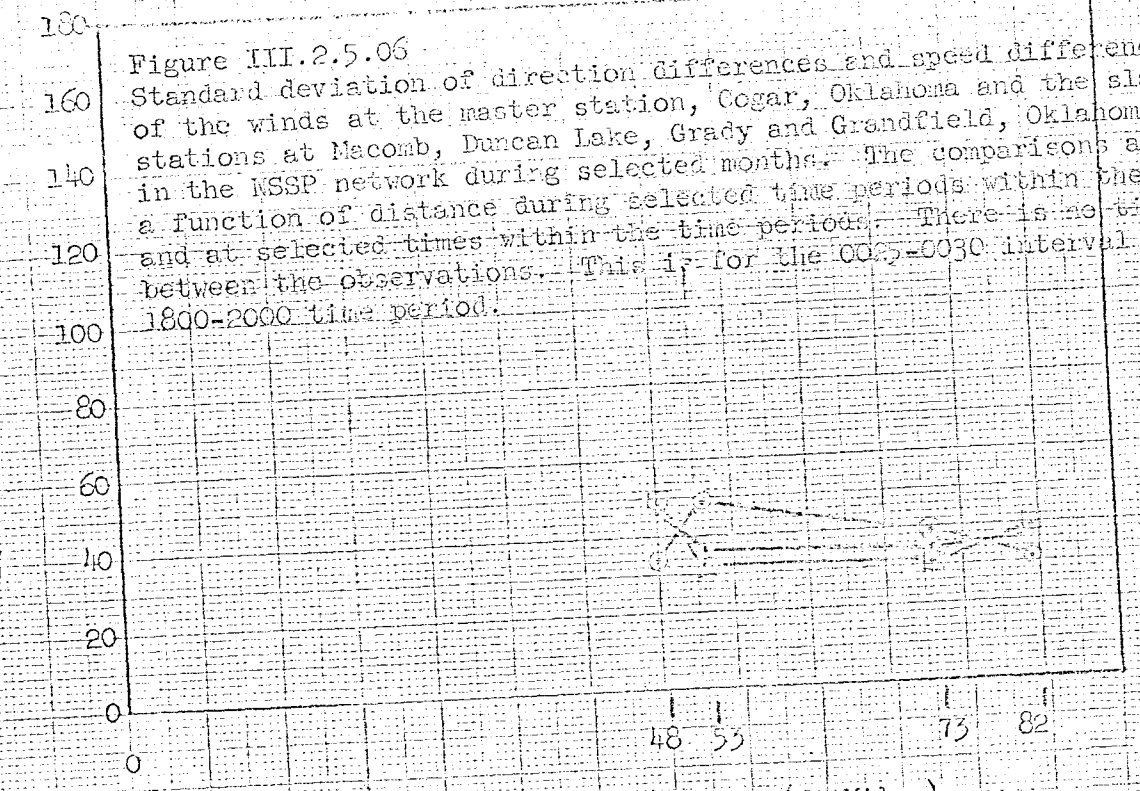


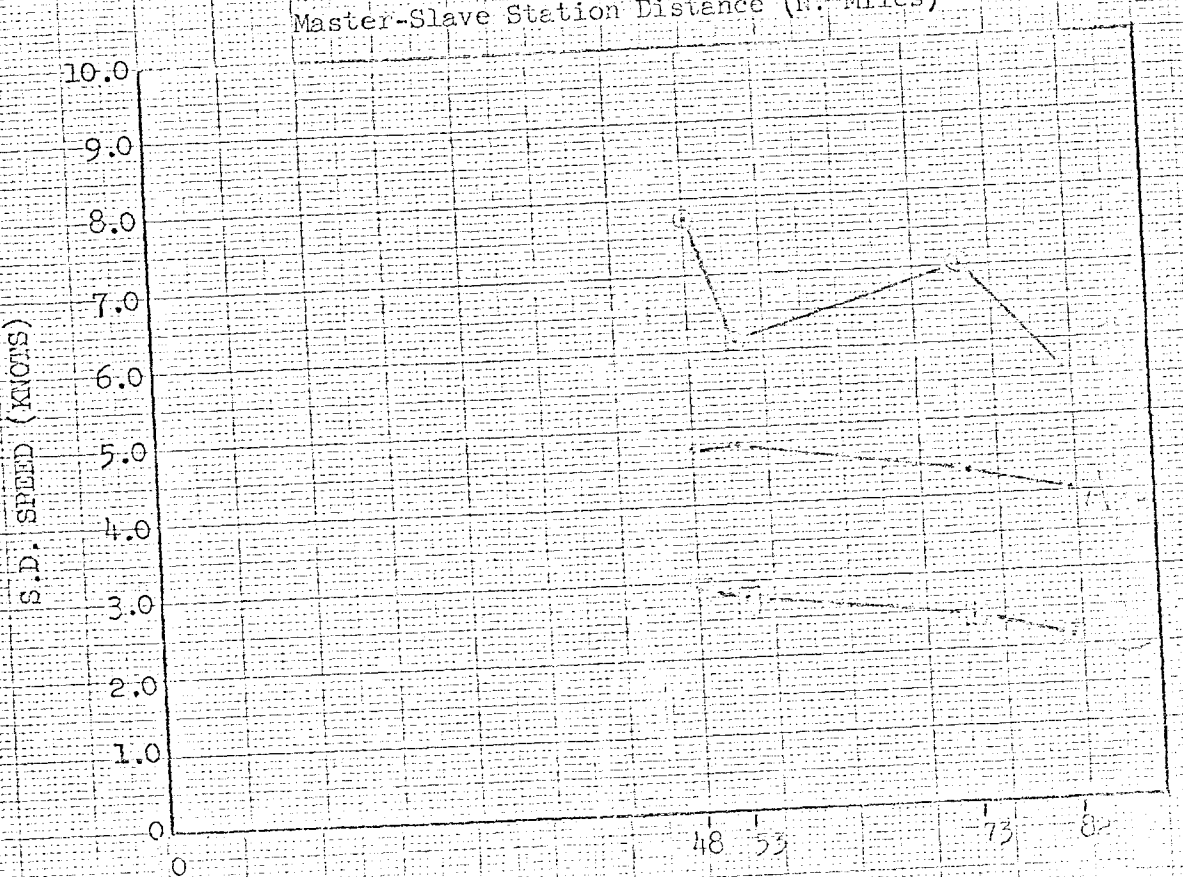
TIME PERIOD 5 TIME GROUP 05 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.2.5.06
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0025-0030 interval from 1800-2000 time period.



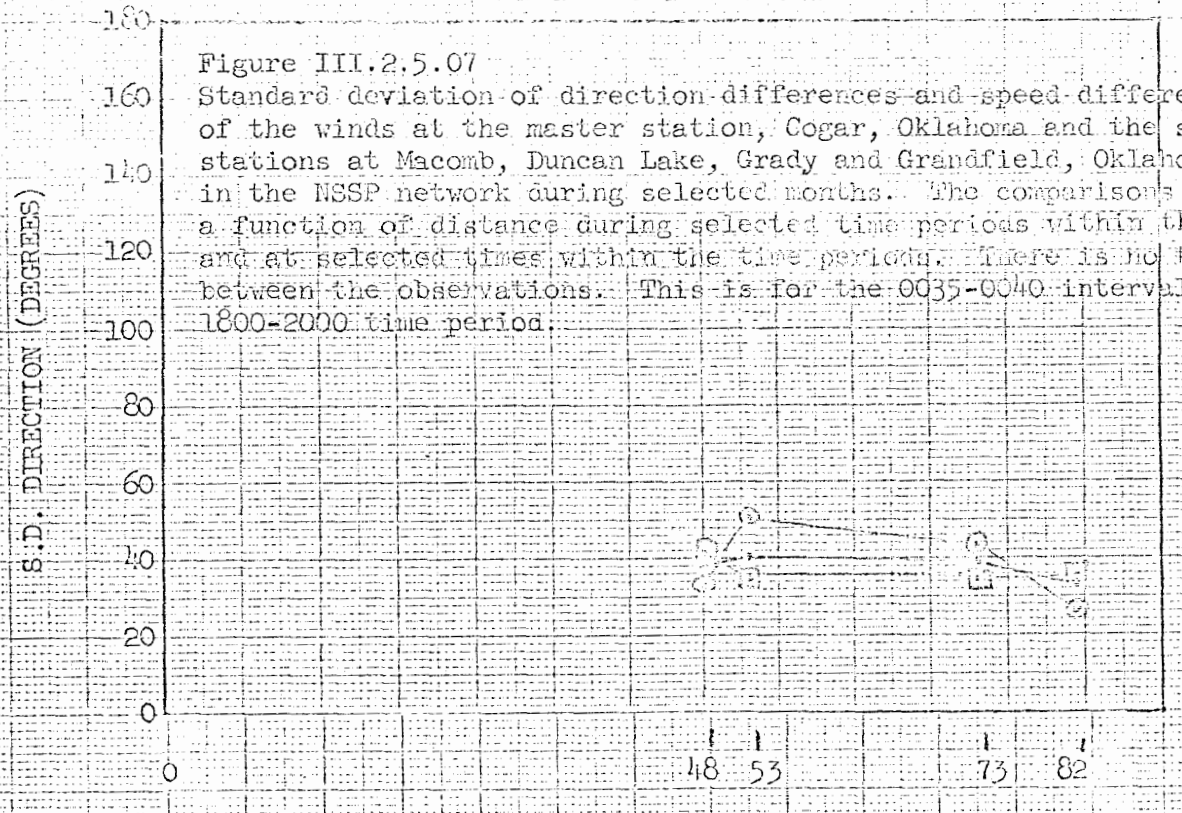


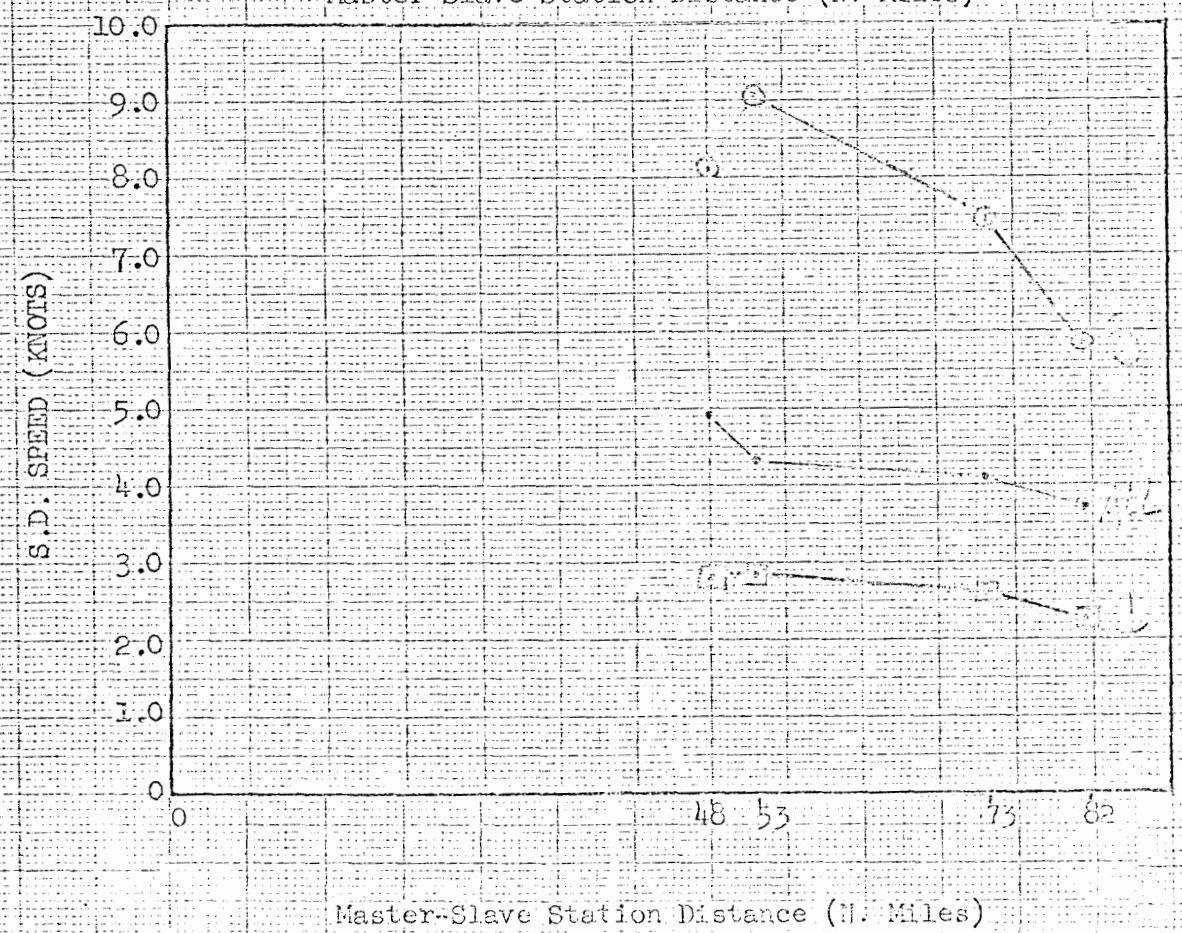
TIME PERIOD 5 TIME GROUP 06 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA ERGA NETWORK

Figure III.2.5.07
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0035-0040 interval from 1800-2000 time period.

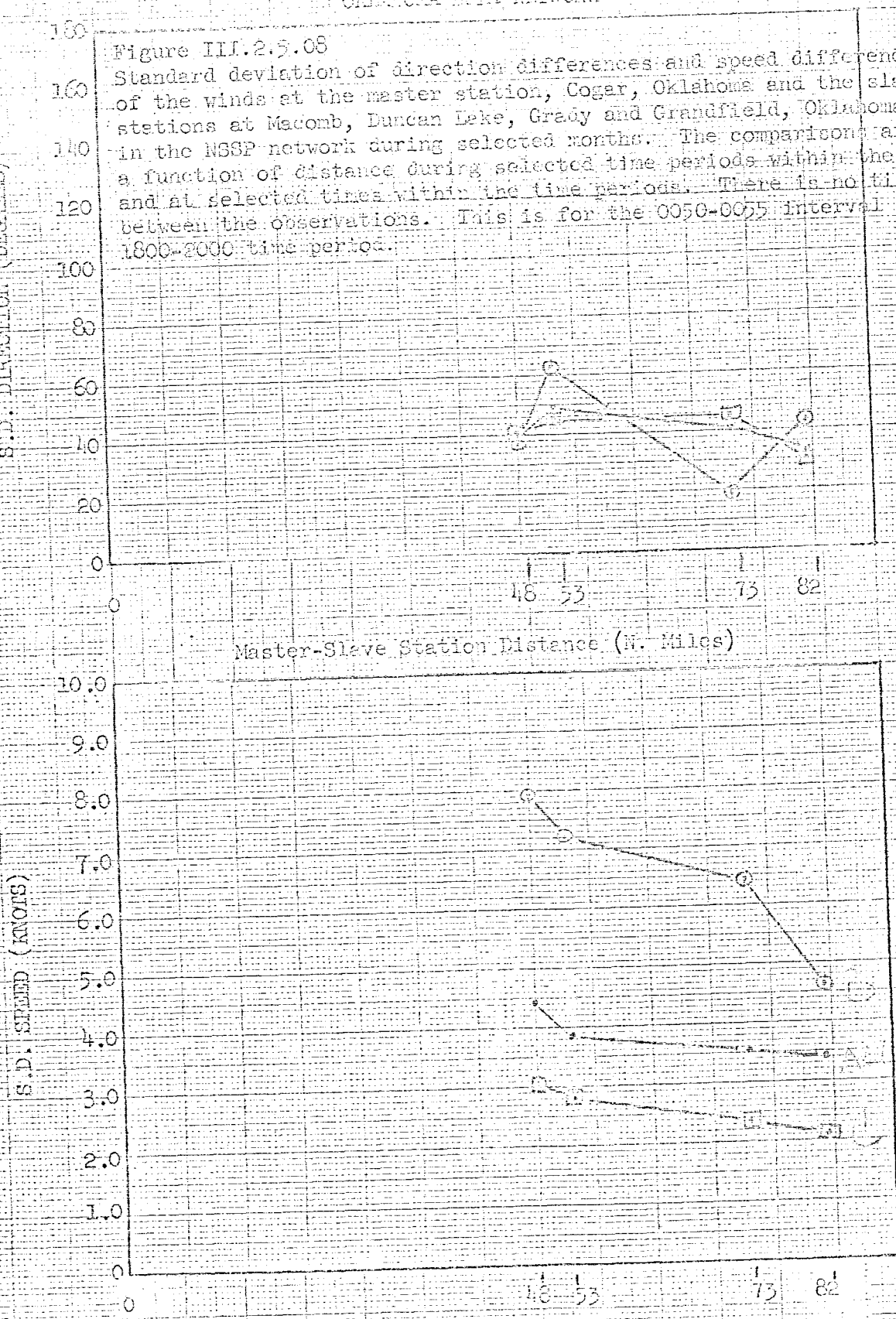




TIME PERIOD 5 TIME GROUP 07 LAG 00

KEUFFEL & ESSER CO.

Figure III.2.5.08
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0050-0055 interval from 1800-2000 time period.

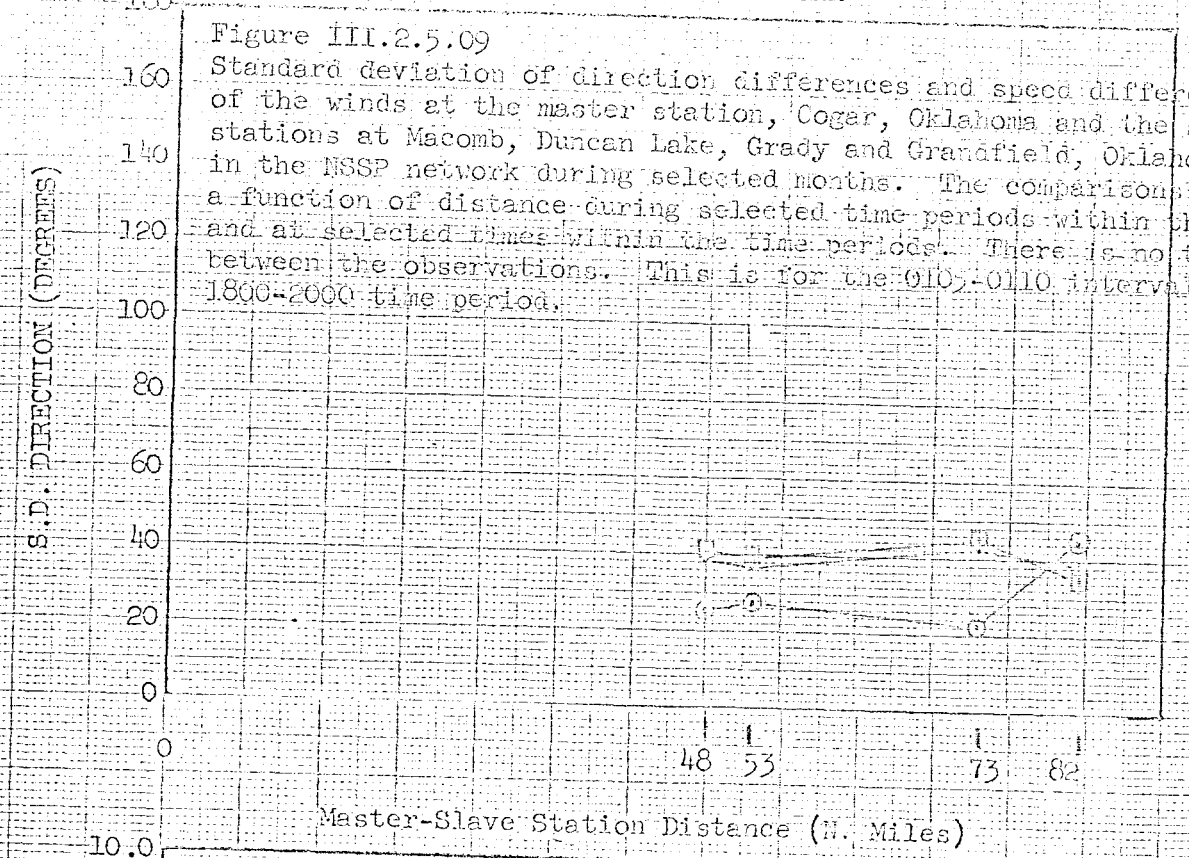


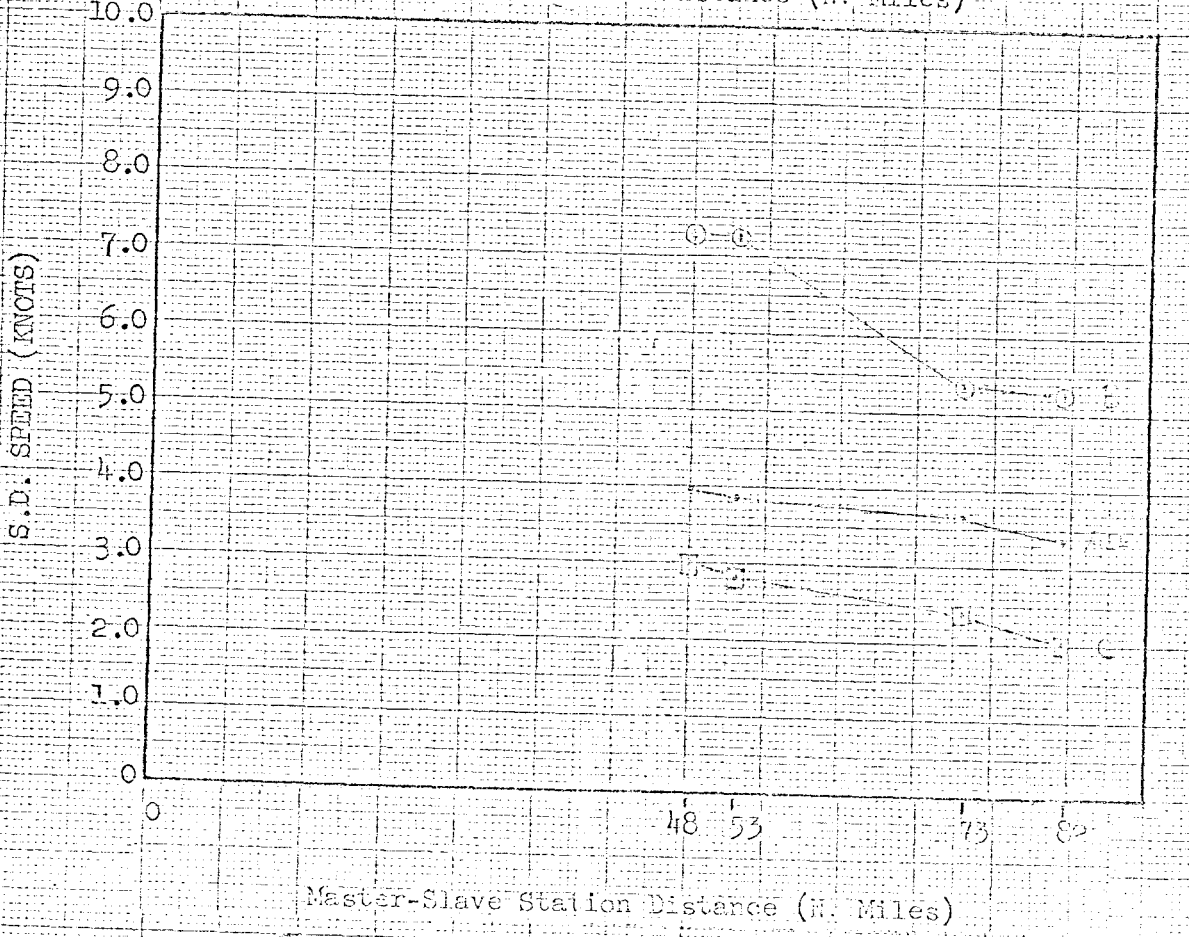
TIME PERIOD 55 TIME GROUP 05 LAG 00

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.2.5.09
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0105-0110 interval from 1800-2000 time period.

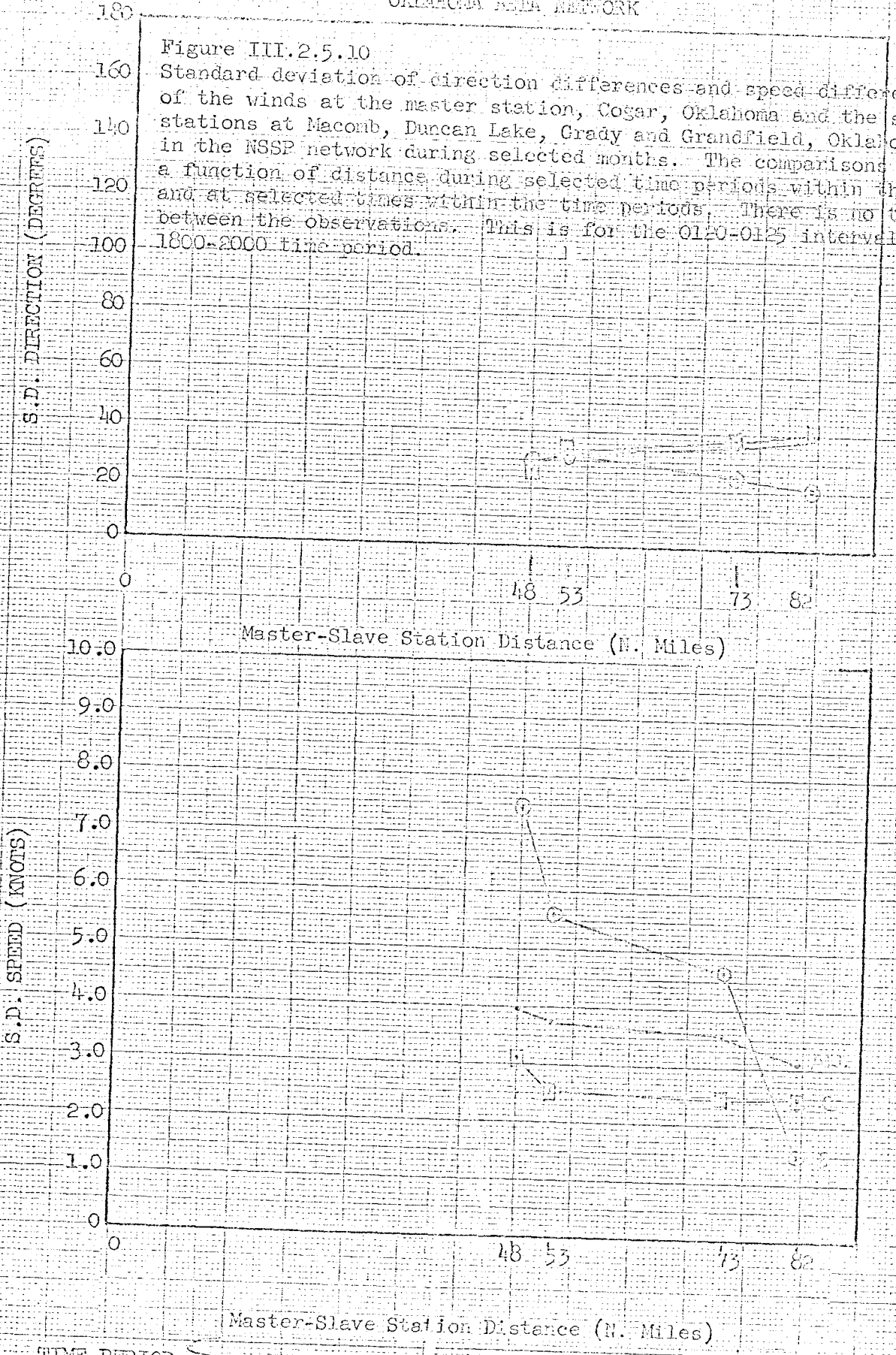




TIME PERIOD 5 TIME GROUP 09 LAG 00

OKLAHOMA RDTA NETWORK

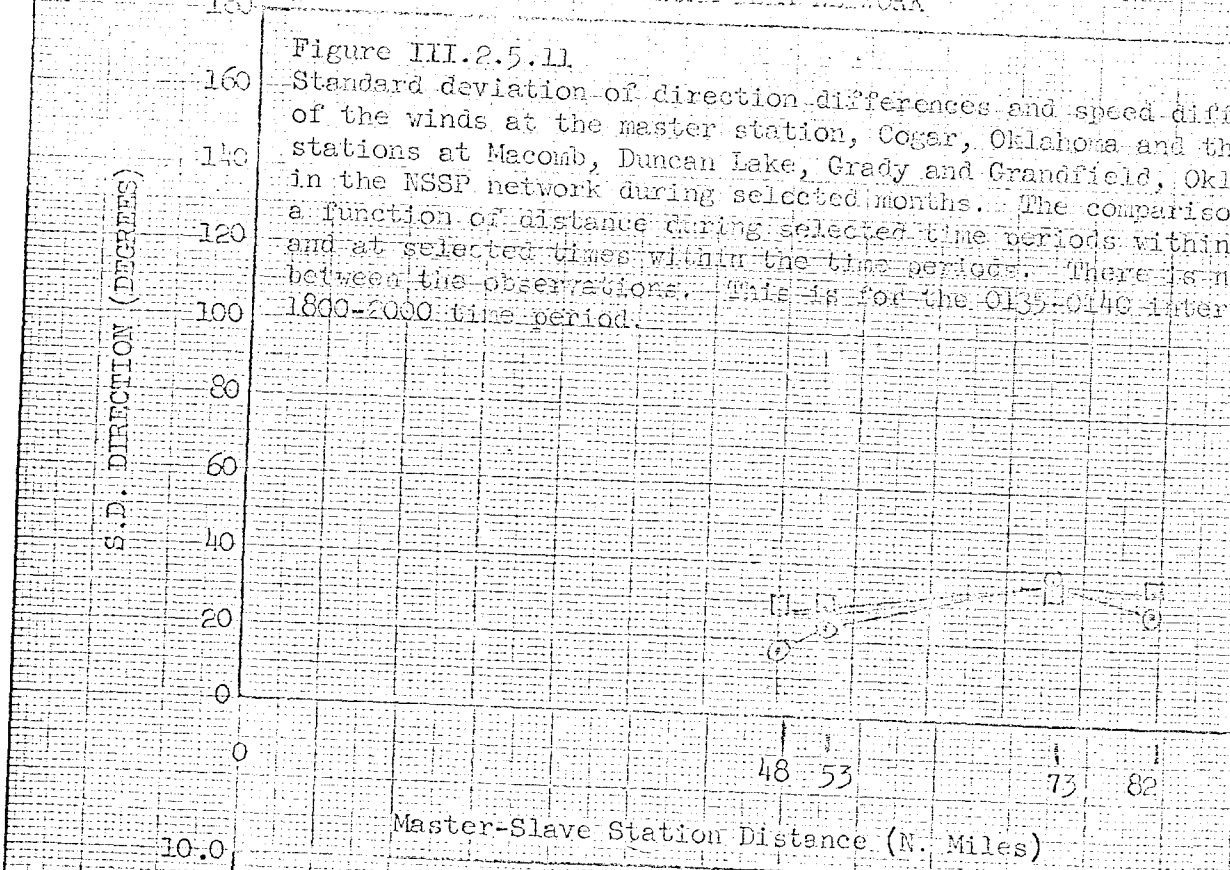
Figure III.2.5.10
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Maconb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0120-0125 interval from 1800-2000 time period.

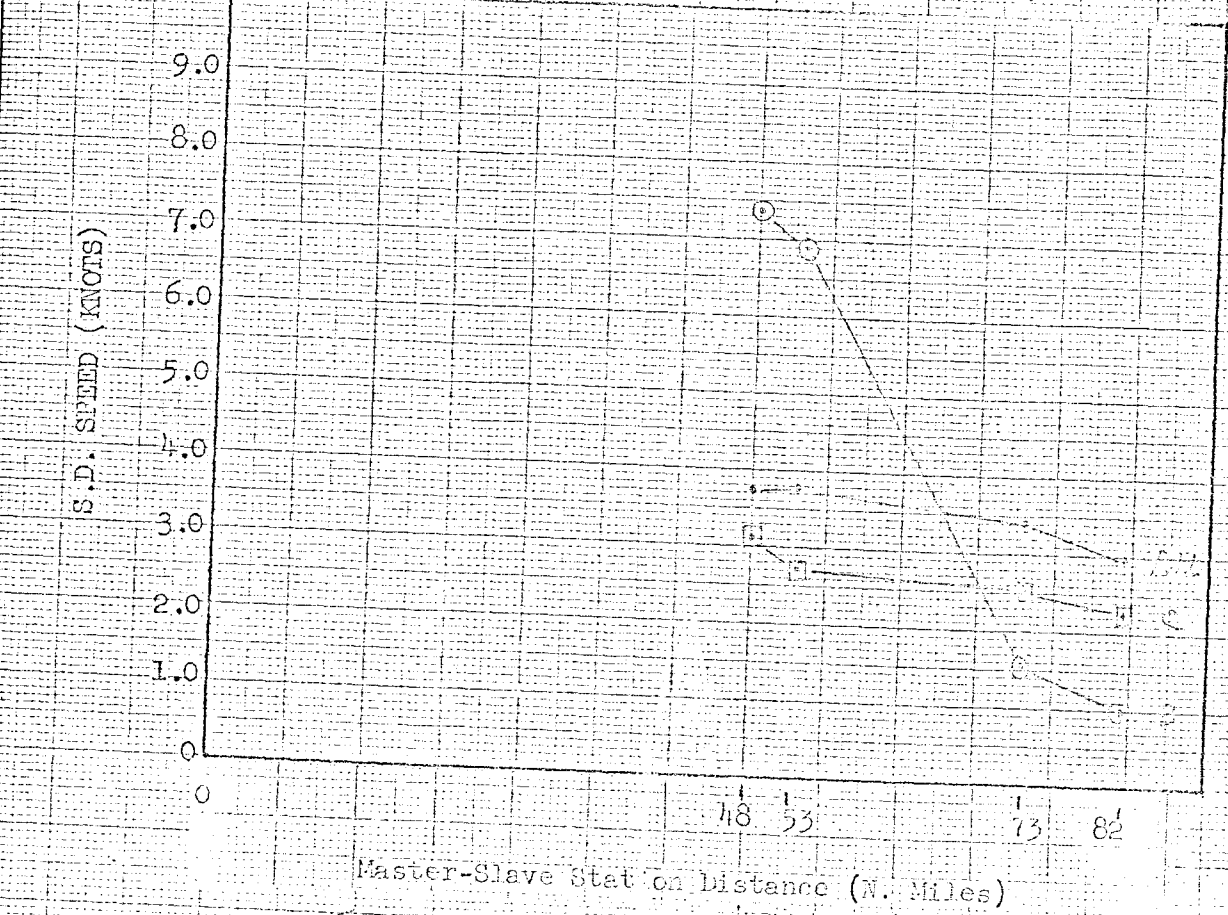


TIME PERIOD 5 TIME GROUP 10 LAG 00

KEUFFEL & ESSER CO.

Figure III.2.5.11
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0135-0140 interval from 1800-2000 time period.





TIME PERIOD 5 TIME GROUP 1 LAG 00

KEUFFEL & ESSER CO.

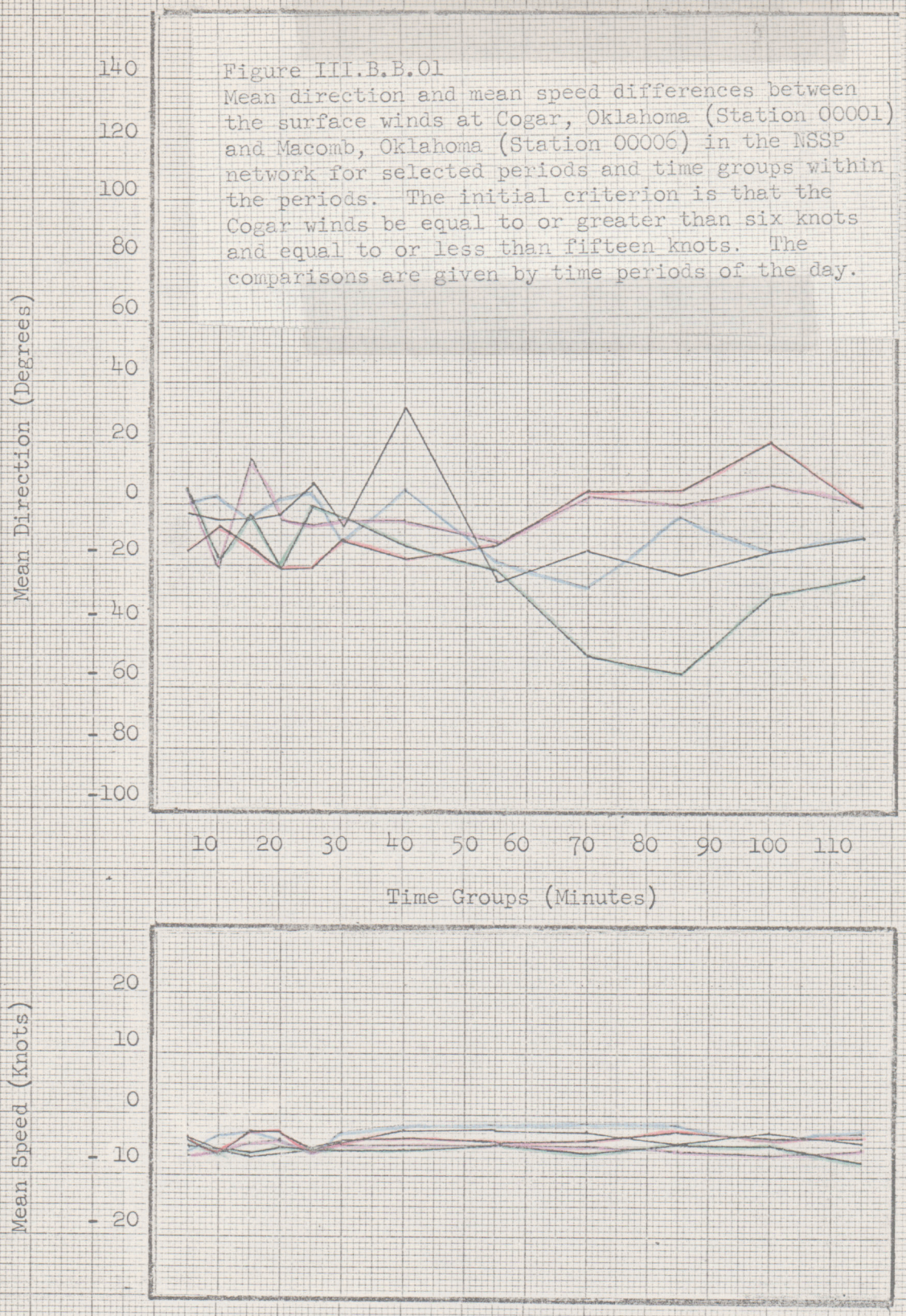
OKLAHOMA BETA NETWORK

Figure III.2.5.12
Standard deviation of direction differences and speed differences of the winds at the master station, Cogar, Oklahoma and the slave stations at Macomb, Duncan Lake, Grady and Grandfield, Oklahoma in the NSSP network during selected months. The comparisons are a function of distance during selected time periods within the day and at selected times within the time periods. There is no time lag between the observations. This is for the 0150-0155 interval from 1800-2000 time period.

TIME PERIOD 5 TIME GROUP 12 LAG 00

KEUFFEL & ESSER CO.

Figure III.B.B.01
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Macomb, Oklahoma (Station 00006) in the NSSP network for selected periods and time groups within the periods. The initial criterion is that the Cogar winds be equal to or greater than six knots and equal to or less than fifteen knots. The comparisons are given by time periods of the day.

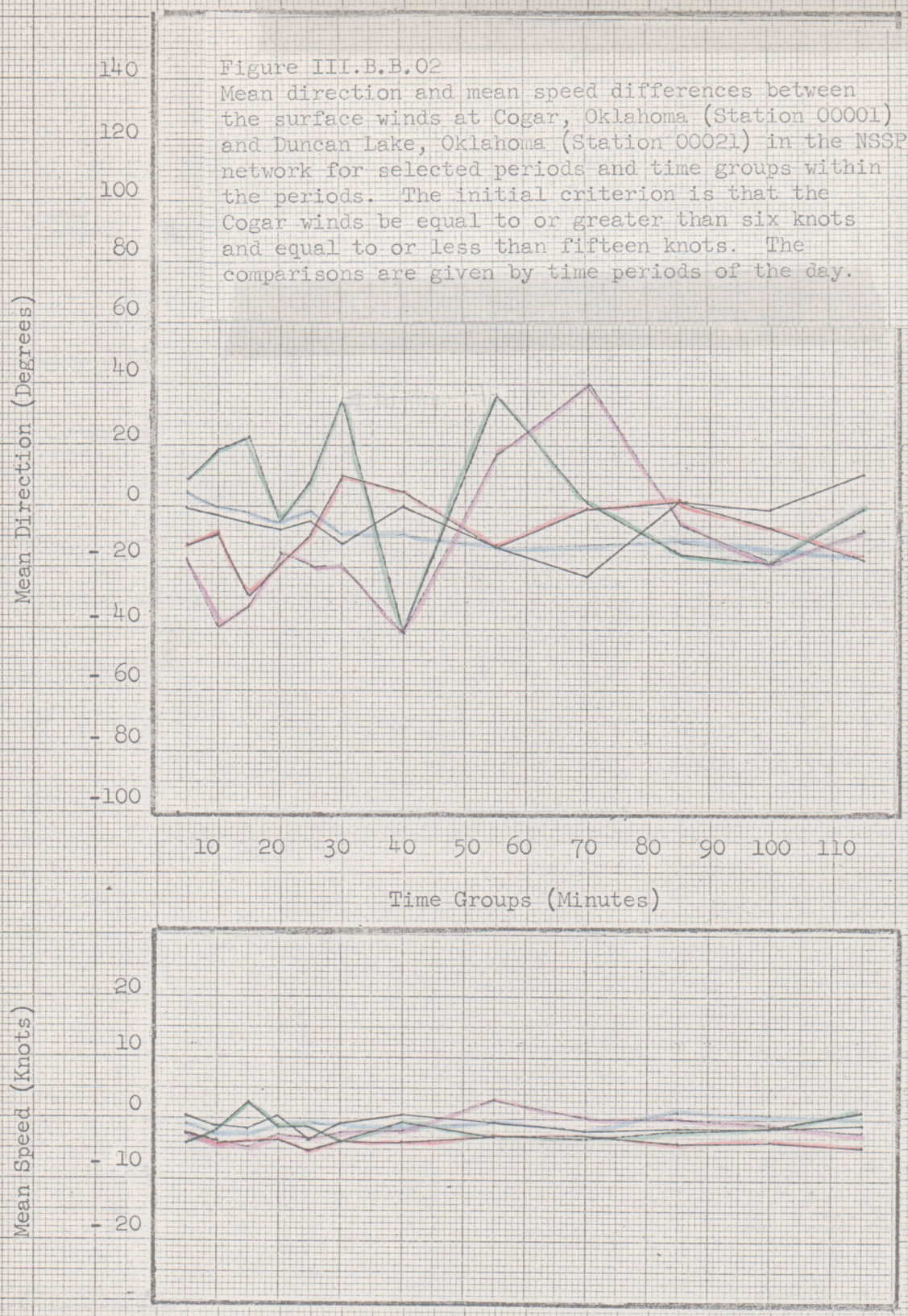


Station 00006 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP "B"

10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.02
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Duncan Lake, Oklahoma (Station 00021) in the NSSP network for selected periods and time groups within the periods. The initial criterion is that the Cogar winds be equal to or greater than six knots and equal to or less than fifteen knots. The comparisons are given by time periods of the day.

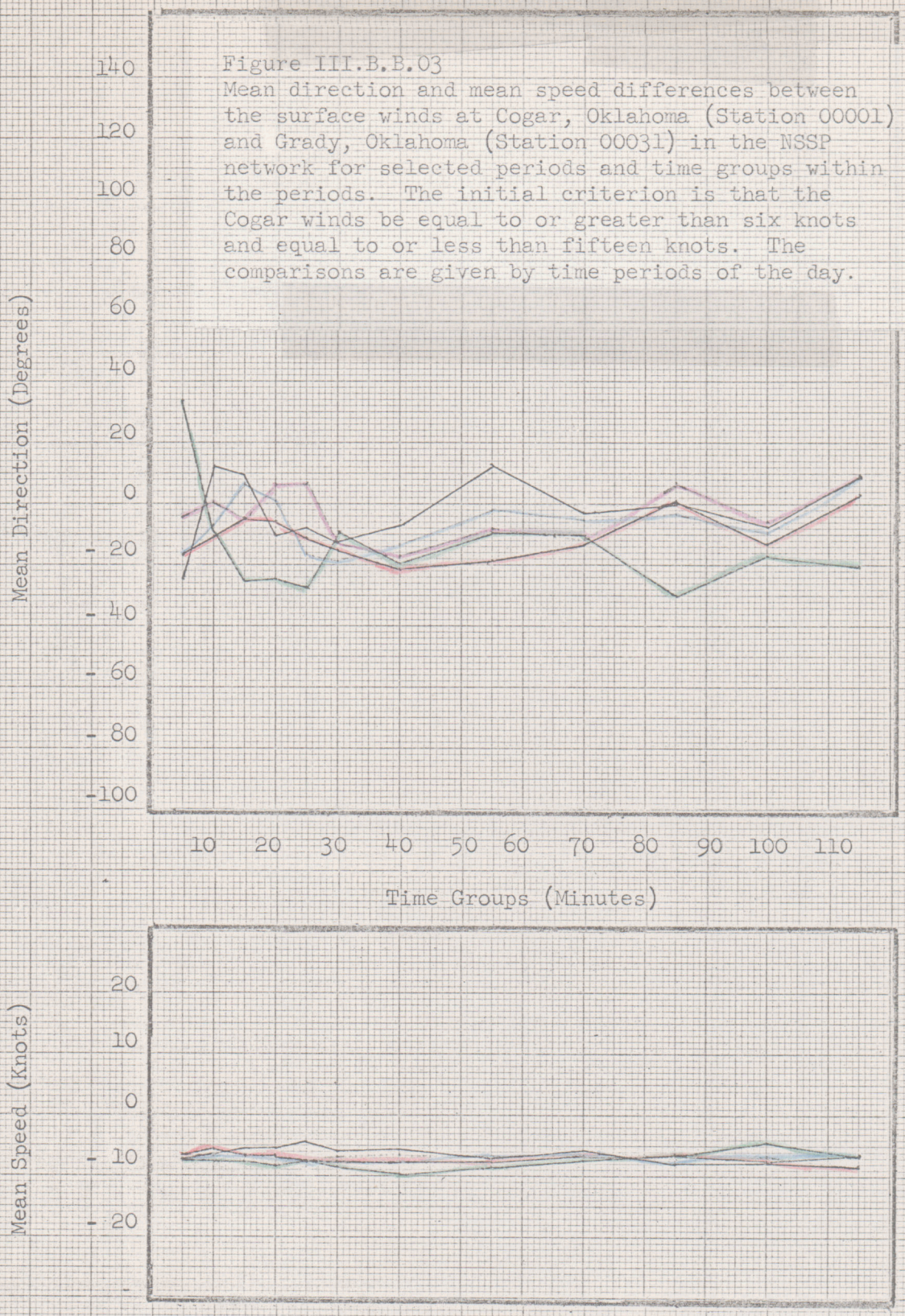


Station 00021 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP "B"

K&E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.03
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Grady, Oklahoma (Station 00031) in the NSSP network for selected periods and time groups within the periods. The initial criterion is that the Cogar winds be equal to or greater than six knots and equal to or less than fifteen knots. The comparisons are given by time periods of the day.

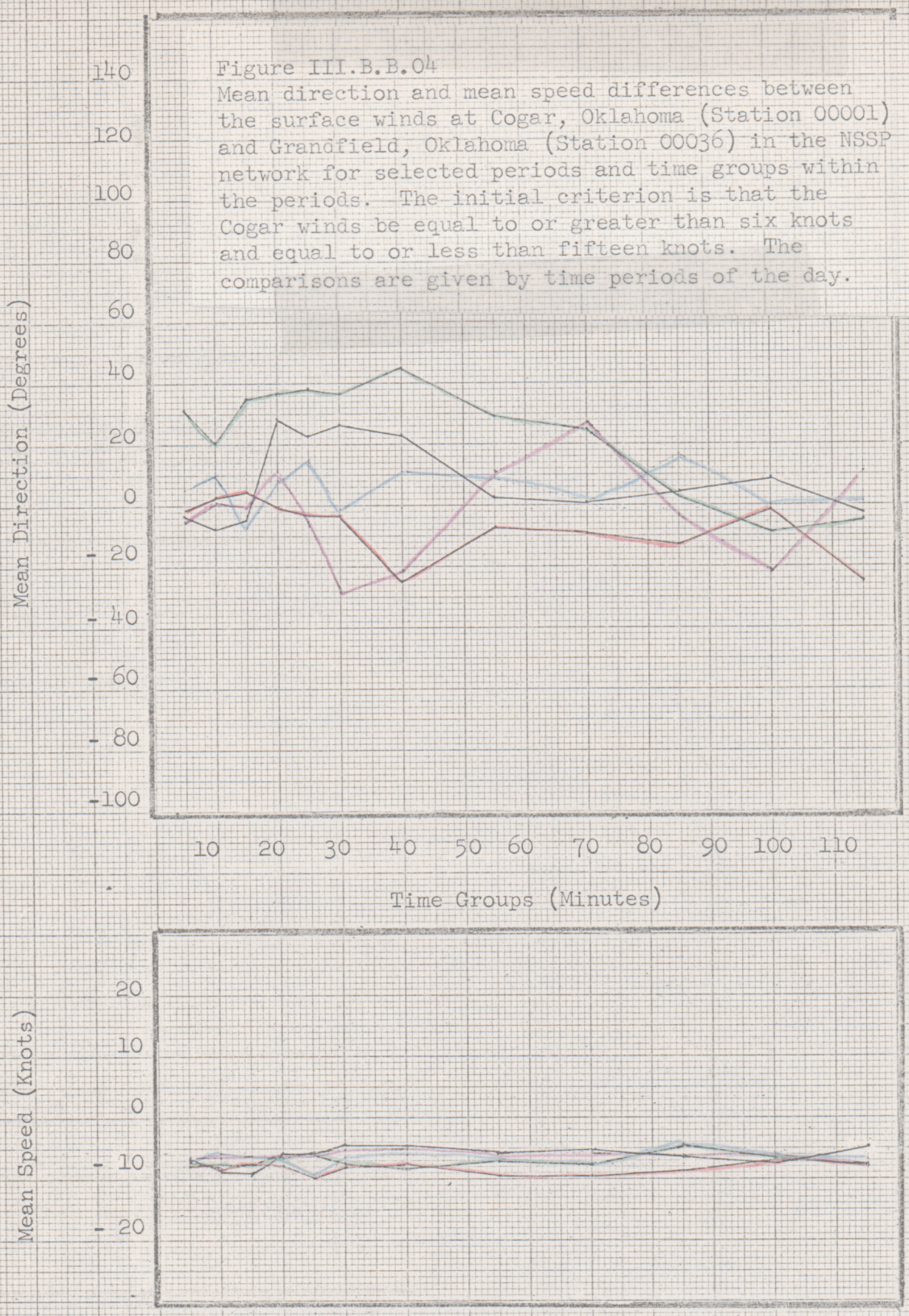


Station 00031 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP "B"

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.04
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Grandfield, Oklahoma (Station 00036) in the NSSP network for selected periods and time groups within the periods. The initial criterion is that the Cogar winds be equal to or greater than six knots and equal to or less than fifteen knots. The comparisons are given by time periods of the day.



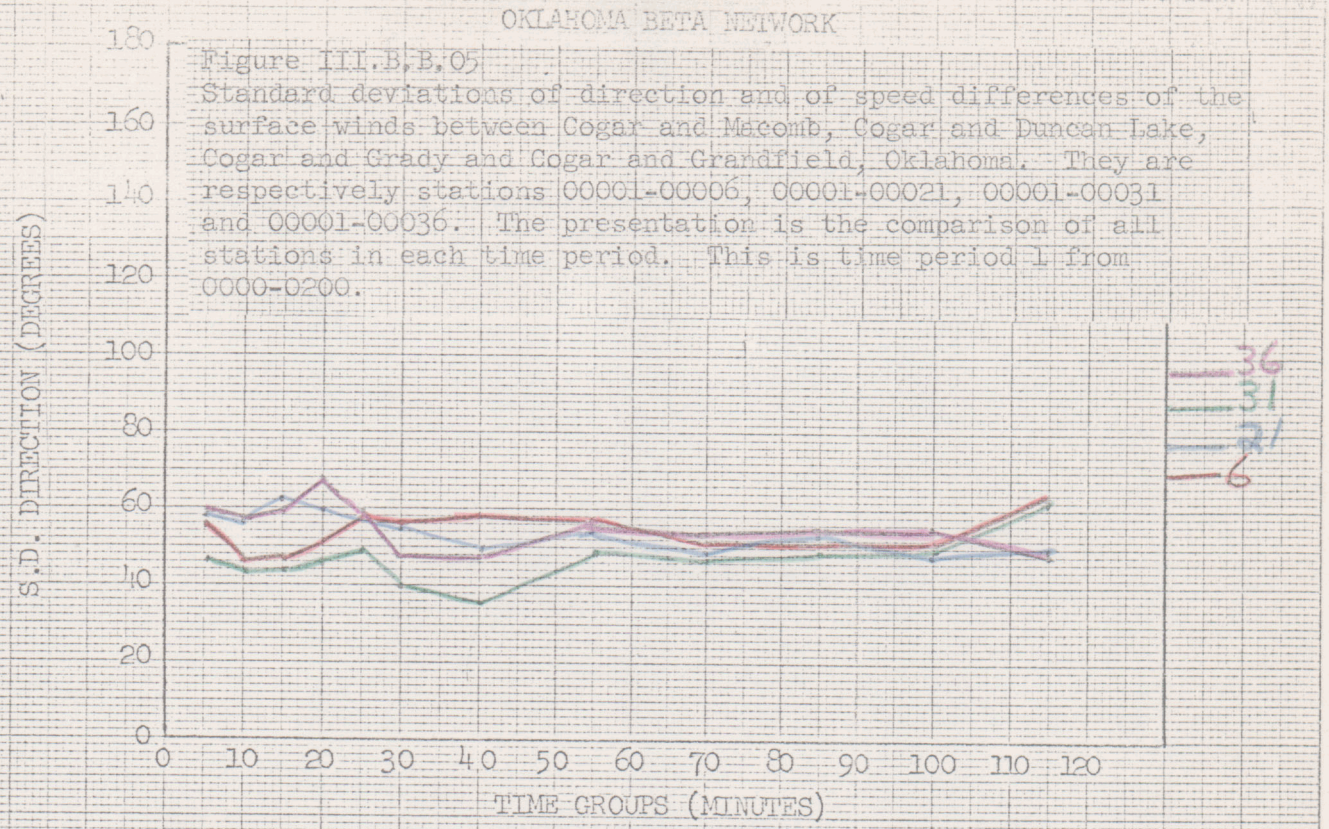
Station 00036 Time Periods 1, 2, 3, 4, 5 Lag 00

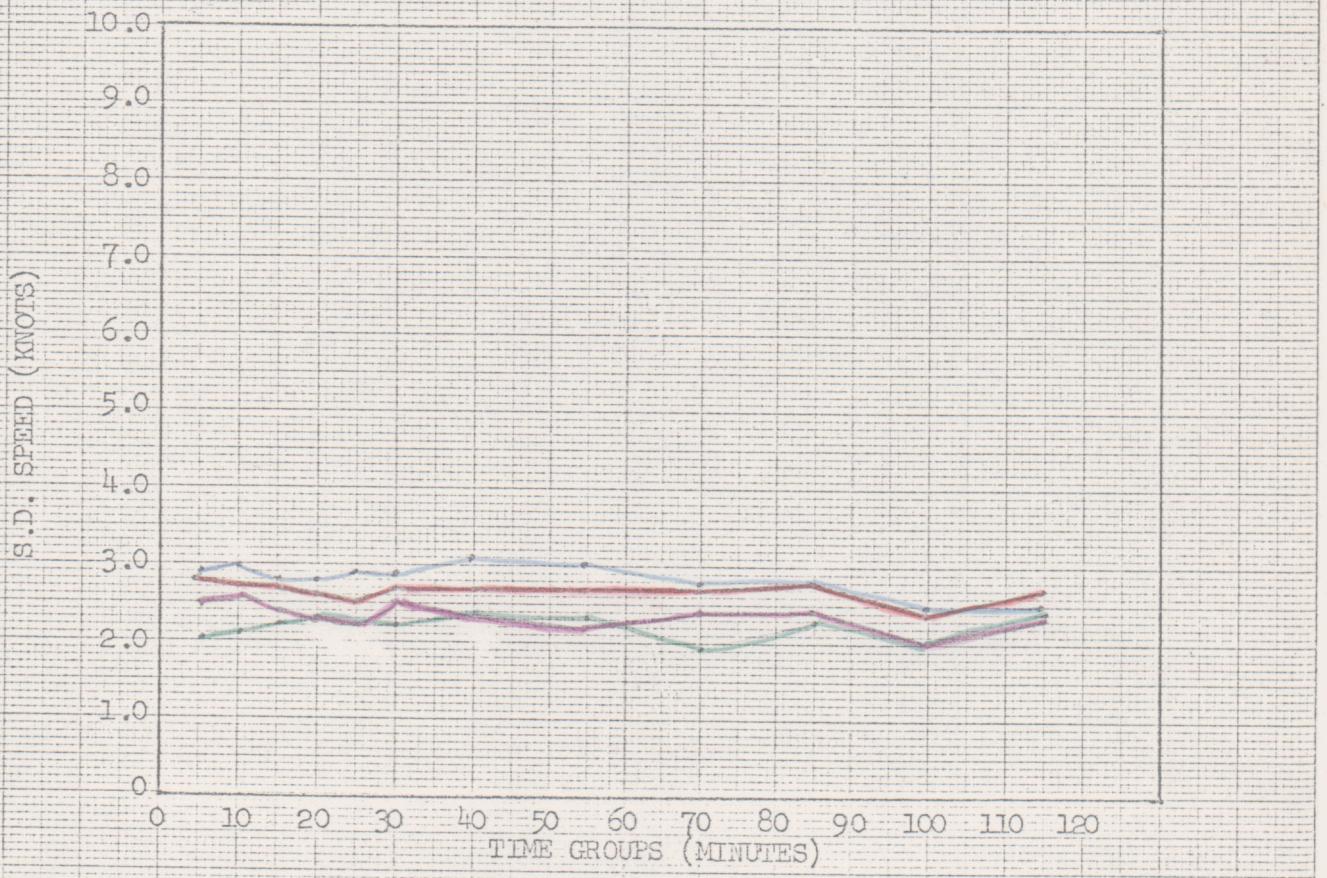
GROUP B

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.B.05
Standard deviations of direction and of speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 1 from 0000-0200.





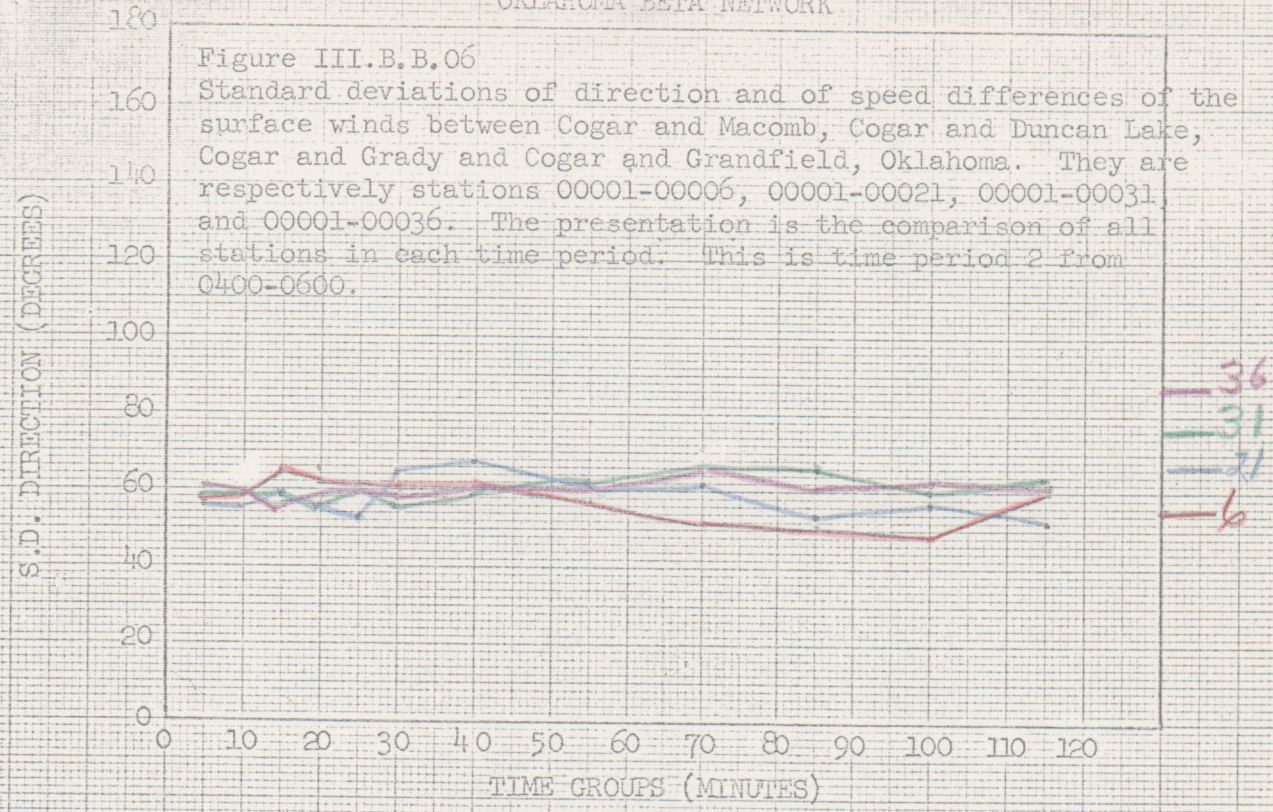
STATION 6, 21, 31, 36 TIME PERIOD 1 LAG 00

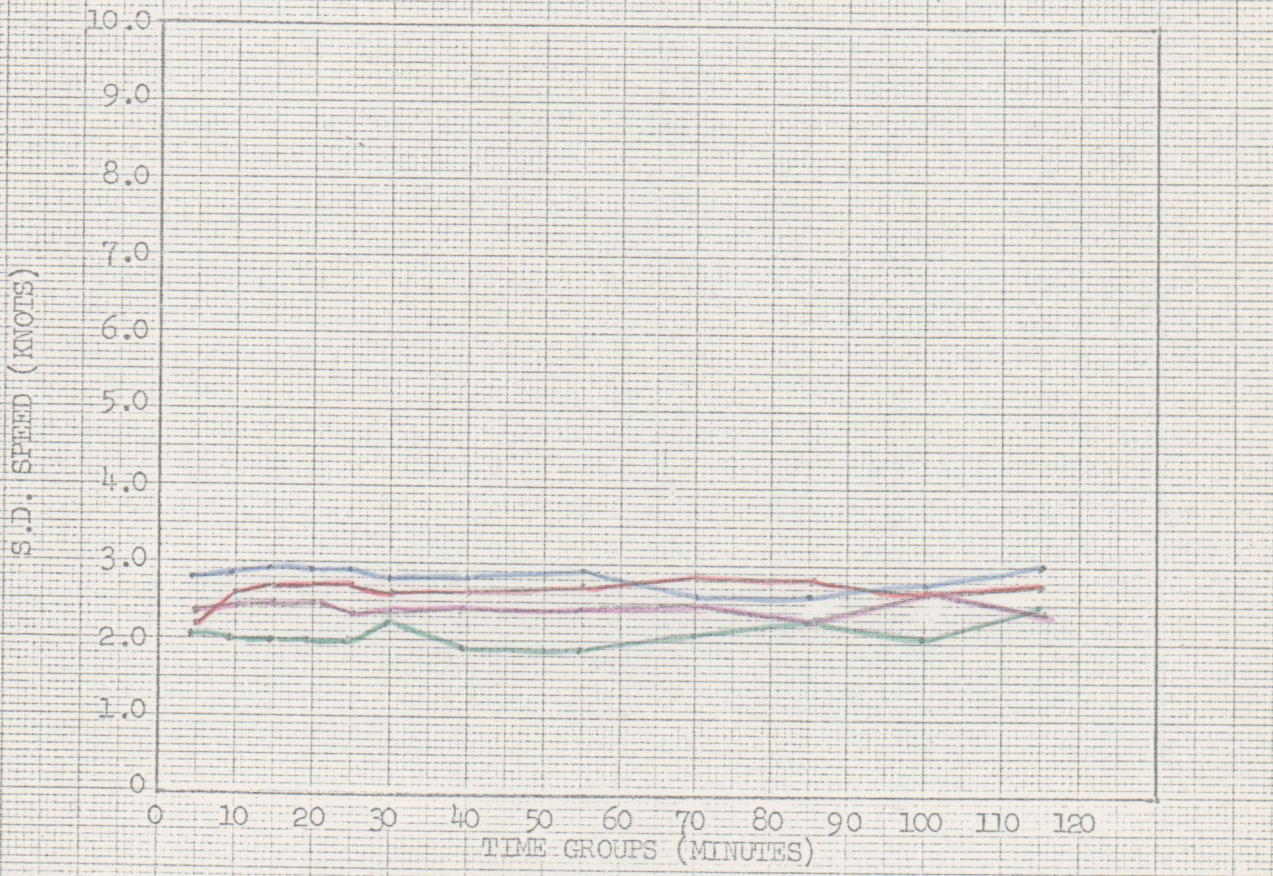
Group "B"

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.B.06
Standard deviations of direction and of speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 2 from 0400-0600.





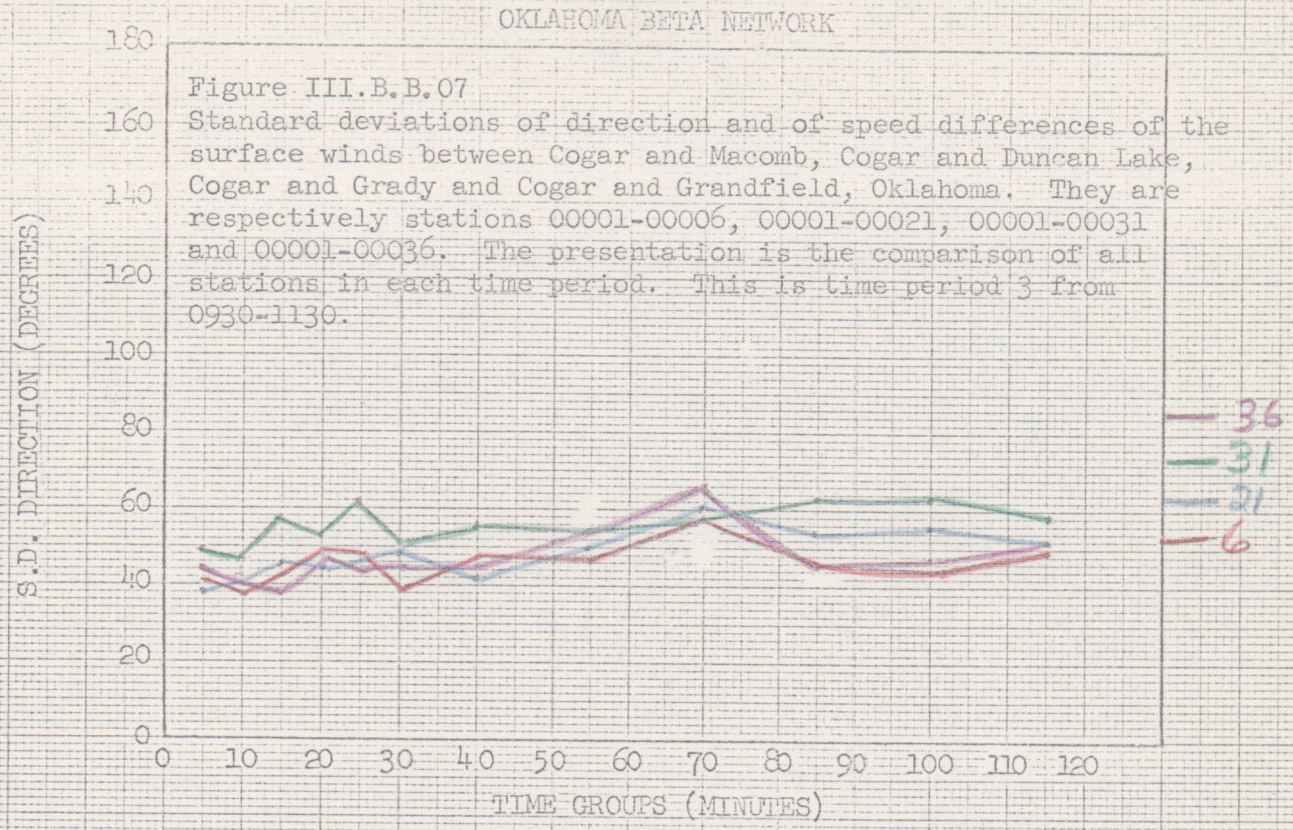
STATION 6, 21, 31, 36 TIME PERIOD 2 LAG 00

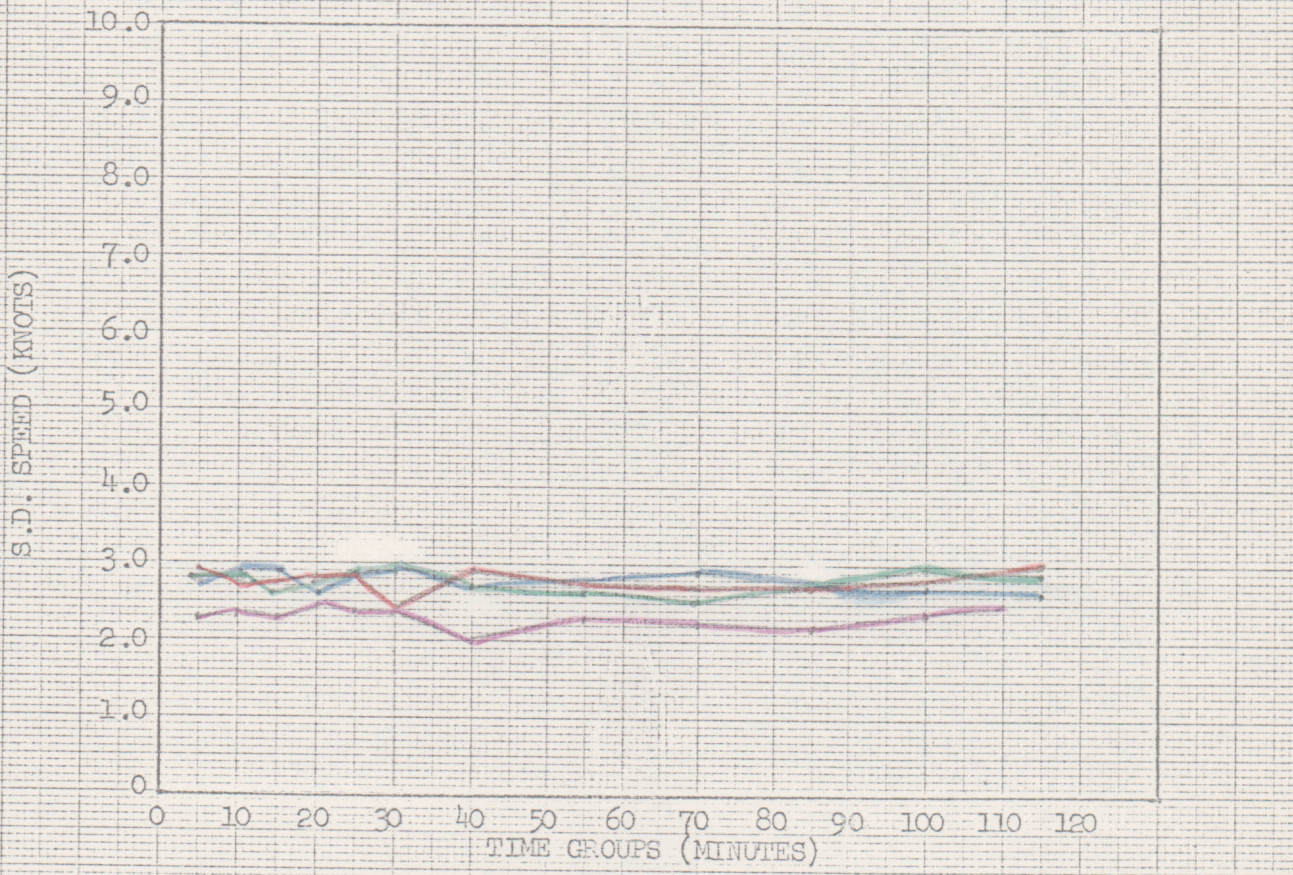
Group "B"

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.B.07
Standard deviations of direction and of speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 3 from 0930-1130.





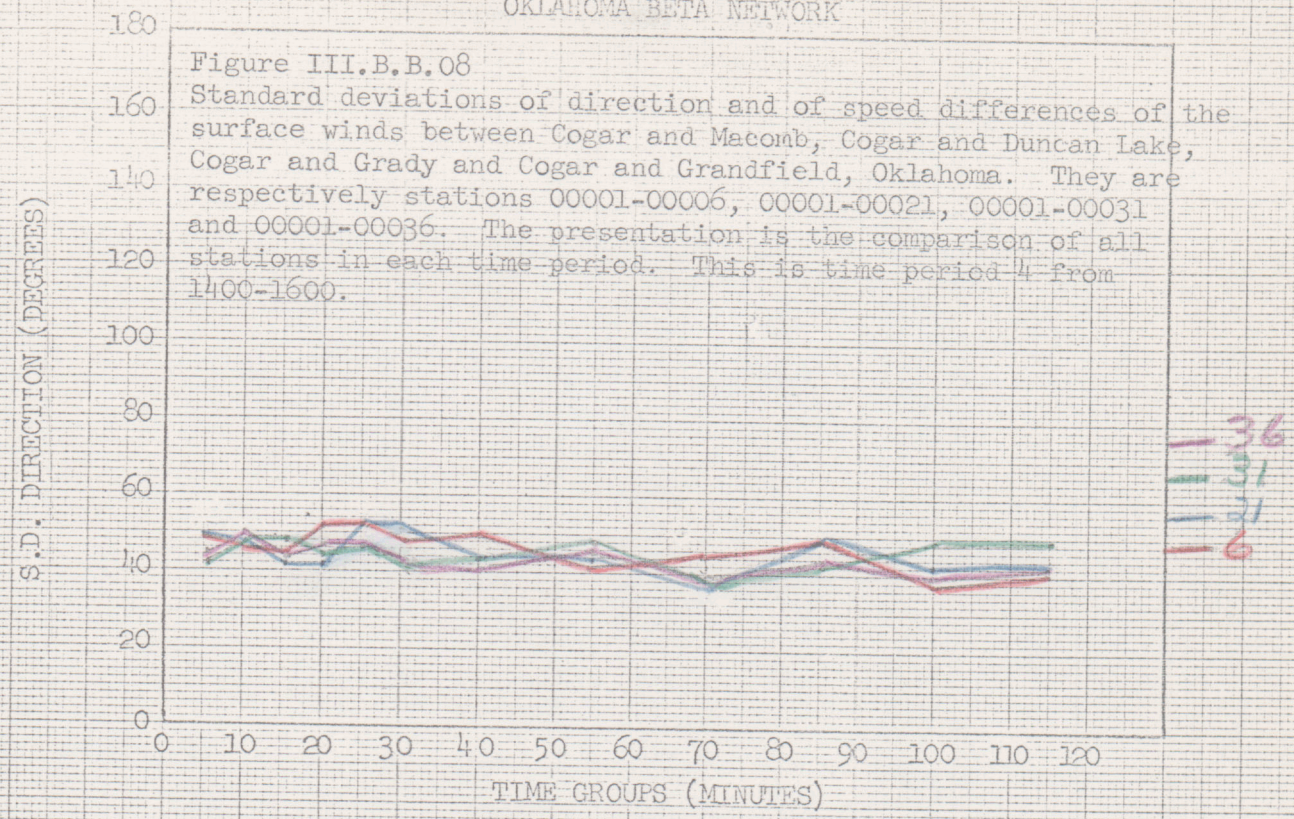
STATION 6, 21, 31, 36 TIME PERIOD 3 LAG 00

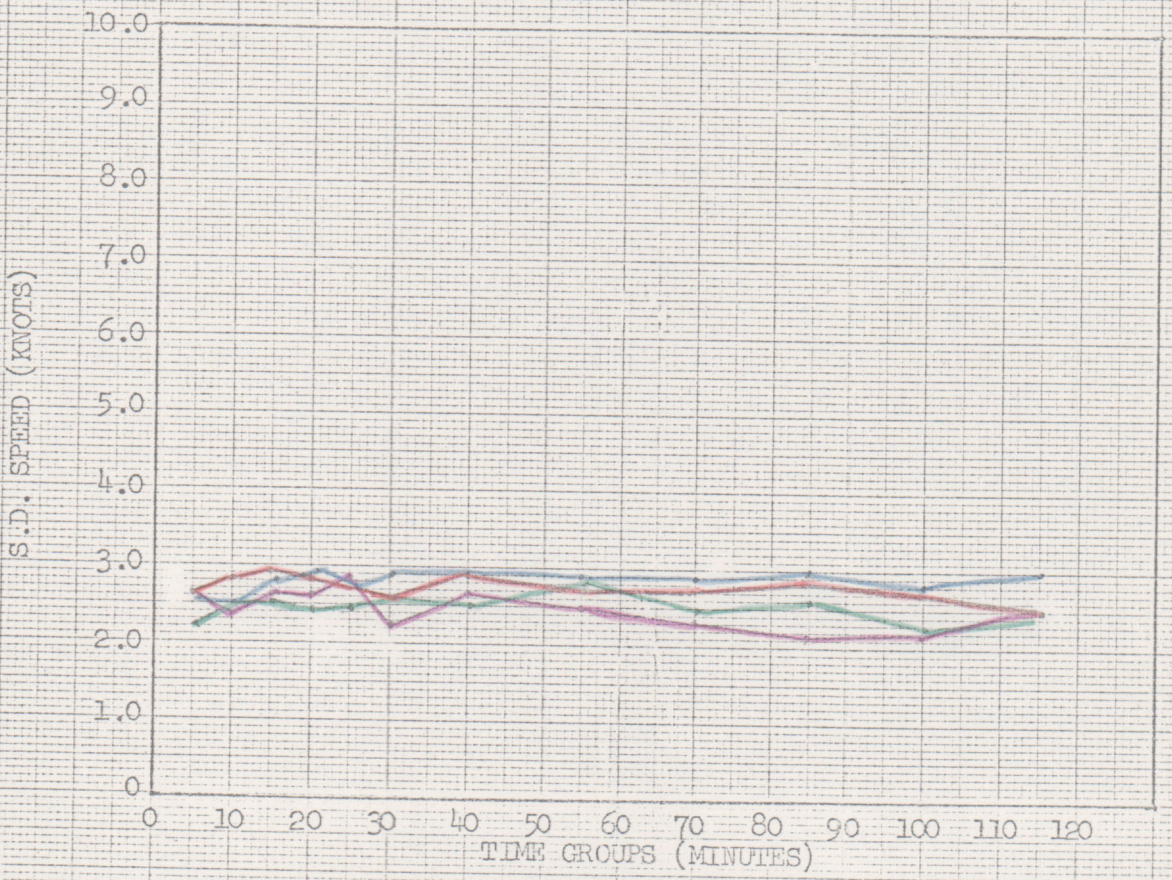
Group "B"

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.B.08
Standard deviations of direction and of speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 4 from 1400-1600.





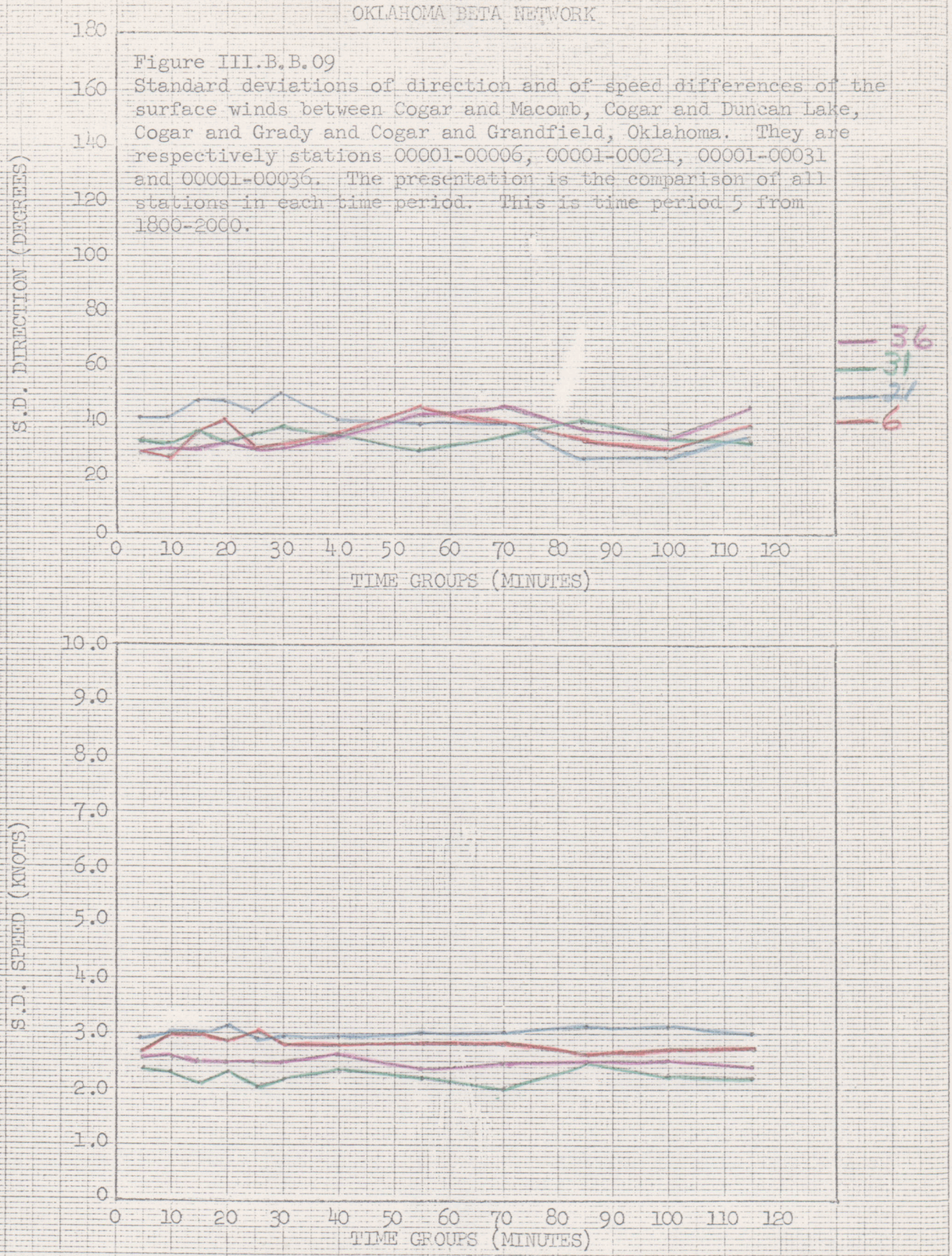
STATION 6, 21, 31, 36 TIME PERIOD 4 LAG 00

Group "B"

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.B.09
Standard deviations of direction and of speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 5 from 1800-2000.

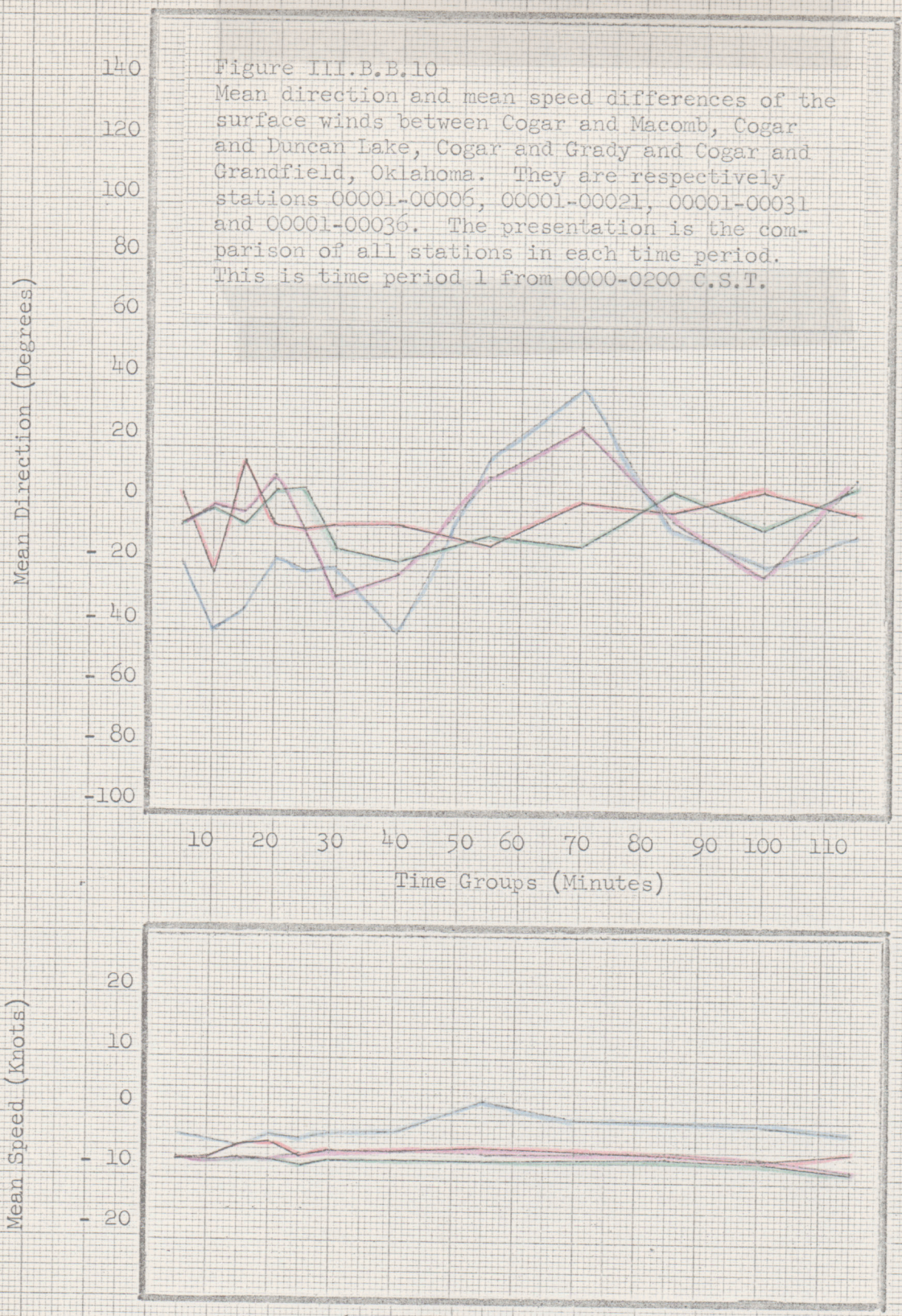


STATION 6, 21, 31, 36 TIME PERIOD 5 LAG 00

Group "B"

KEUFFEL & ESSER CO.

Figure III.B.B.10
Mean direction and mean speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 1 from 0000-0200 C.S.T.

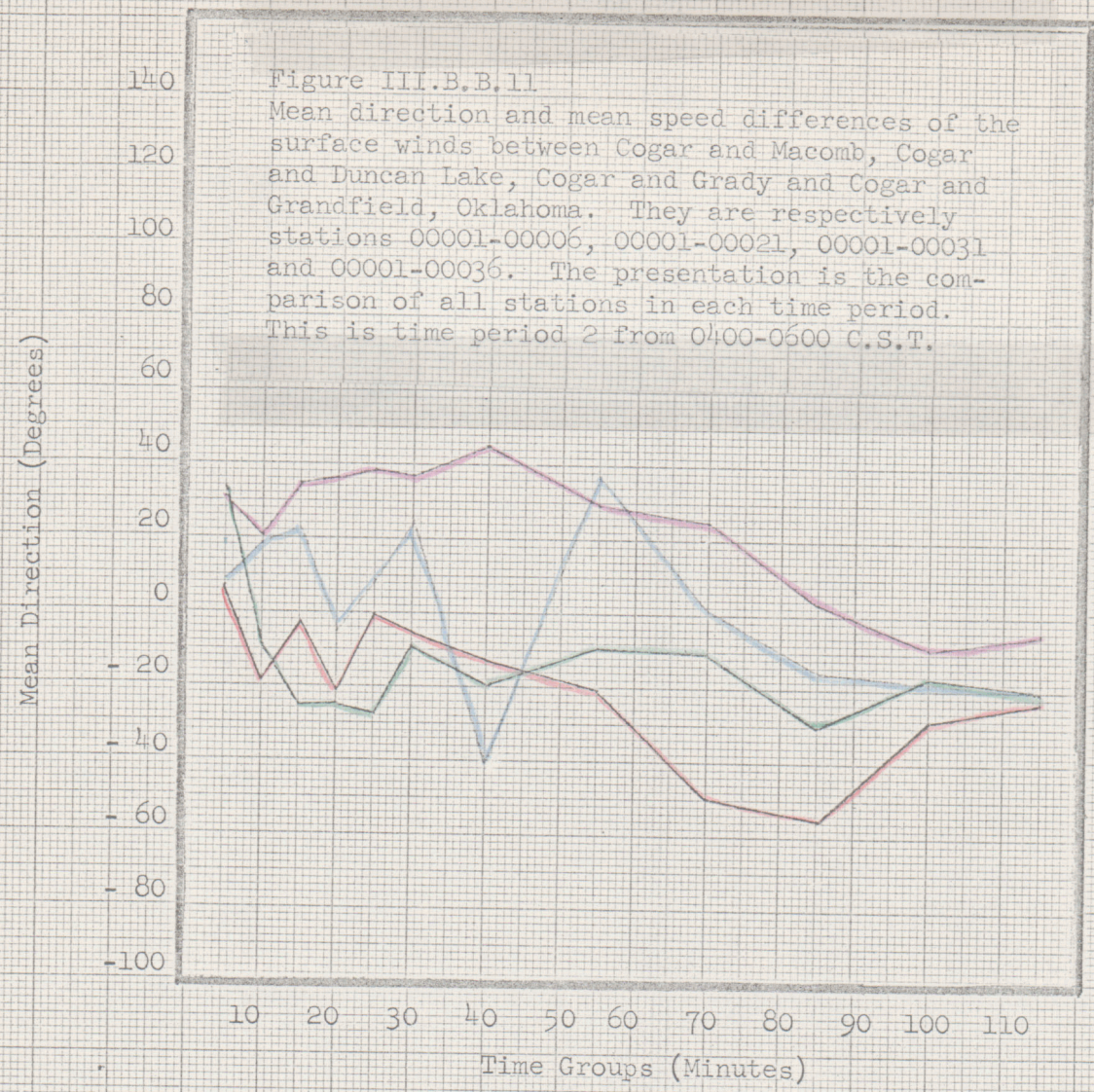


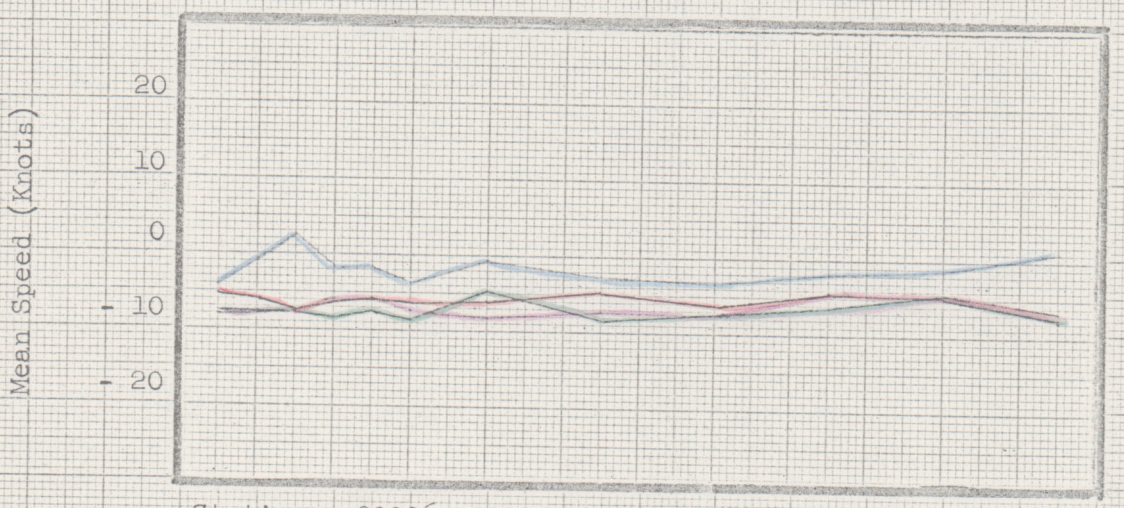
Stations 00006, 00021, 00031, 00036 Time Period 1 Lag 00

Group "B"

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.11
Mean direction and mean speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 2 from 0400-0600 C.S.T.



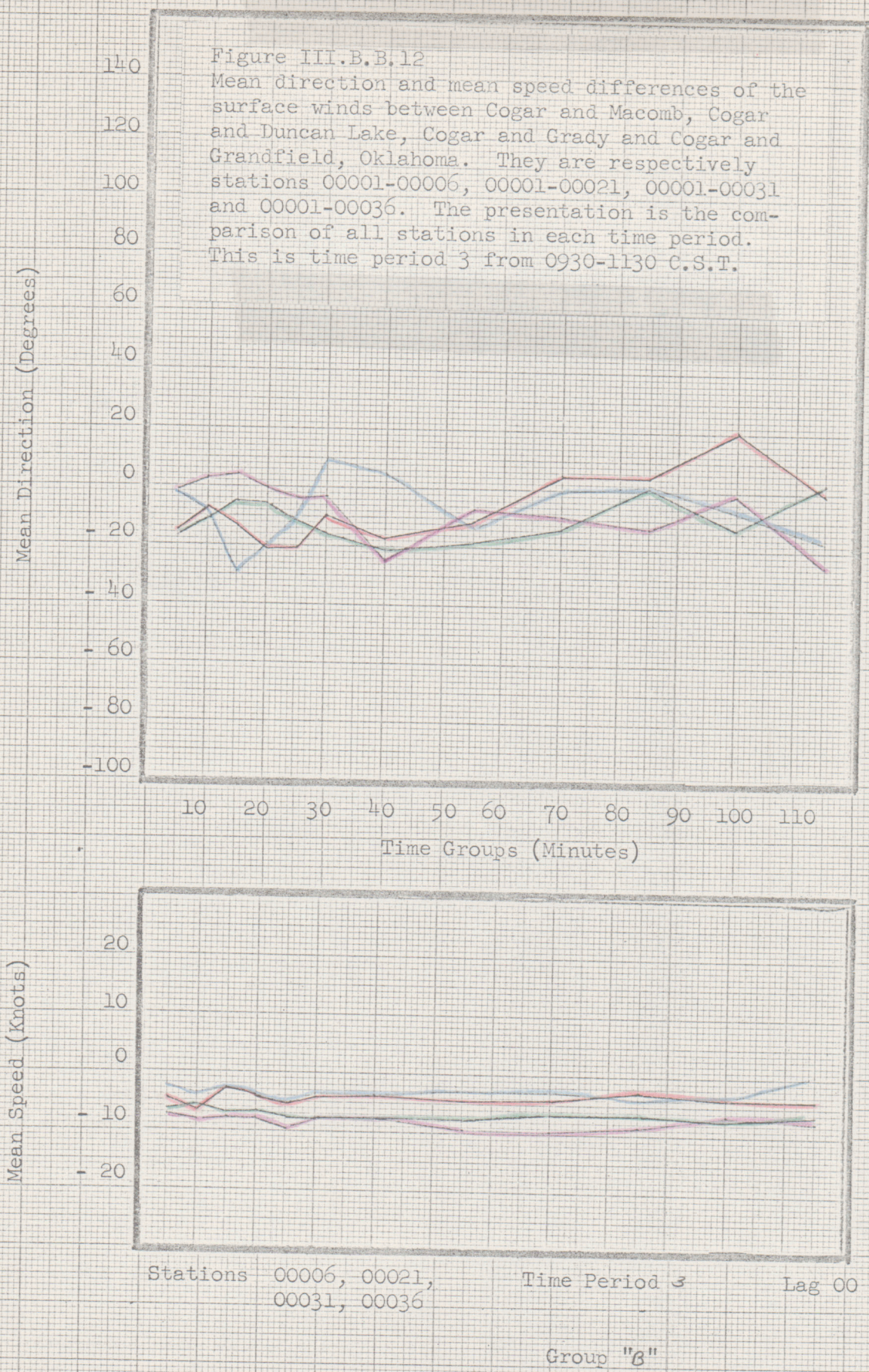


Stations 00006, 00021, 00031, 00036 Time Period 2 Lag 00

Group "B"

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.12
Mean direction and mean speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 3 from 0930-1130 C.S.T.

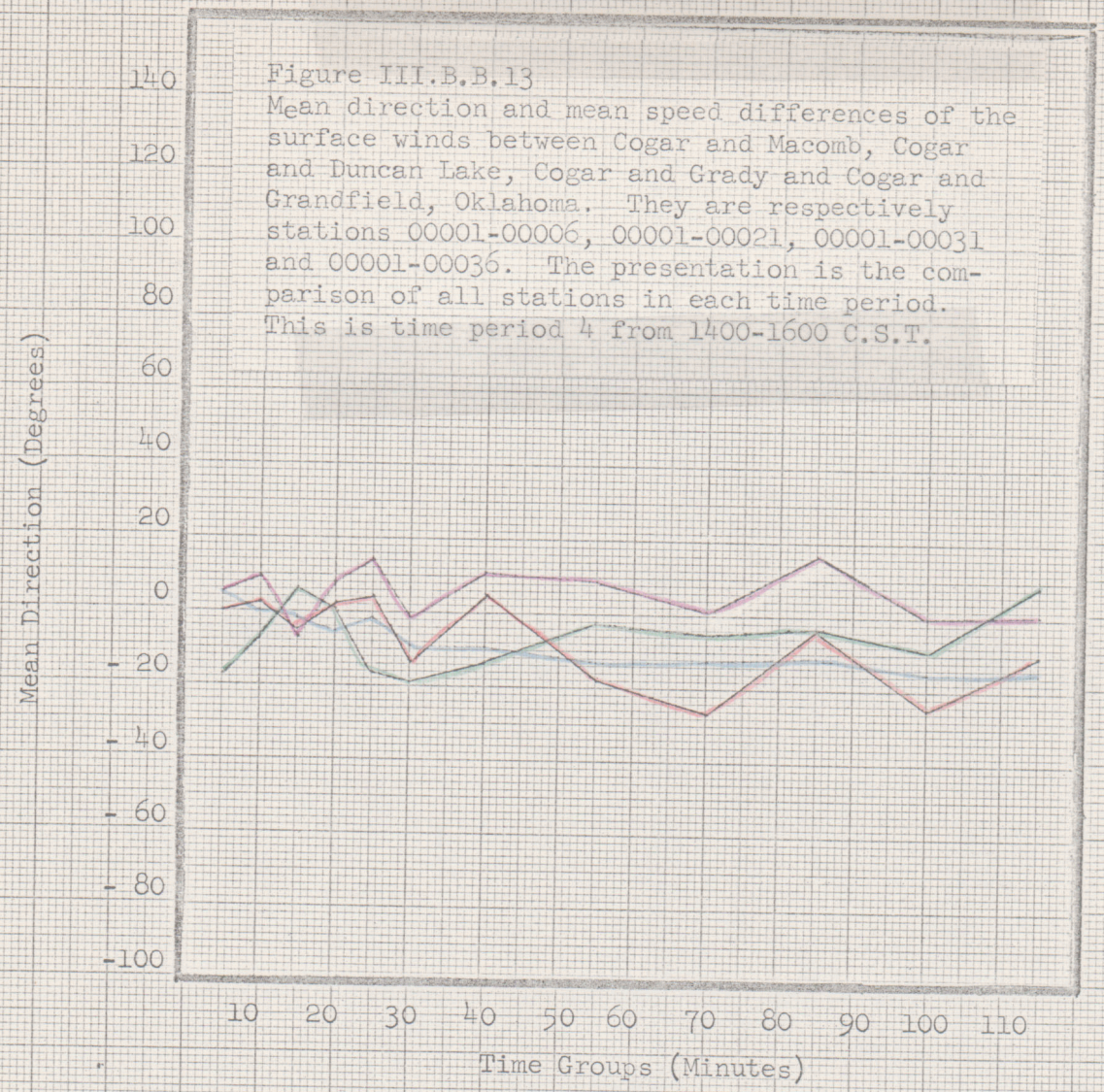


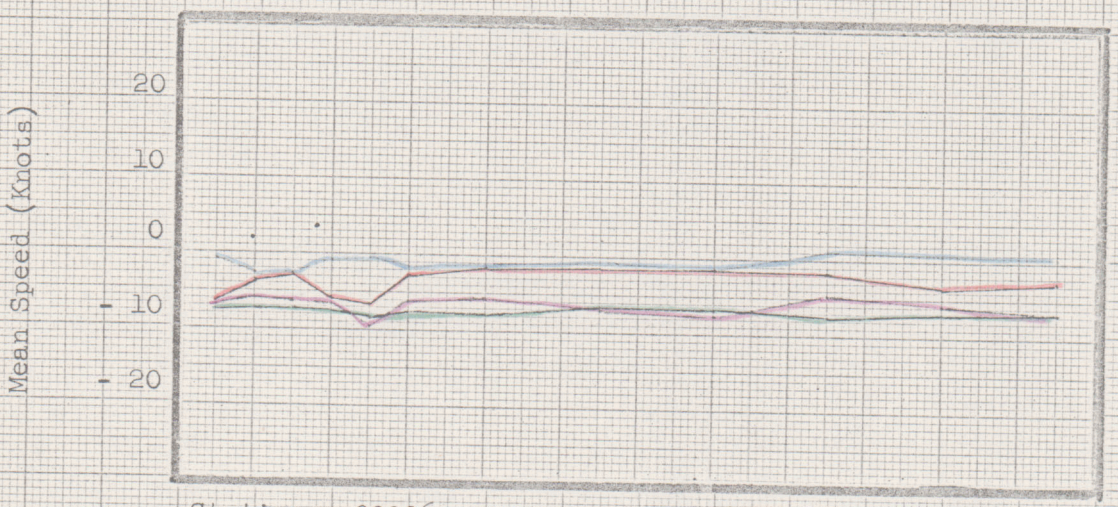
Stations 00006, 00021, 00031, 00036 Time Period 3 Lag 00

Group "B"

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.13
Mean direction and mean speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 4 from 1400-1600 C.S.T.



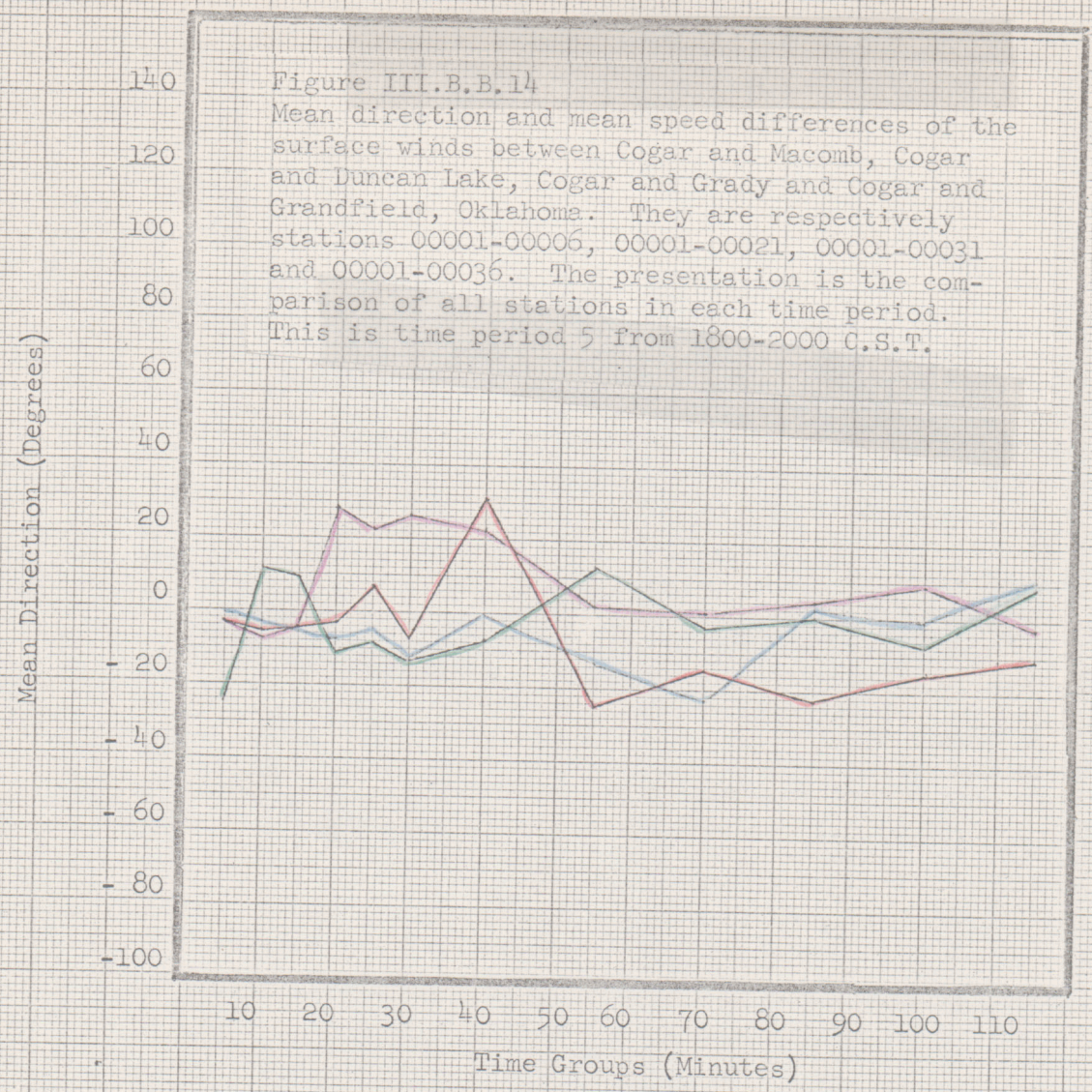


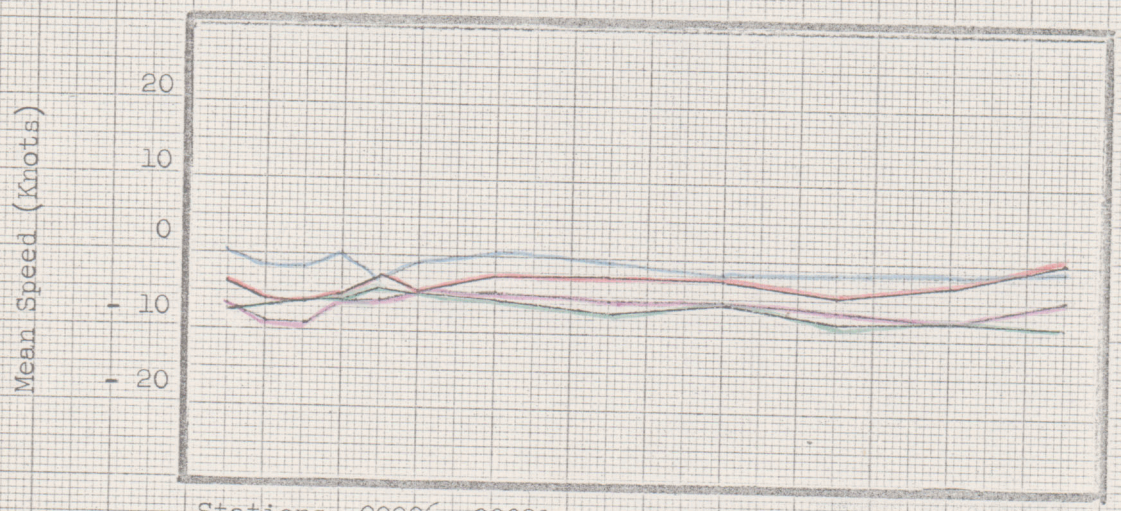
Stations 00006, 00021, 00031, 00036 Time Period 4 Lag 00

Group "6"

K&E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.B.14
Mean direction and mean speed differences of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma. They are respectively stations 00001-00006, 00001-00021, 00001-00031 and 00001-00036. The presentation is the comparison of all stations in each time period. This is time period 5 from 1800-2000 C.S.T.



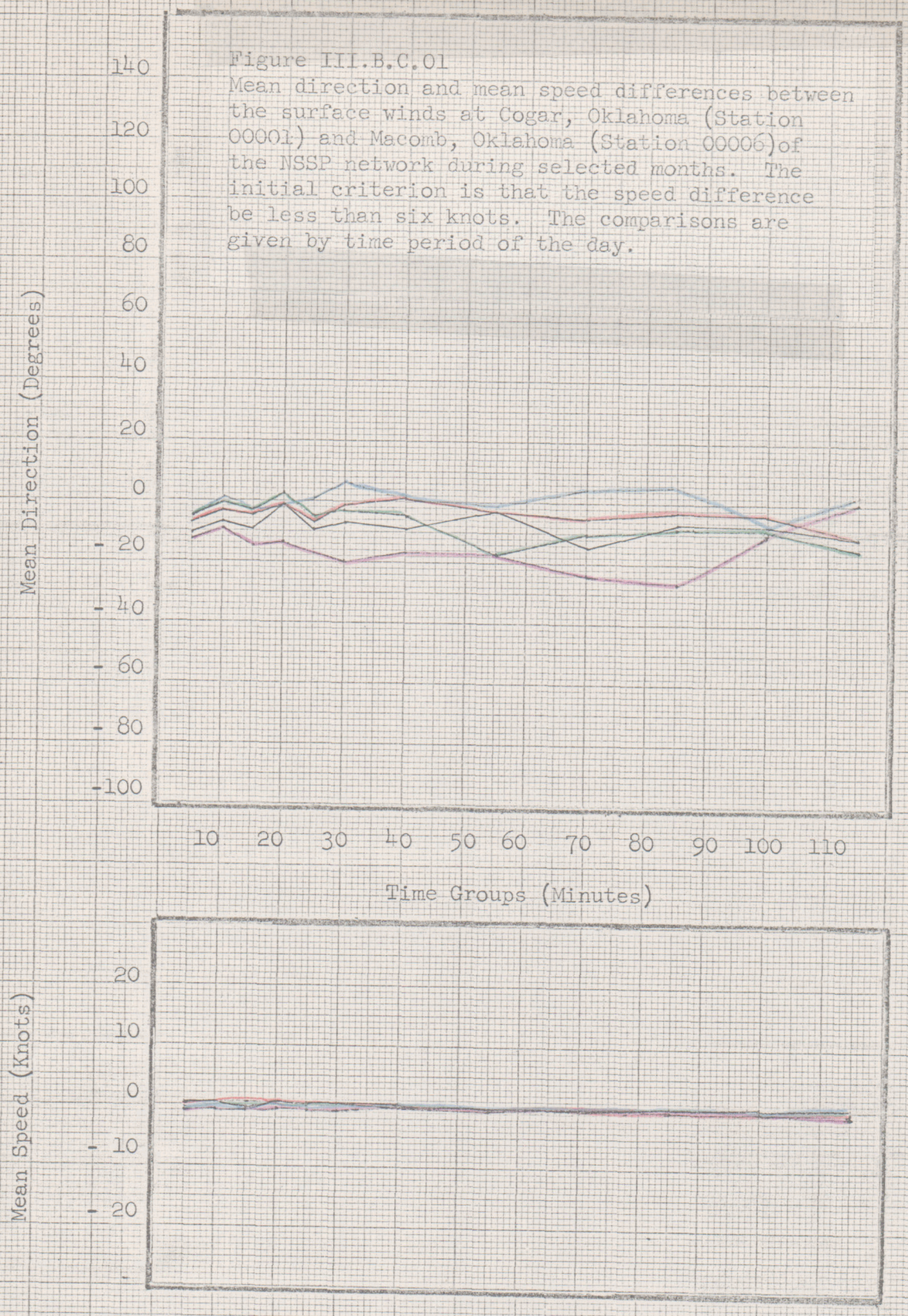


Stations 00006, 00021, 00031, 00036 Time Period 5 Lag 00

Group "B"

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.C.01
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Macomb, Oklahoma (Station 00006) of the NSSP network during selected months. The initial criterion is that the speed difference be less than six knots. The comparisons are given by time period of the day.

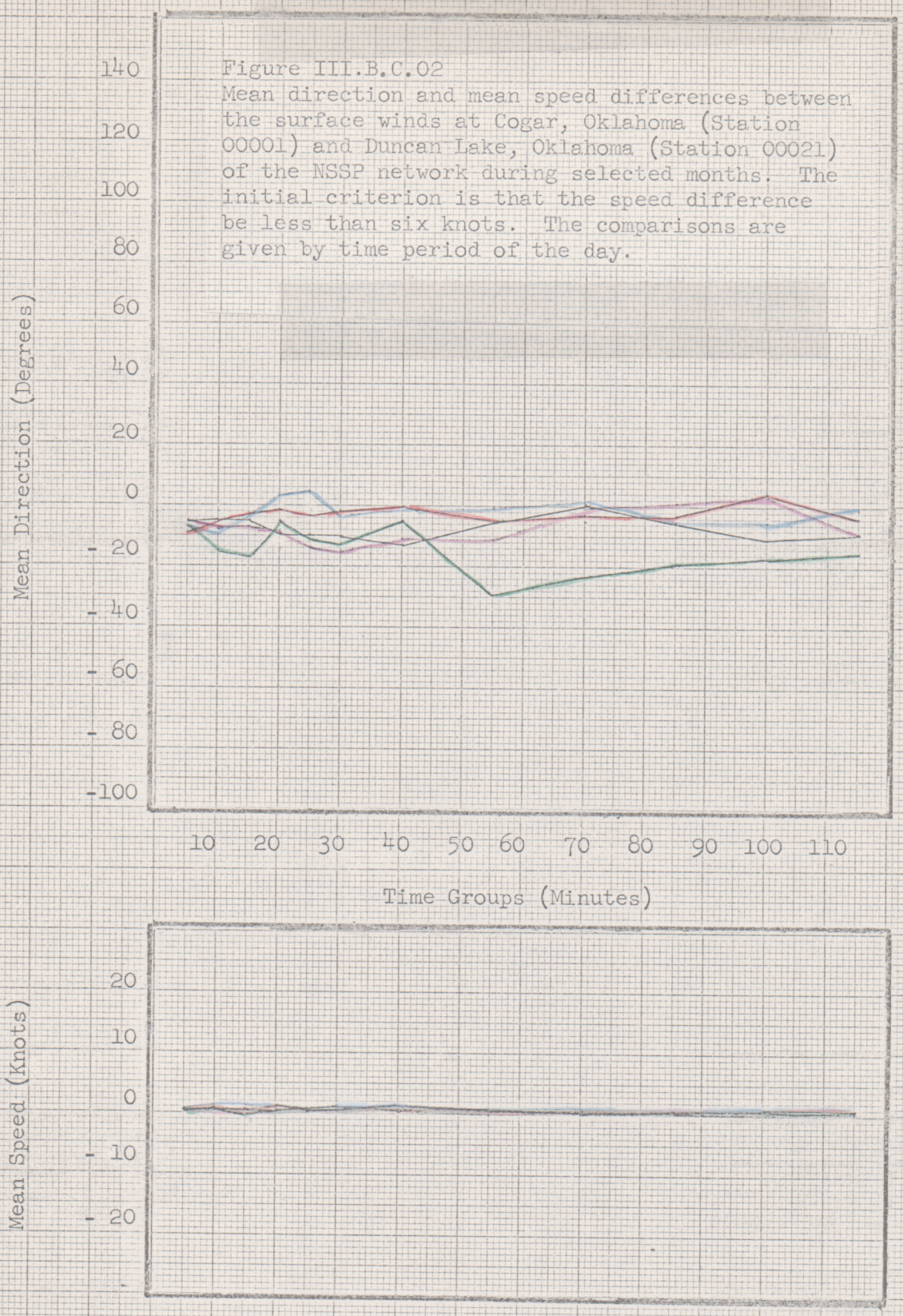


Station 00006 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP "C"

10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.C.02
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Duncan Lake, Oklahoma (Station 00021) of the NSSP network during selected months. The initial criterion is that the speed difference be less than six knots. The comparisons are given by time period of the day.

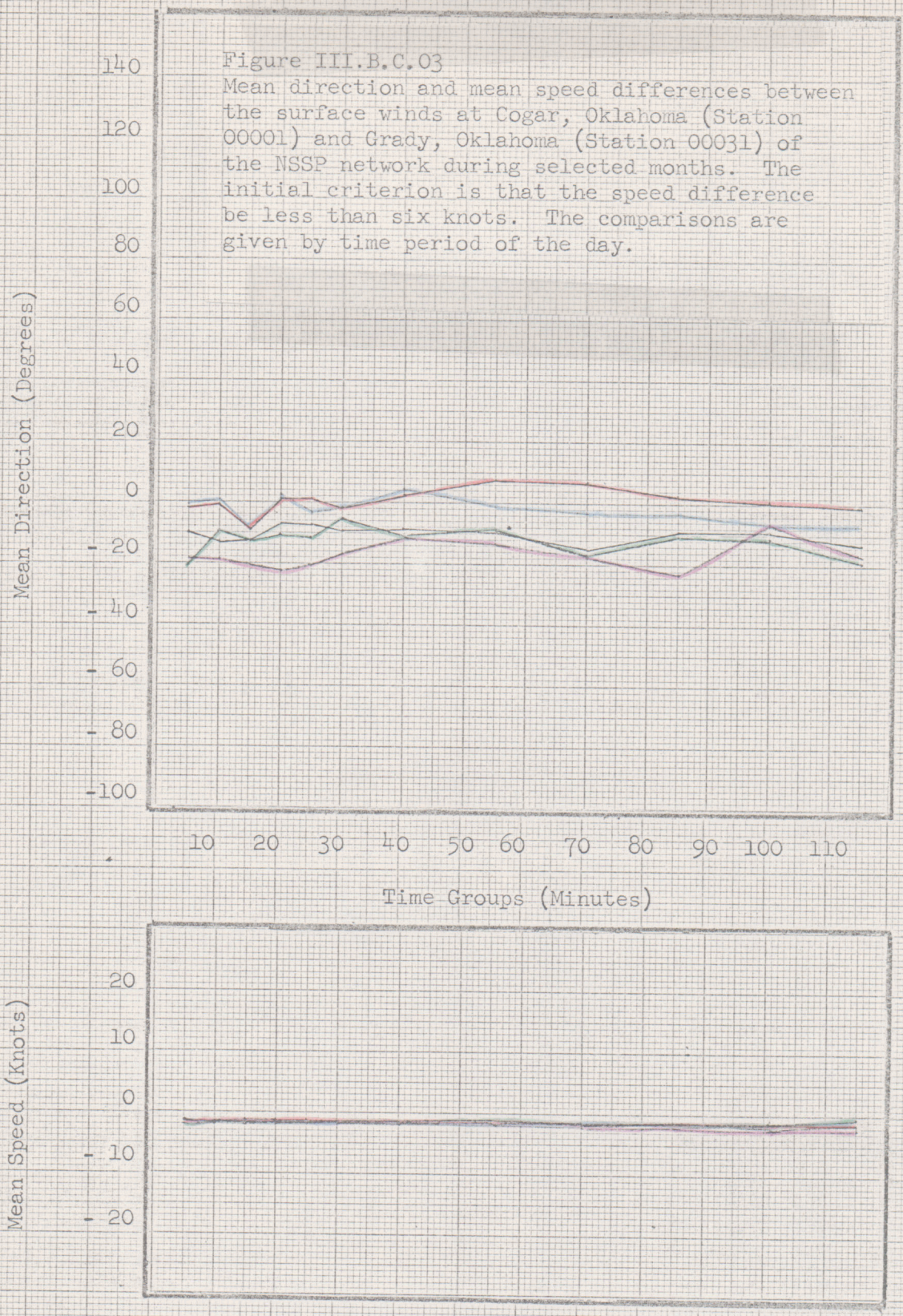


Station 00021 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP C

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.C.03
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Grady, Oklahoma (Station 00031) of the NSSP network during selected months. The initial criterion is that the speed difference be less than six knots. The comparisons are given by time period of the day.



Station 00031 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP C

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

Figure III.B.C.04
Mean direction and mean speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Grandfield, Oklahoma (Station 00036 of the NSSP network during selected months. The initial criterion is that the speed difference be less than six knots. The comparisons are given by time period of the day.

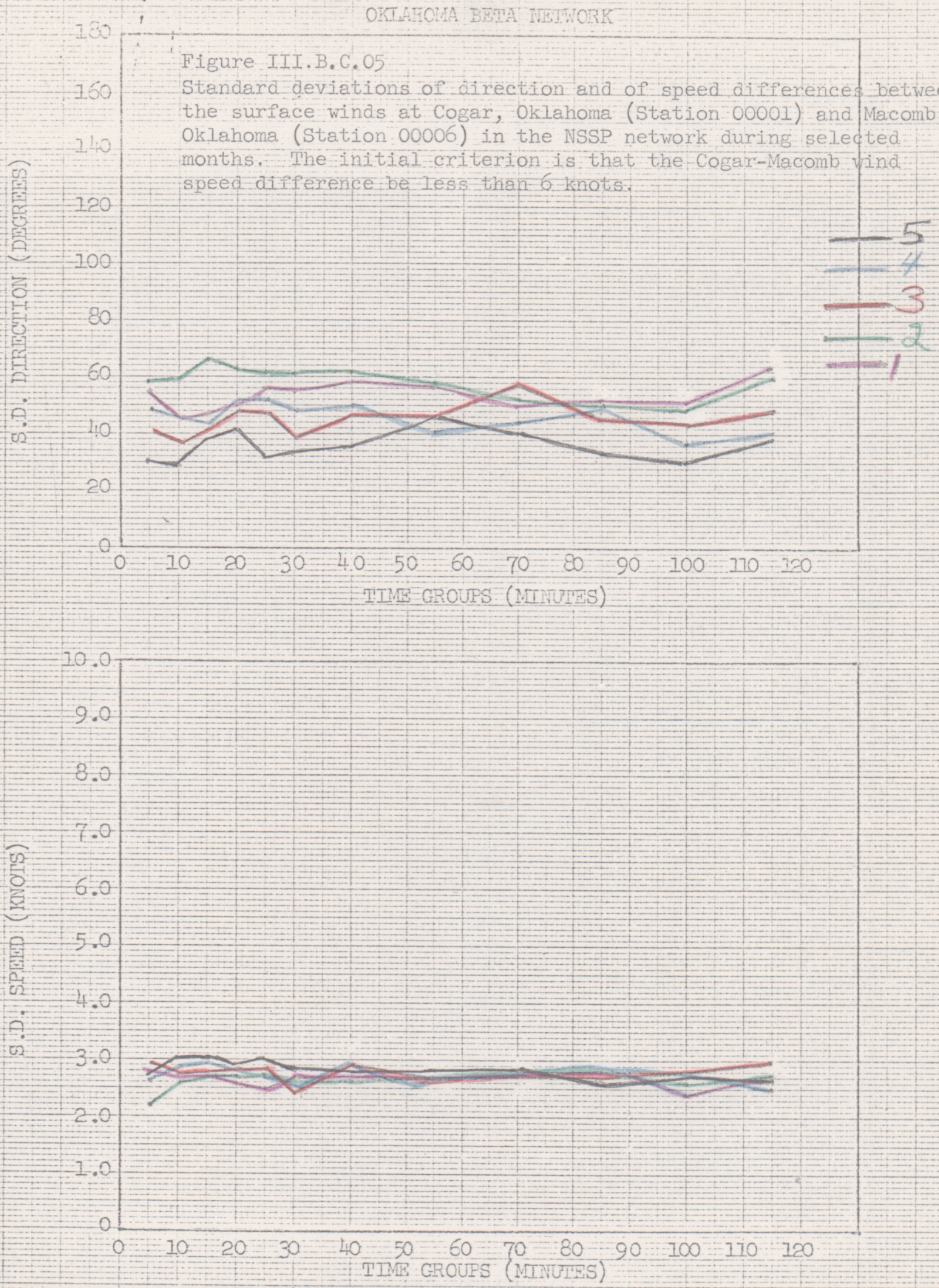
Station 00036 Time Periods 1, 2, 3, 4, 5 Lag 00

GROUP C

K+E 10 X 10 TO THE CENTIMETER 46 1510
18 X 25 CM. MADE IN U.S.A.
KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.C.05
Standard deviations of direction and of speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Macomb, Oklahoma (Station 00006) in the NSSP network during selected months. The initial criterion is that the Cogar-Macomb wind speed difference be less than 6 knots.

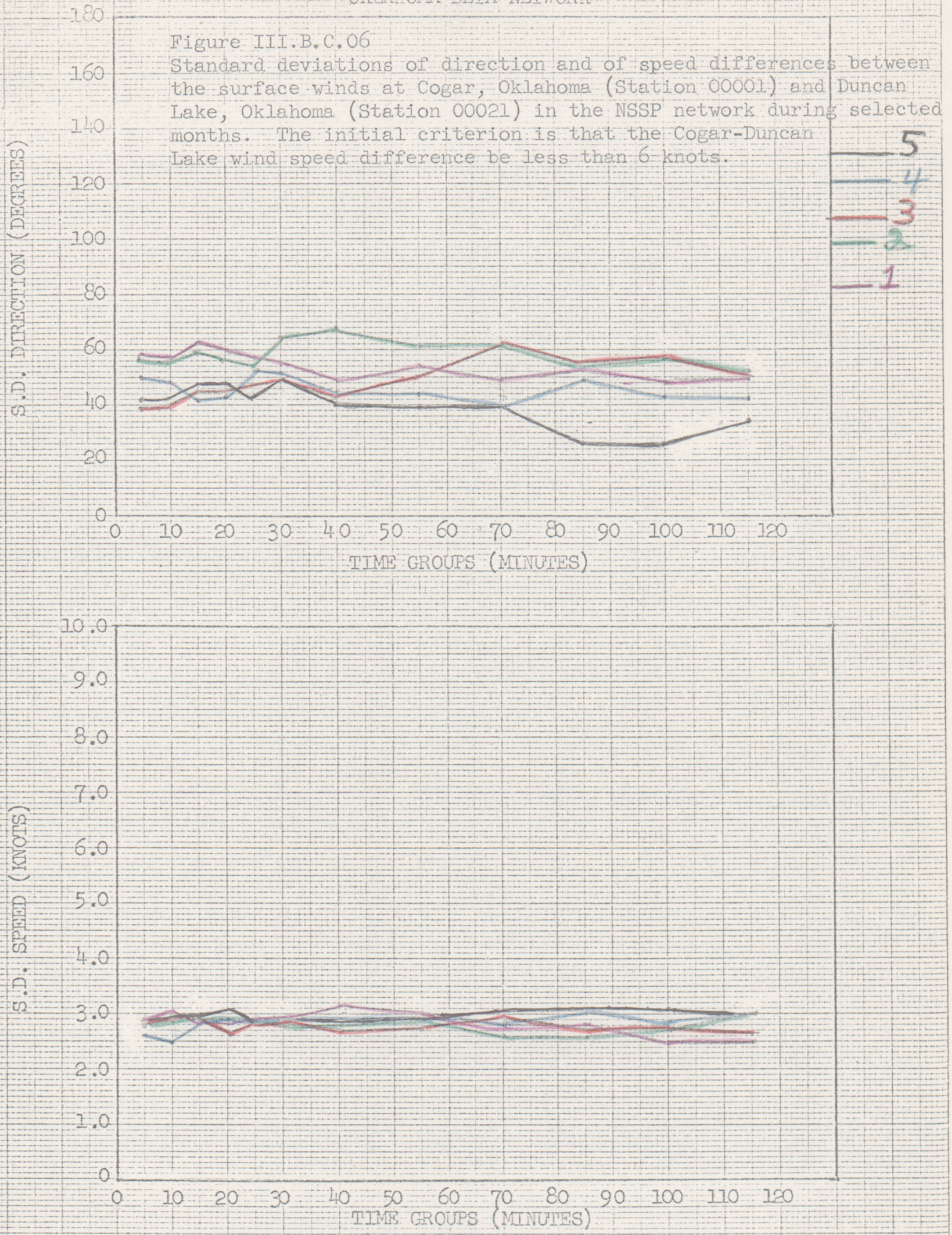


STATION 00006 TIME PERIODS 1, 2, 3, 4, 5 LAG 00

C Group

OKLAHOMA BETA NETWORK

Figure III.B.C.06
Standard deviations of direction and of speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Duncan Lake, Oklahoma (Station 00021) in the NSSP network during selected months. The initial criterion is that the Cogar-Duncan Lake wind speed difference be less than 6 knots.



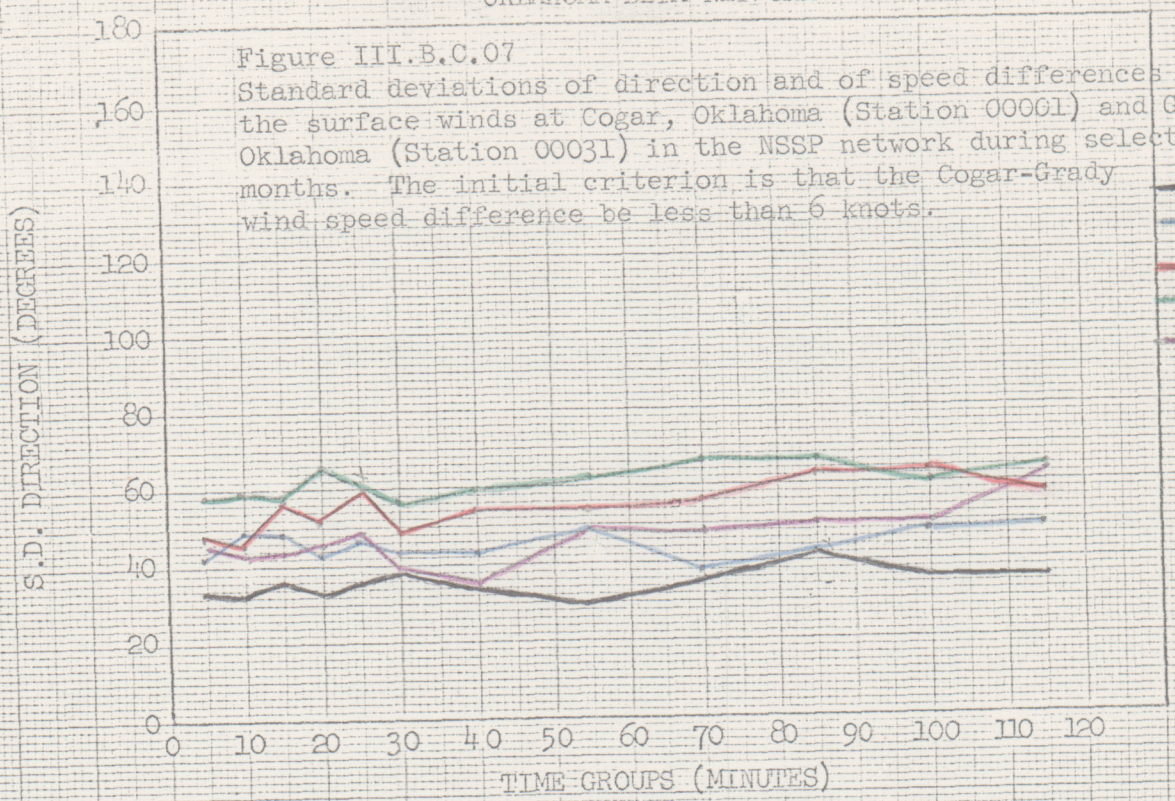
STATION 00021 TIME PERIOD 1, 2, 3, 4, 5 LAG 00

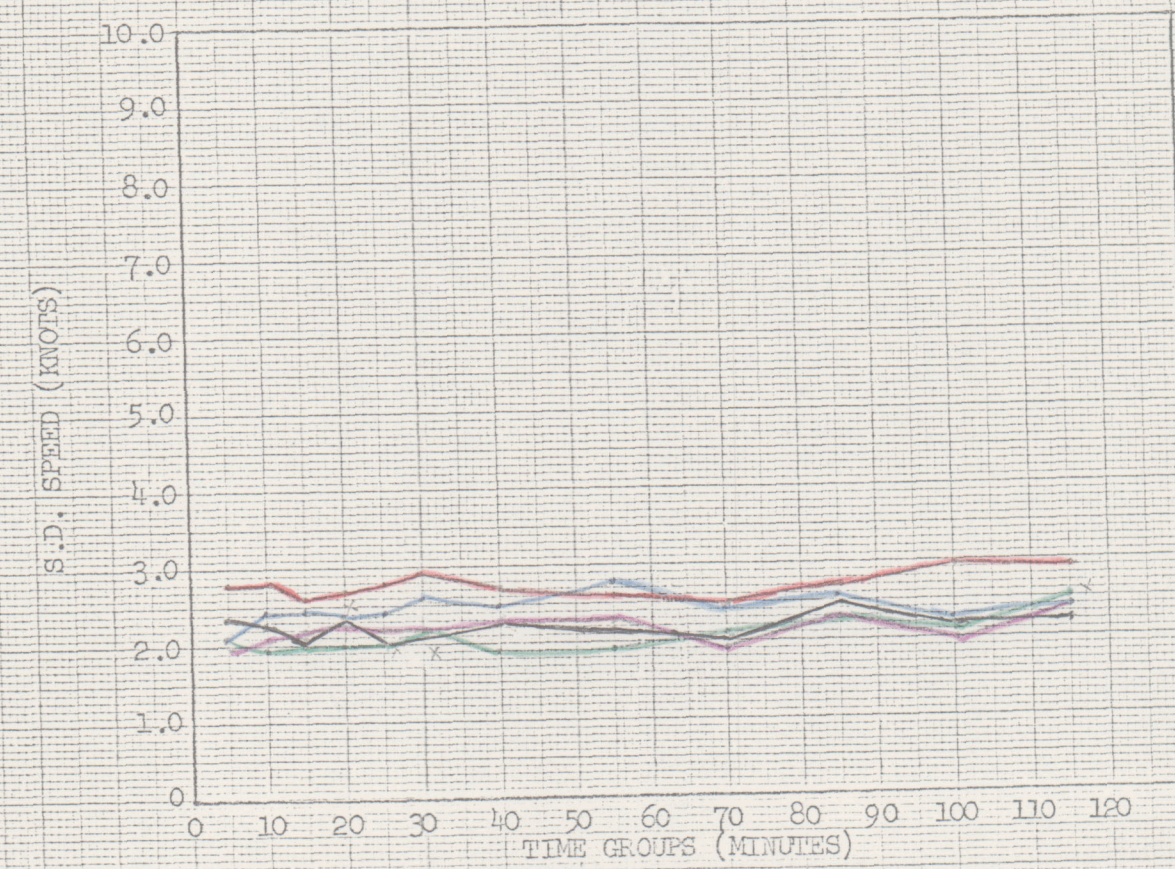
C group

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.C.07
Standard deviations of direction and of speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Grady, Oklahoma (Station 00031) in the NSSP network during selected months. The initial criterion is that the Cogar-Grady wind speed difference be less than 6 knots.





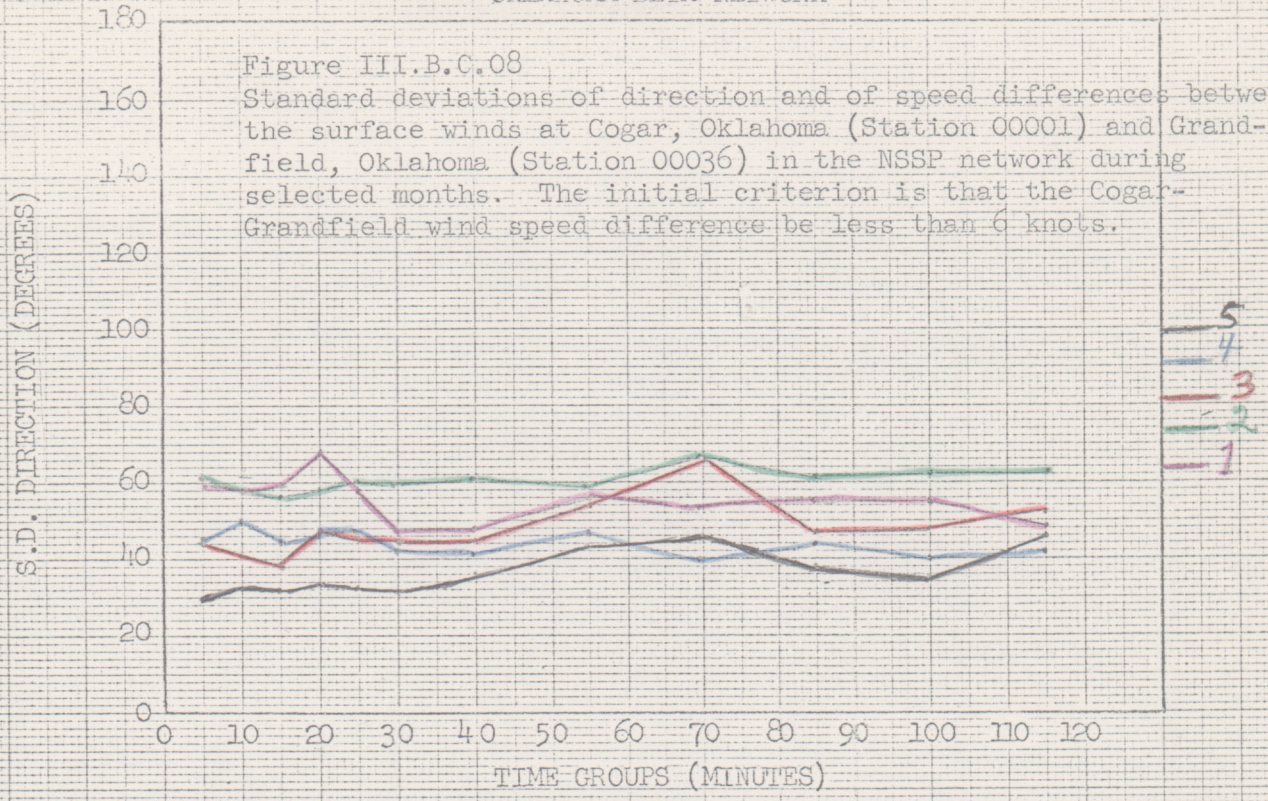
STATION 00031 TIME PERIOD 1, 2, 3, 4, 5 LAG 00

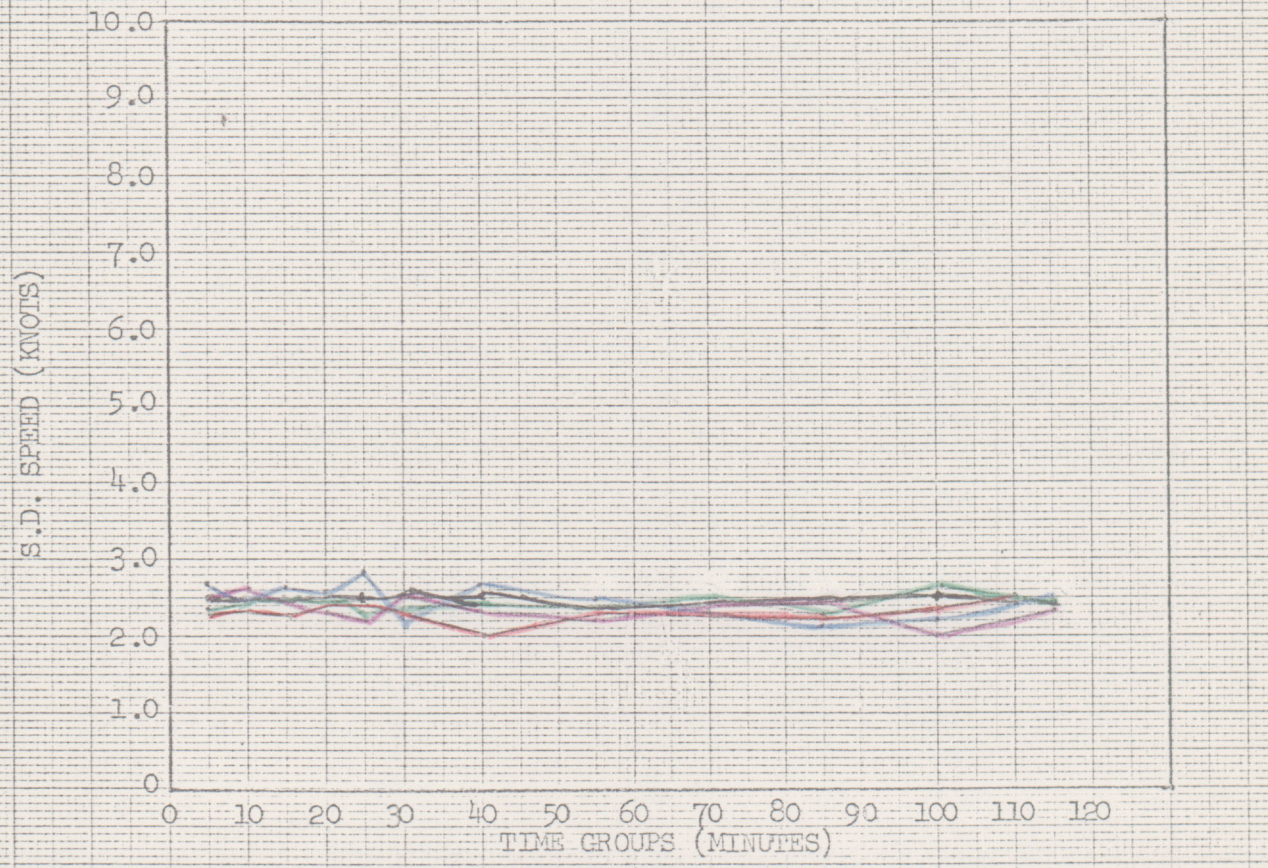
Cgroup

KEUFFEL & ESSER CO.

OKLAHOMA BETA NETWORK

Figure III.B.C.08
Standard deviations of direction and of speed differences between the surface winds at Cogar, Oklahoma (Station 00001) and Grandfield, Oklahoma (Station 00036) in the NSSP network during selected months. The initial criterion is that the Cogar-Grandfield wind speed difference be less than 6 knots.

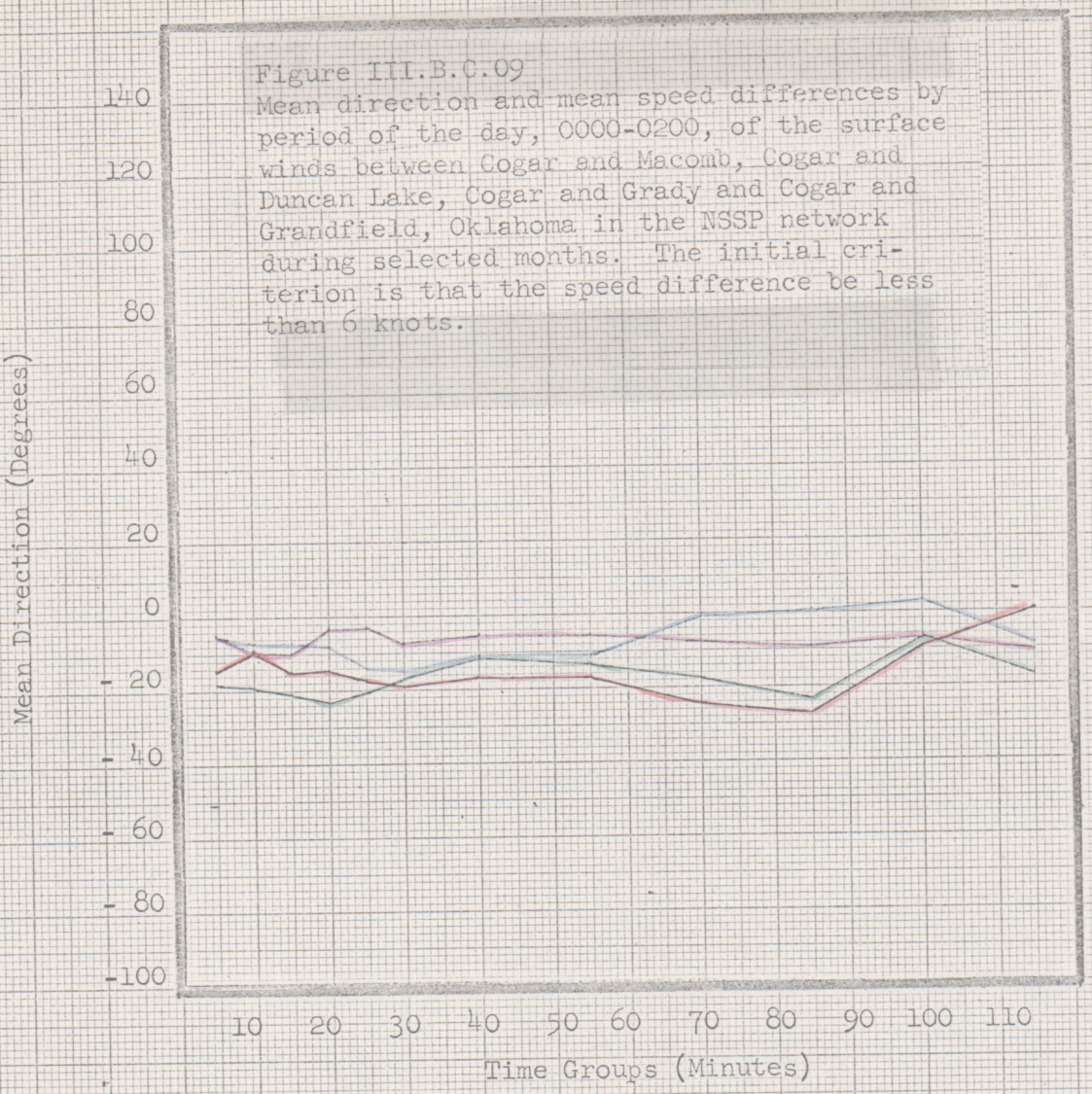


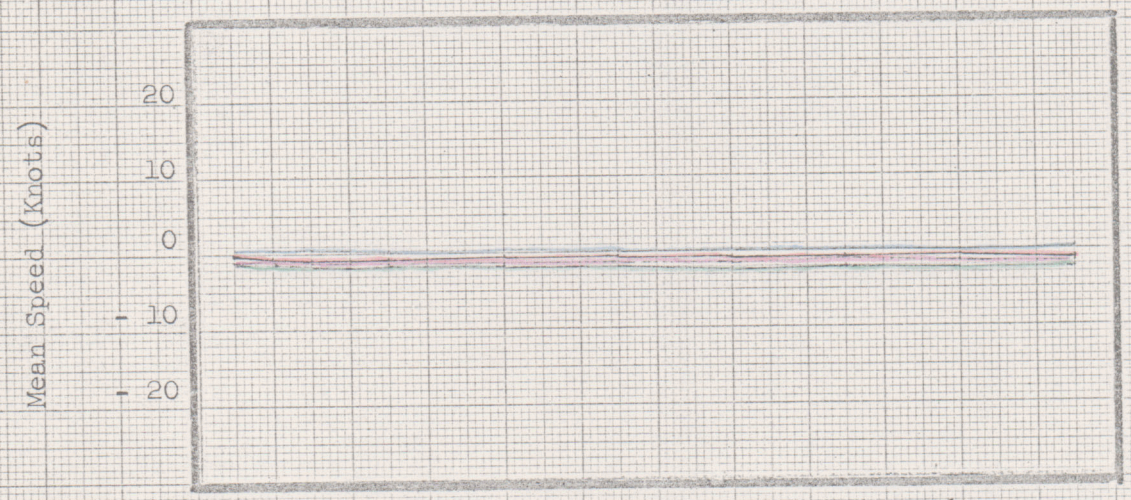


STATION 00036 TIME PERIOD 1, 2, 3, 4, 5 LAG 00

C group

Figure III.B.C.09
Mean direction and mean speed differences by period of the day, 0000-0200, of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma in the NSSP network during selected months. The initial criterion is that the speed difference be less than 6 knots.

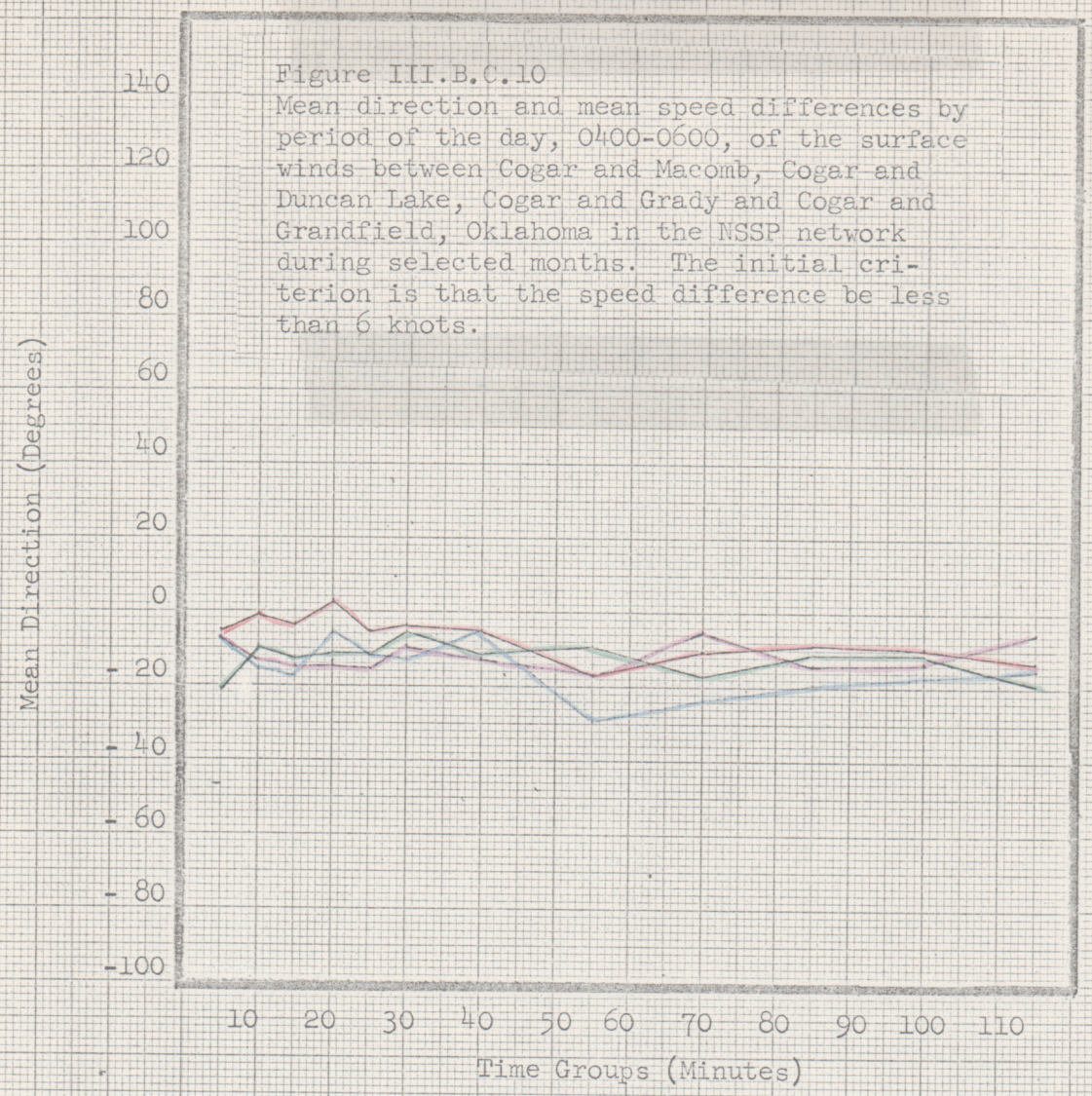


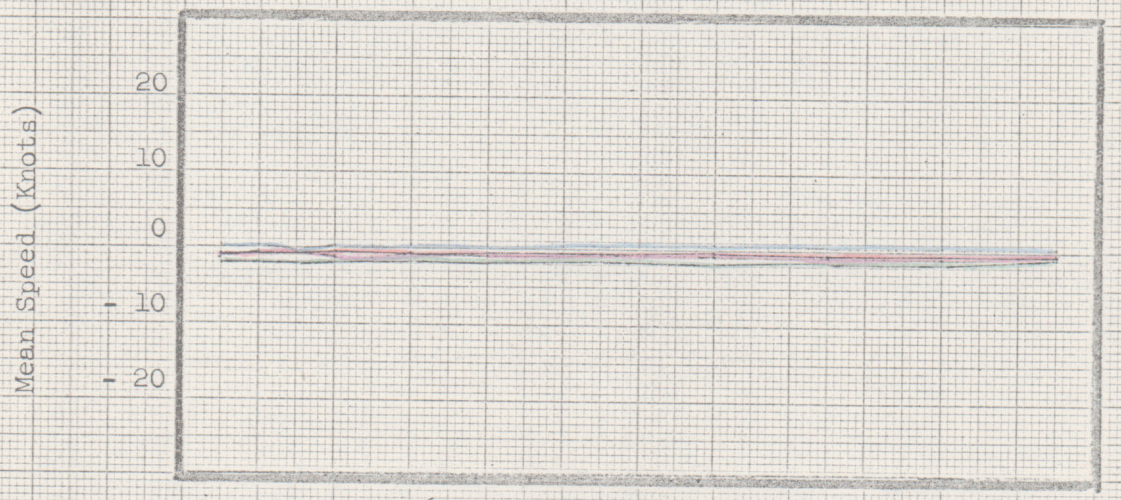


Stations 00006, 00021, 00031, 00036 Time Period 1 Lag 00

Group "c"

Figure III.B.C.10
Mean direction and mean speed differences by period of the day, 0400-0600, of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma in the NSSP network during selected months. The initial criterion is that the speed difference be less than 6 knots.





Stations 00006, 00021, 00031, 00036 Time Period 2 Lag 00

Group "C"

K+E 10 X 10 TO THE CENTIMETER 46 1510
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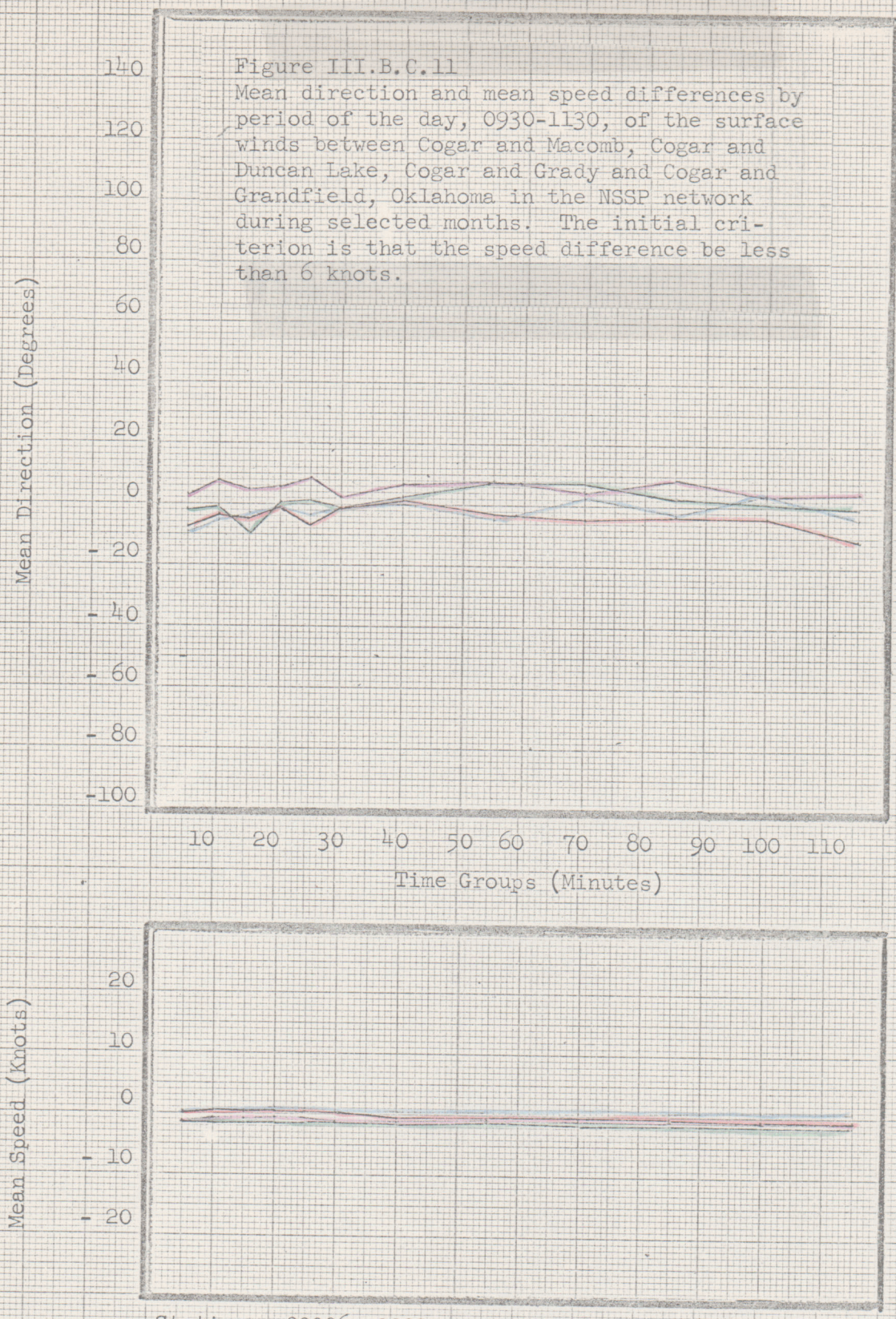
Figure III.B.C.11
Mean direction and mean speed differences by period of the day, 0930-1130, of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma in the NSSP network during selected months. The initial criterion is that the speed difference be less than 6 knots.



Stations 00006, 00021, 00031, 00036 Time Period 3 Lag 00

Group "C"

K&E 10 X 10 TO THE CENTIMETER 46 1510
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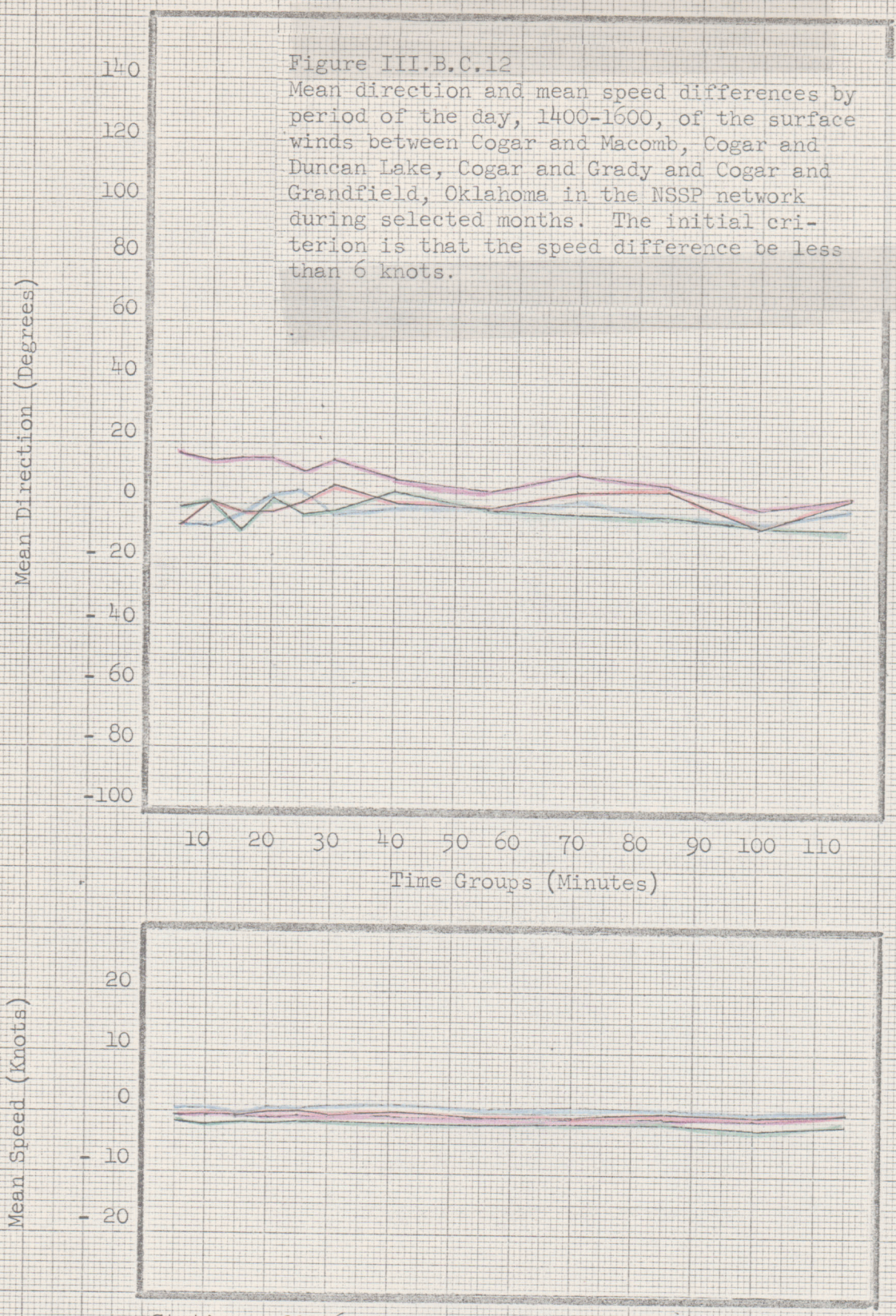
Figure III.B.C.12
Mean direction and mean speed differences by period of the day, 1400-1600, of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma in the NSSP network during selected months. The initial criterion is that the speed difference be less than 6 knots.



Stations 00006, 00021, 00031, 00036 Time Period 4 Lag 00

Group "c"

K+E 10 X 10 TO THE CENTIMETER 46 1510
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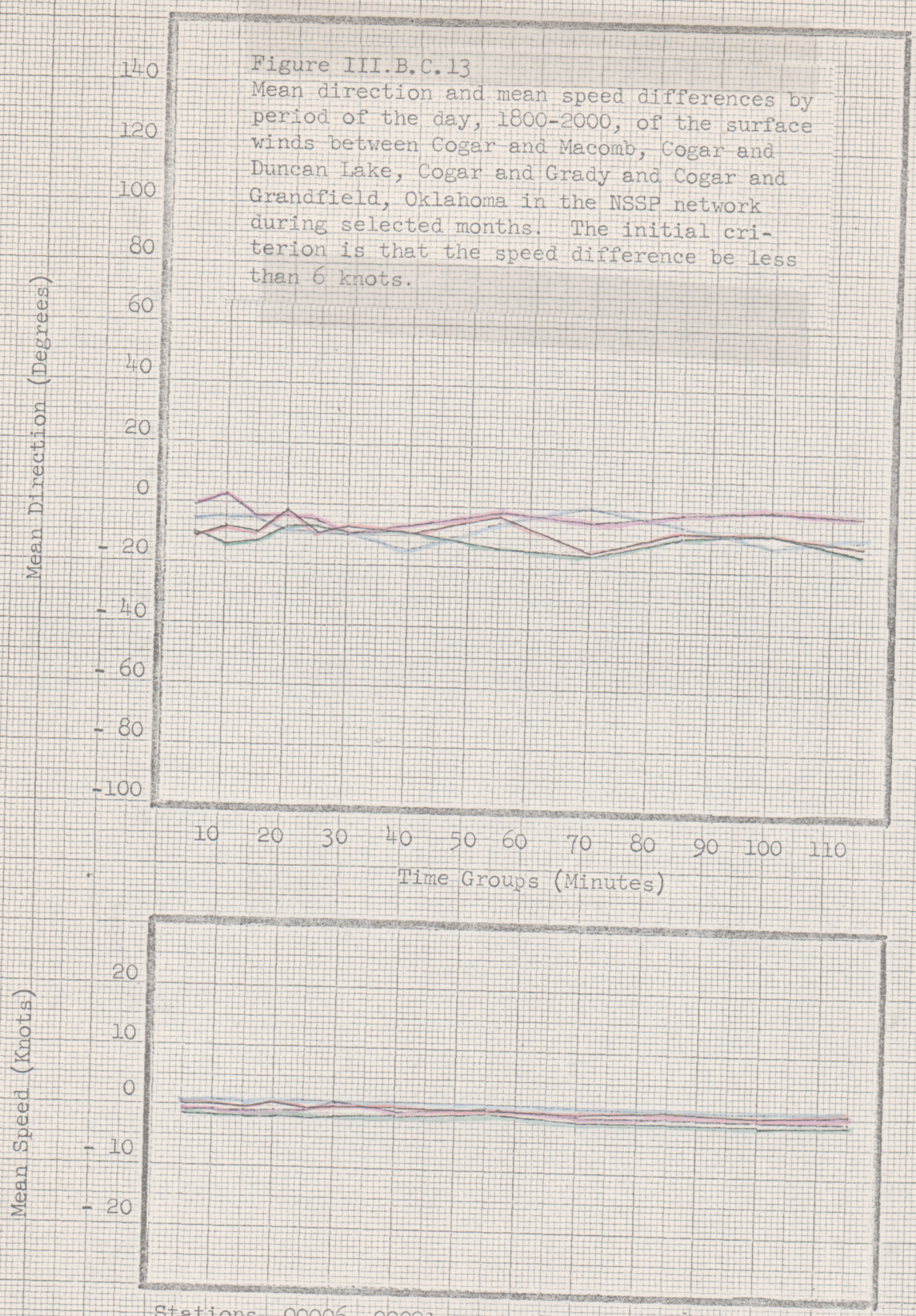
Figure III.B.C.13
Mean direction and mean speed differences by period of the day, 1800-2000, of the surface winds between Cogar and Macomb, Cogar and Duncan Lake, Cogar and Grady and Cogar and Grandfield, Oklahoma in the NSSP network during selected months. The initial criterion is that the speed difference be less than 6 knots.



Stations 00006, 00021, 00031, 00036

Time Period 5

Lag 00

Group "C"

K+E 10 X 10 TO THE CENTIMETER 46 1510
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