**International HF Broadcasting Conference**
**(Mexico, 1948-1949)**

A set of charts showing curves of Optimum Working Frequency (OWF) was prepared by the United States and provided to the International HF Broadcasting Conference (Mexico, 1948-1949) to facilitate its work.

The pages in this file are a small sample of what is included in these documents. The complete set is available for consultation at the ITU Library & Archives in Geneva, Switzerland, and includes the following charts:

- June [no Sunspot Number specified]
- June, Sunspot Number 40
- June, Sunspot Number 40 & 12 - Supplement
- Equinox [no Sunspot Number specified]
- Equinox, Sunspot Number 40
- Equinox, Sunspot Number 40 & 12 – Supplement
- December [no Sunspot Number specified]
- December, Sunspot Number 40
- December, Sunspot Number 125.70 & 5 - Supplement

Please contact library@itu.int for more information.

C.I.R.A.F.

Mexico City, 1948/49

UNITED STATES DELEGATION

## APPROXIMATE CONVERSION FACTORS FOR VARIOUS DISTANCES

The OWF curves included in these books may be converted for use at distances between 0 and 4000 km other than those marked on the sheets, by a series of conversion factors.

Curves marked with distances between 0 km (vertical incidence) and 1500 km may be converted for use at other distances between 0 km and 1500 km by application of the following factors:

| Distance in km | Percent of 0 km Frequency |
|---|---|
| 750 | 117 |
| 1000 | 130 |
| 1250 | 150 |
| 1500 | 180 |

Curves marked with distances between 1500 km and 4000 km may be converted for use at other distances between 1500 km and 4000 km by application of the following factors:

| Distance in km | Percent of 4000 km Frequency |
|---|---|
| 1500 | 60 |
| 2000 | 72 |
| 2500 | 83 |
| 3000 | 92 |
| 3500 | 99 |
| 4000 | 100 |

Conversion factors cannot be applied for path lengths greater than 4000 km.

ORIGINAL

# OPTIMUM TRANSMITTING FREQUENCIES

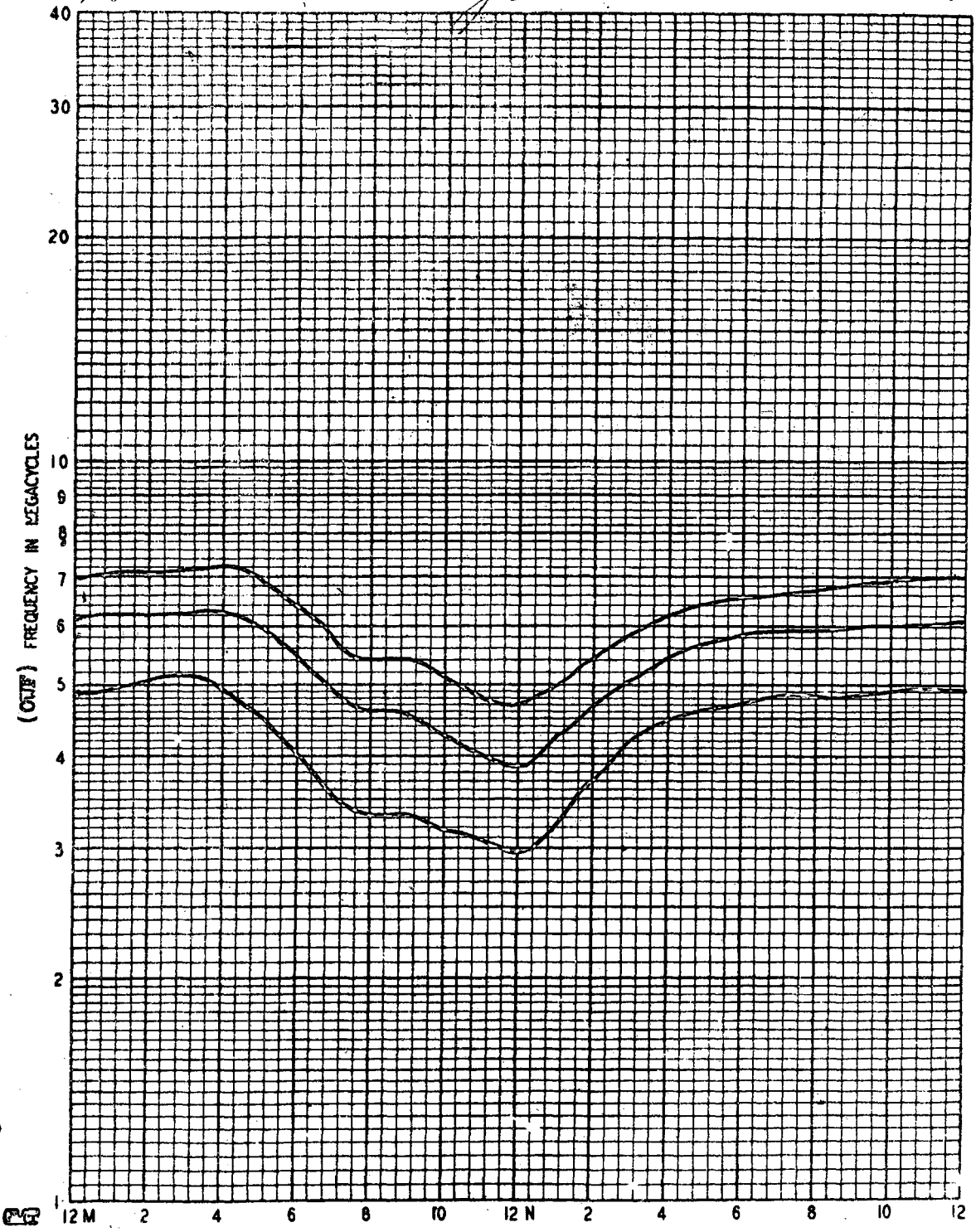
Transmitter: Area 2 Receivor: Area 2

Lat. ____ Long. ____ Lat. ____ Long. ____

Control Pt. Lat. 50 N Long. ____ Control Pt. Lat. ____ Long. ____

Zone W Sunspot Number ____ Zone ____

for June Vert. Inc

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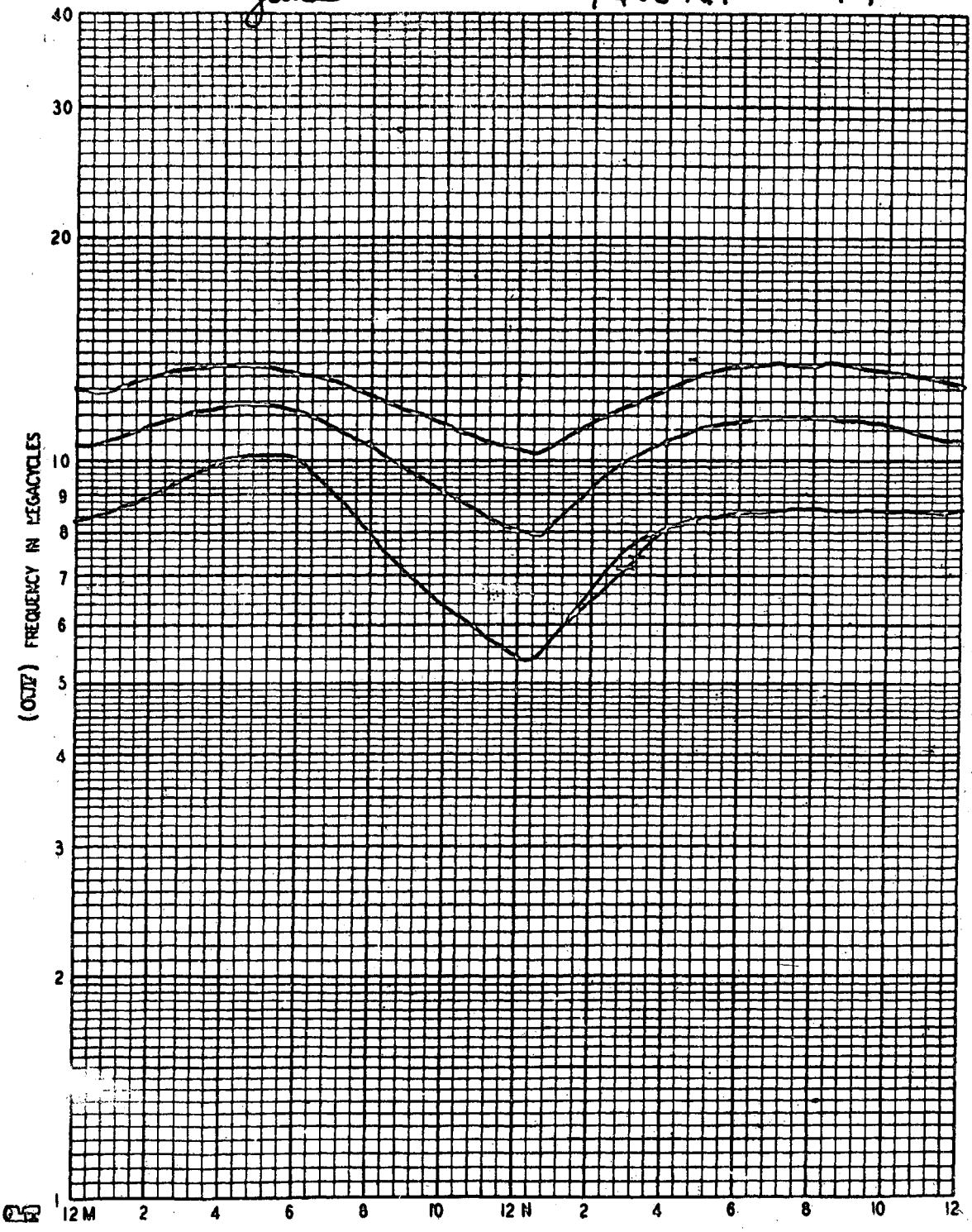
# OPTIMUM TRANSMITTING FREQUENCIES

Transmitter: Vancouver (AREA 2) Receiver: Area 2

Control Pt. Lat. ____ Long. 135°W — Control Pt. Lat. ____ Long. ____

Zone 20 I Sunspot Number ____ — Zone ____

June 1400 KM +9

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OPTIMUM TRANSMITTING FREQUENCIES

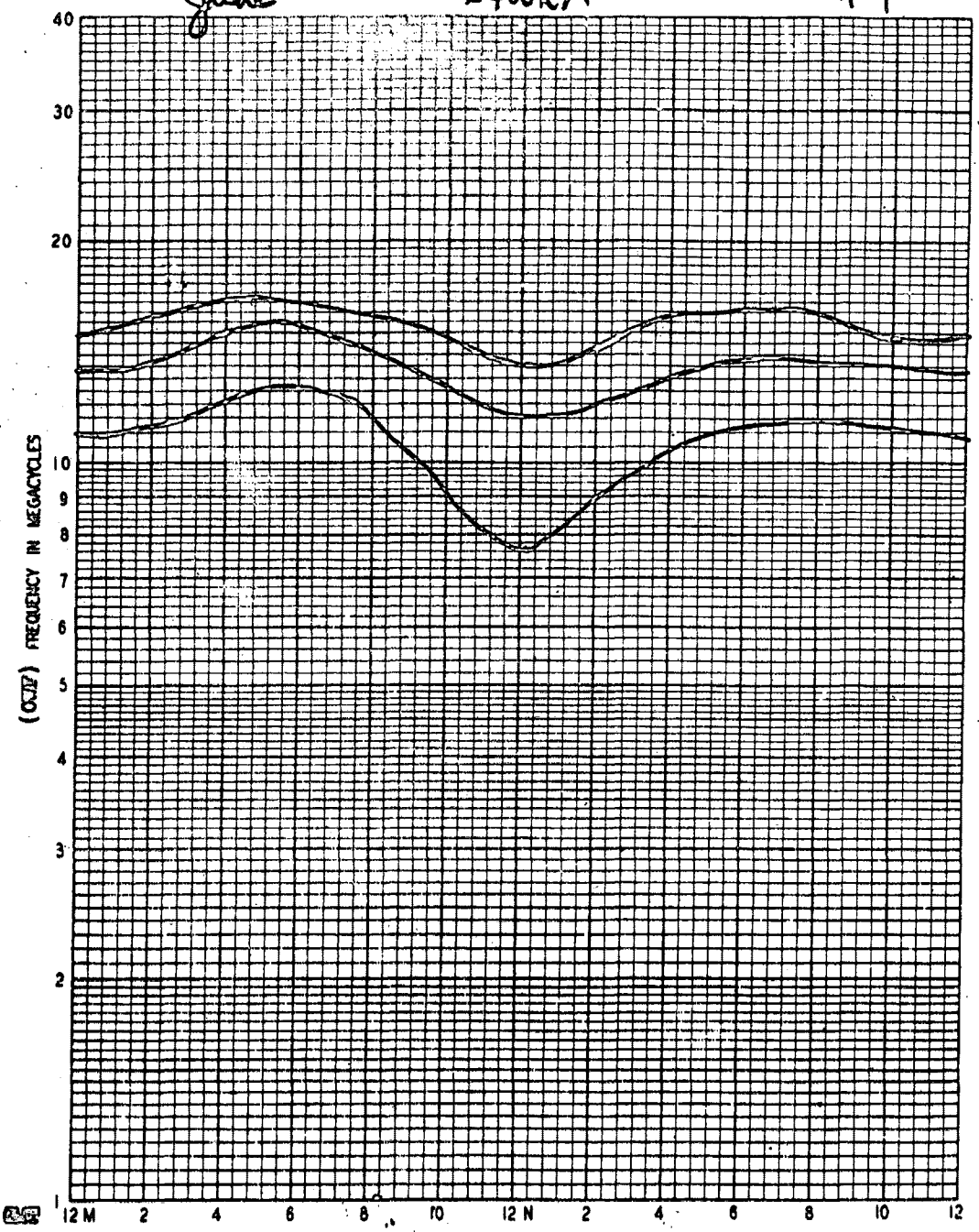
*Transmitter: Vancouver (AREA 2) Receiver: White Horse, Yukon (AREA 2)

Lat. _____ Long. 135 W — Lat. _____ Long. _____

Control Pt. Lat. 55N Long. _____ Control Pt. Lat. _____ Long. _____

Zone 8 1 Sunspot Number _____ Zone _____

June 2400KM +9

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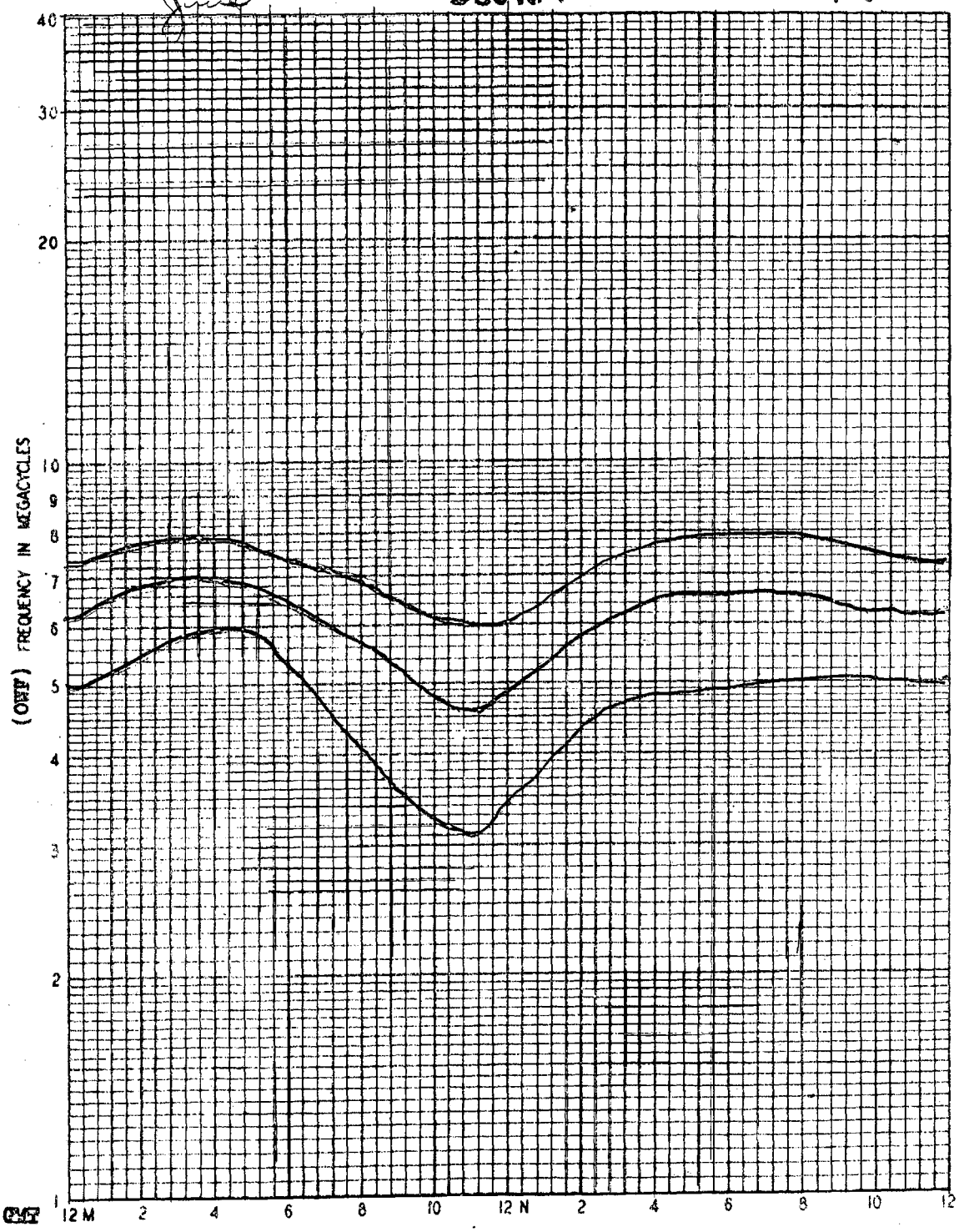
OPTIMUM TRANSMITTING FREQUENCIES

Transmitter: Vancouver (AREA 2) Receiver: Area 2

Control Pt. Lat. 50N Long. 125 0 Zone 8 I Sunspot Number _____

Control Pt. Lat. _____ Long. _____ Zone _____

June 250KM +8

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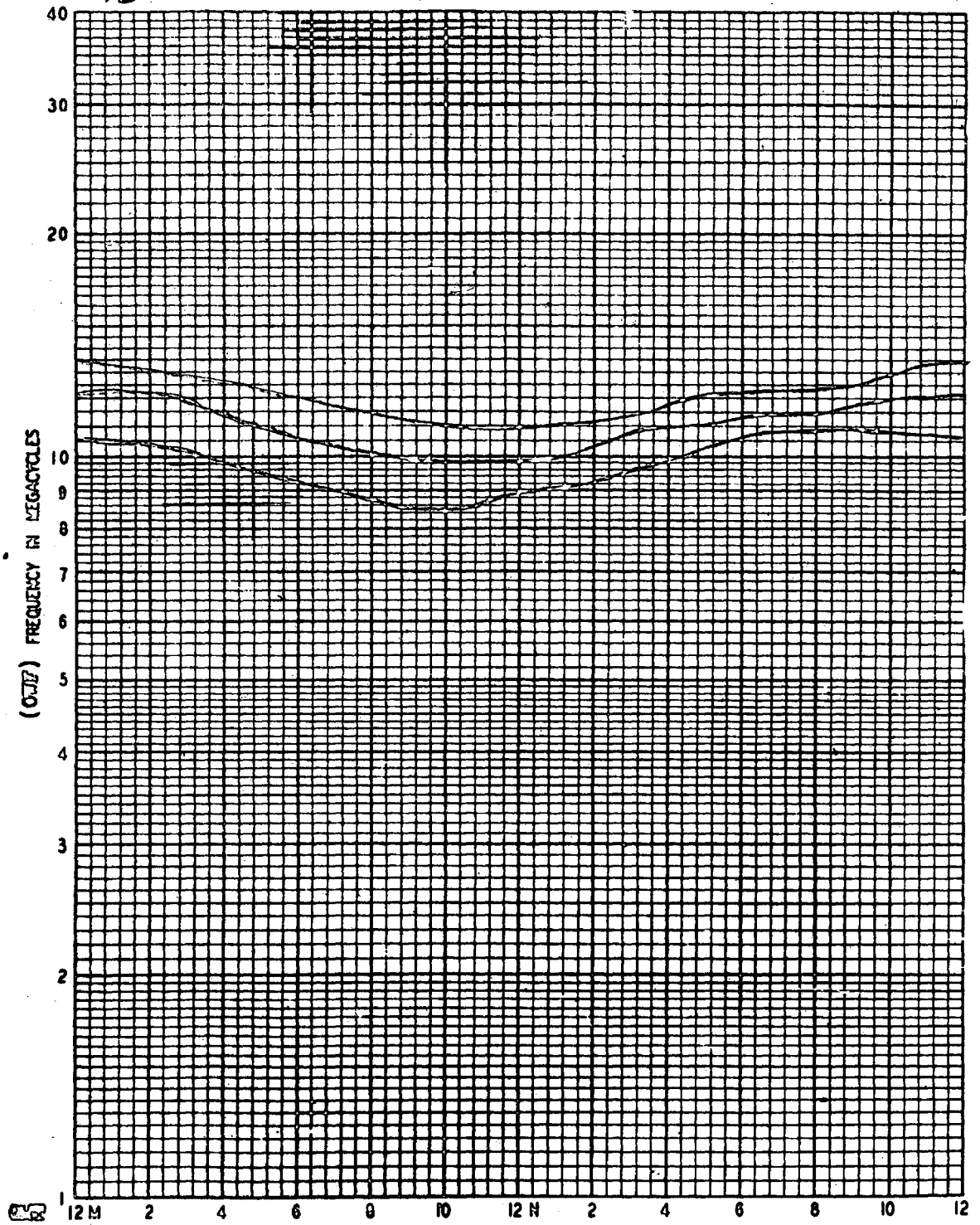
1-D

# OPTIMUM TRANSMITTING FREQUENCIES

Transmitter: 2 Receiver: 4

| | | | | | |
|---|---|---|---|---|---|
| | Lat. ____ | Long. ____ | | Lat. ____ | Long. ____ |
| Control Pt. | Lat. 65N | Long. ____ | Control Pt. | Lat. ____ | Long. ____ |
| | Zone W | Sunspot Number ____ | | Zone ____ | |

46½ JUNE 2400 km

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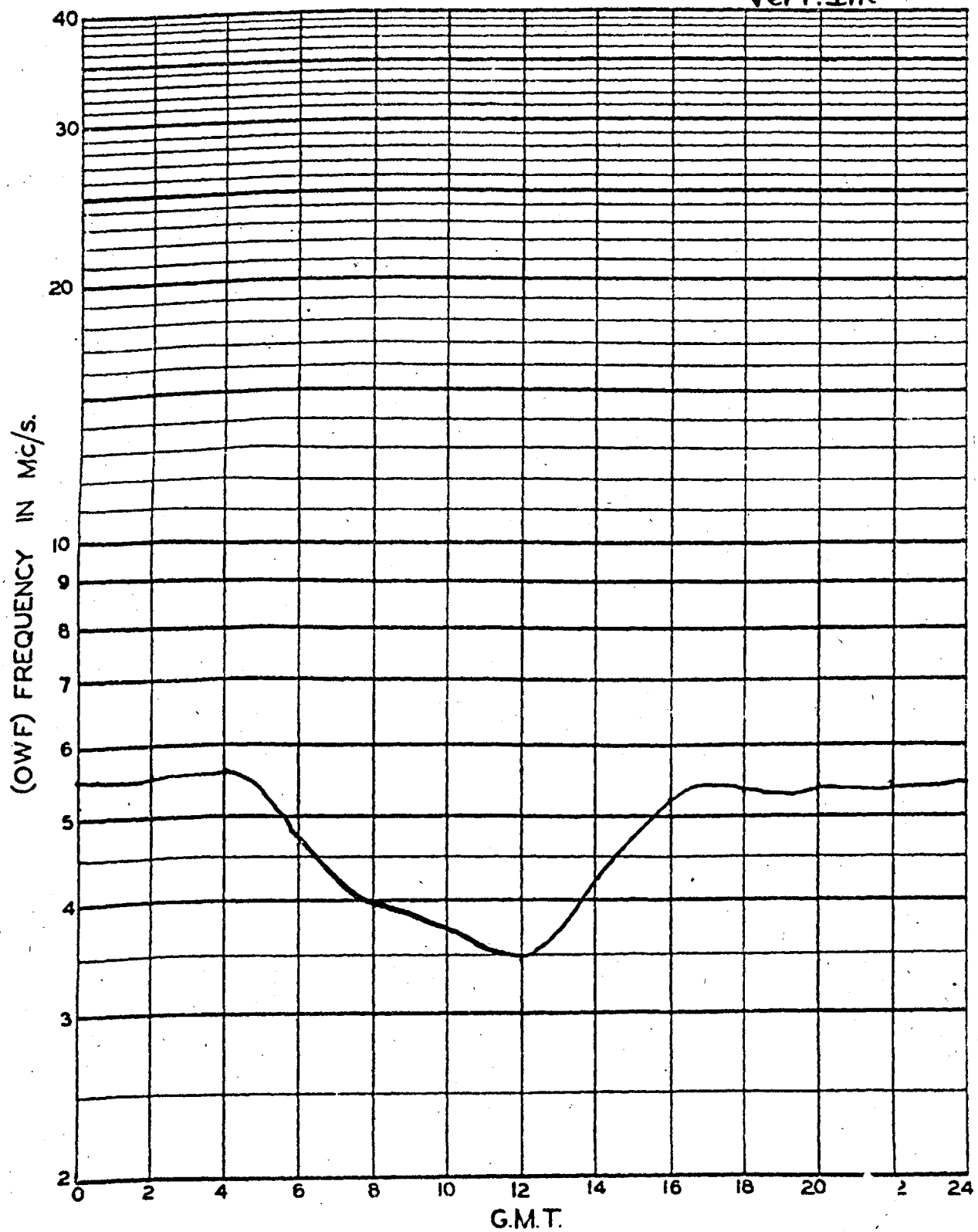
JUNE

# OPTIMUM TRANSMITTING FREQUENCIES

SUNSPOT NUMBER 40

TRANSMITTER AREA 2 RECEIVER AREA 2

Vert. Inc

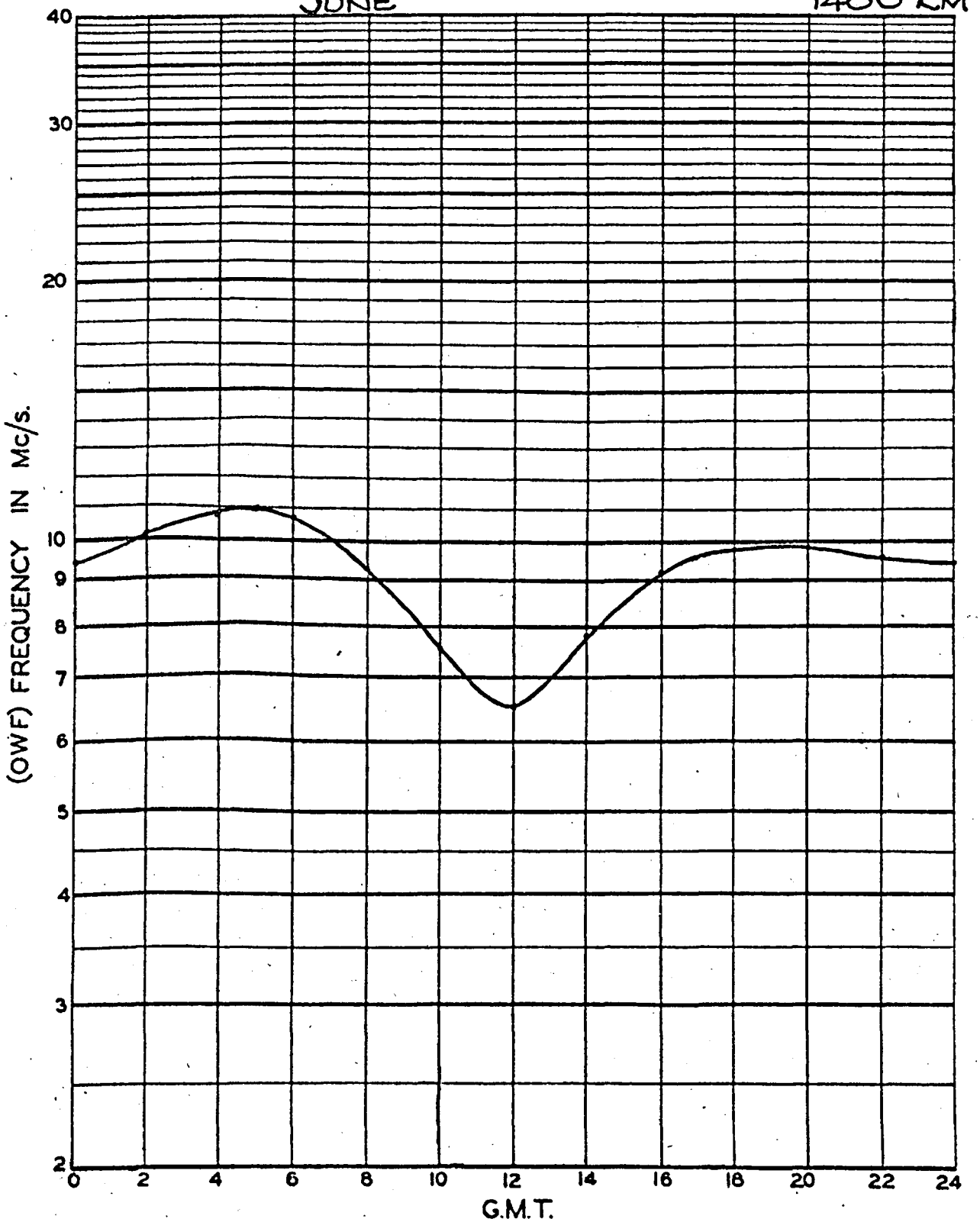


# OPTIMUM TRANSMITTING FREQUENCIES

SUNSPOT NUMBER...40.....

TRANSMITTER AREA.....2..... RECEIVER AREA.....2.....

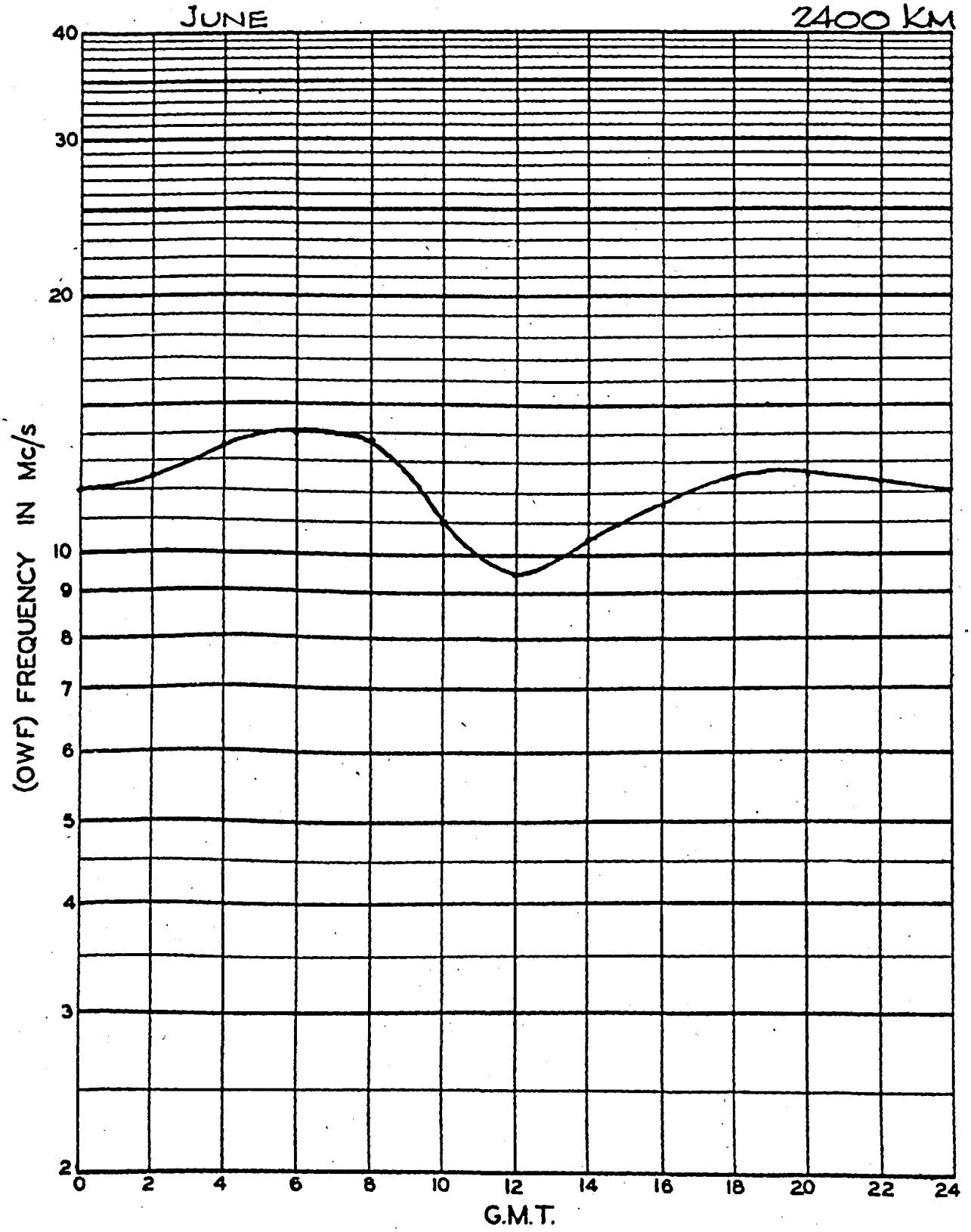
JUNE 1400 KM



# OPTIMUM TRANSMITTING FREQUENCIES

SUNSPOT NUMBER....40.....

TRANSMITTER AREA.....2..... RECEIVER AREA.....2.....

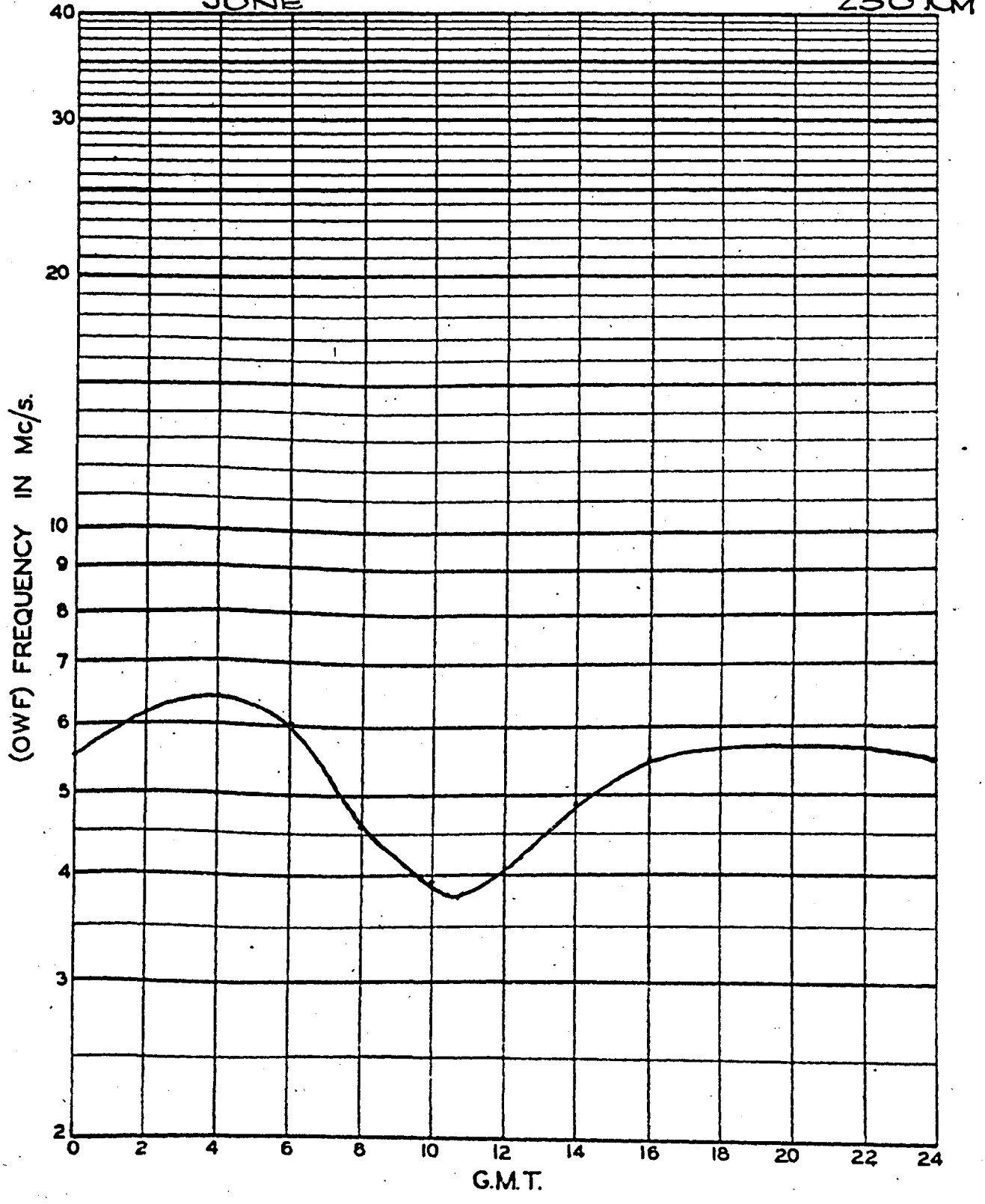


# OPTIMUM TRANSMITTING FREQUENCIES

SUNSPOT NUMBER....40.....

TRANSMITTER AREA....2.... RECEIVER AREA....2....

JUNE 250 KM

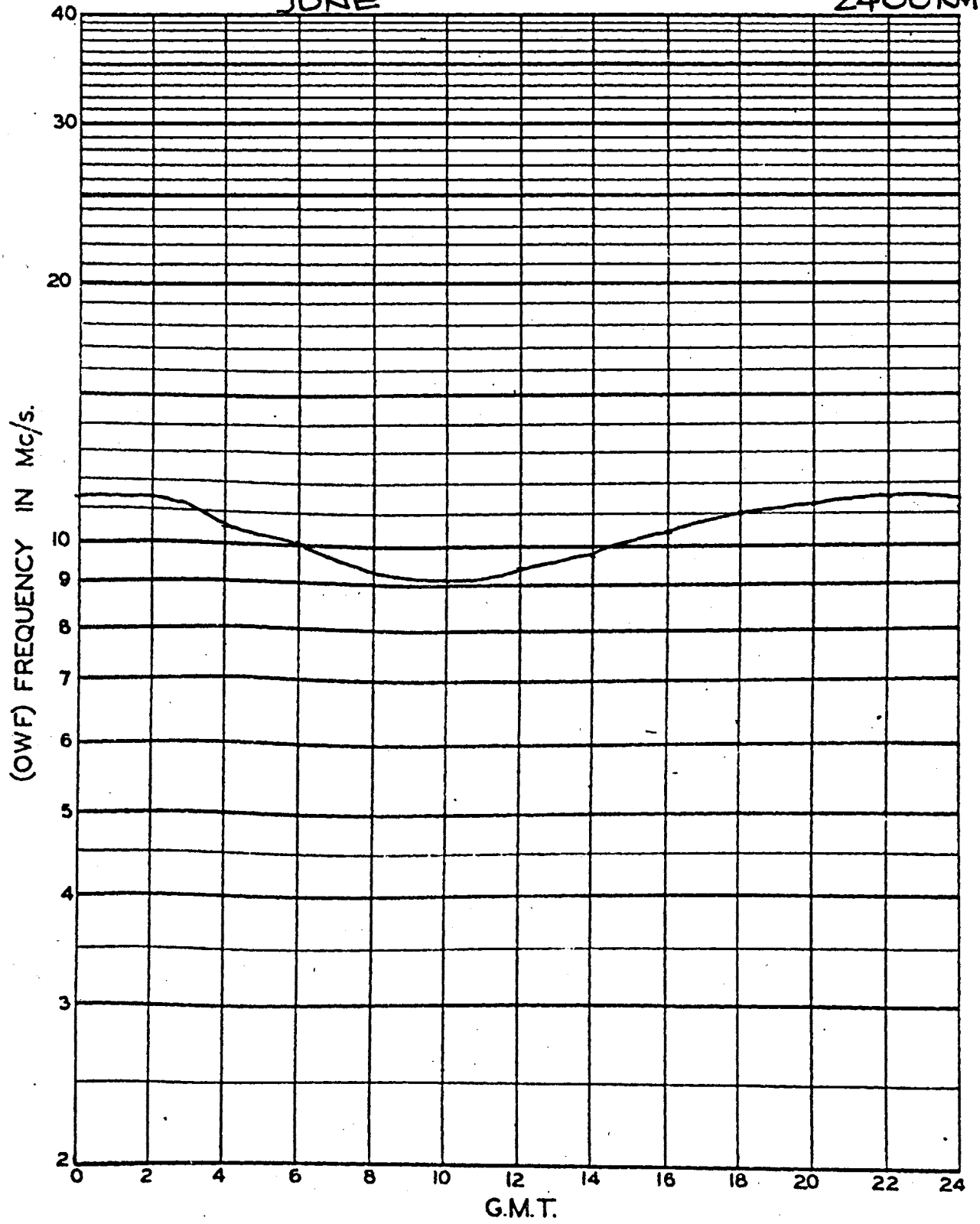


# OPTIMUM TRANSMITTING FREQUENCIES

SUNSPOT NUMBER...40.....

TRANSMITTER AREA.....2..... RECEIVER AREA.....4.....

JUNE 2400KM



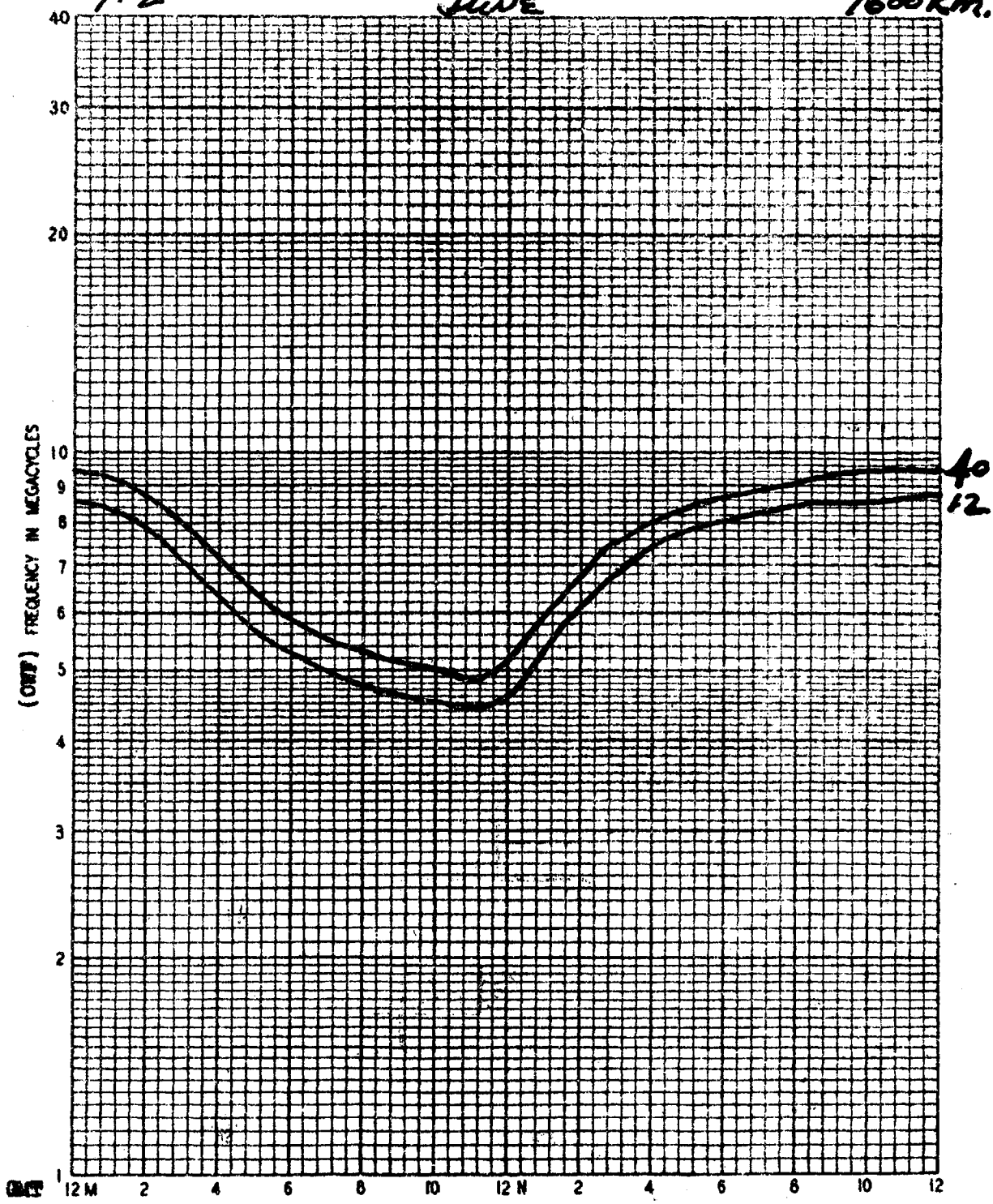
# OPTIMUM TRANSMITTING FREQUENCIES

Transmitter: 2 Receiver: 3

Control Pt. Lat. 67N Long. _____ Zone 1 Sunspot Number _____

Control Pt. Lat. _____ Long. _____ Zone _____

-7½ June 1600 Km.

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OPTIMUM TRANSMITTING FREQUENCIES

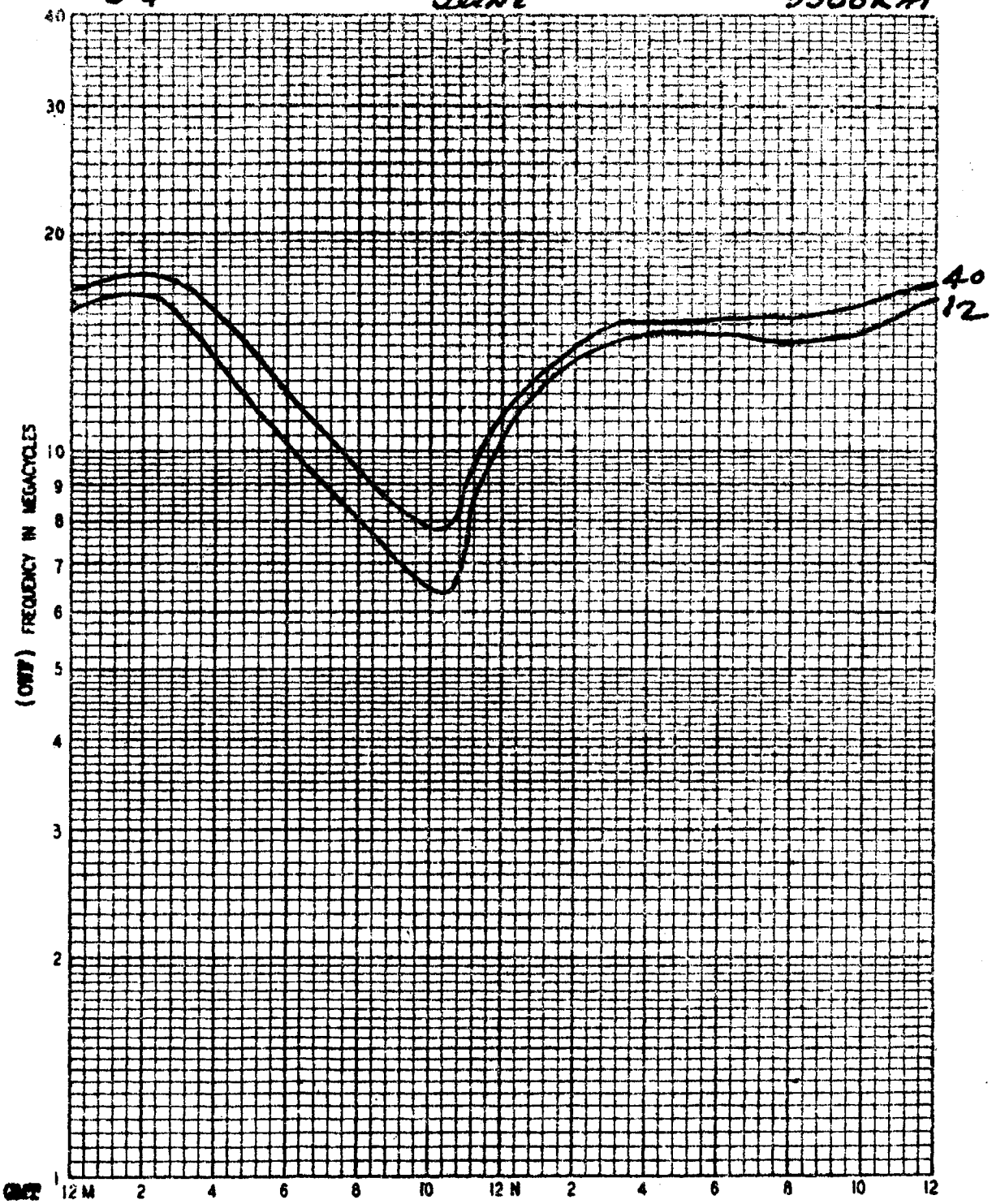
Transmitter: 4 Receiver: 10

Control Pt. Lat. ____ Long. ____ Zone ____ Sunspot Number ____

Control Pt. Lat. 38N Long. ____ Zone N

Control Pt. Lat. ____ Long. ____ Zone ____

-6¼ JUNE 3500 km

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# OPTIMUM TRANSMITTING FREQUENCIES

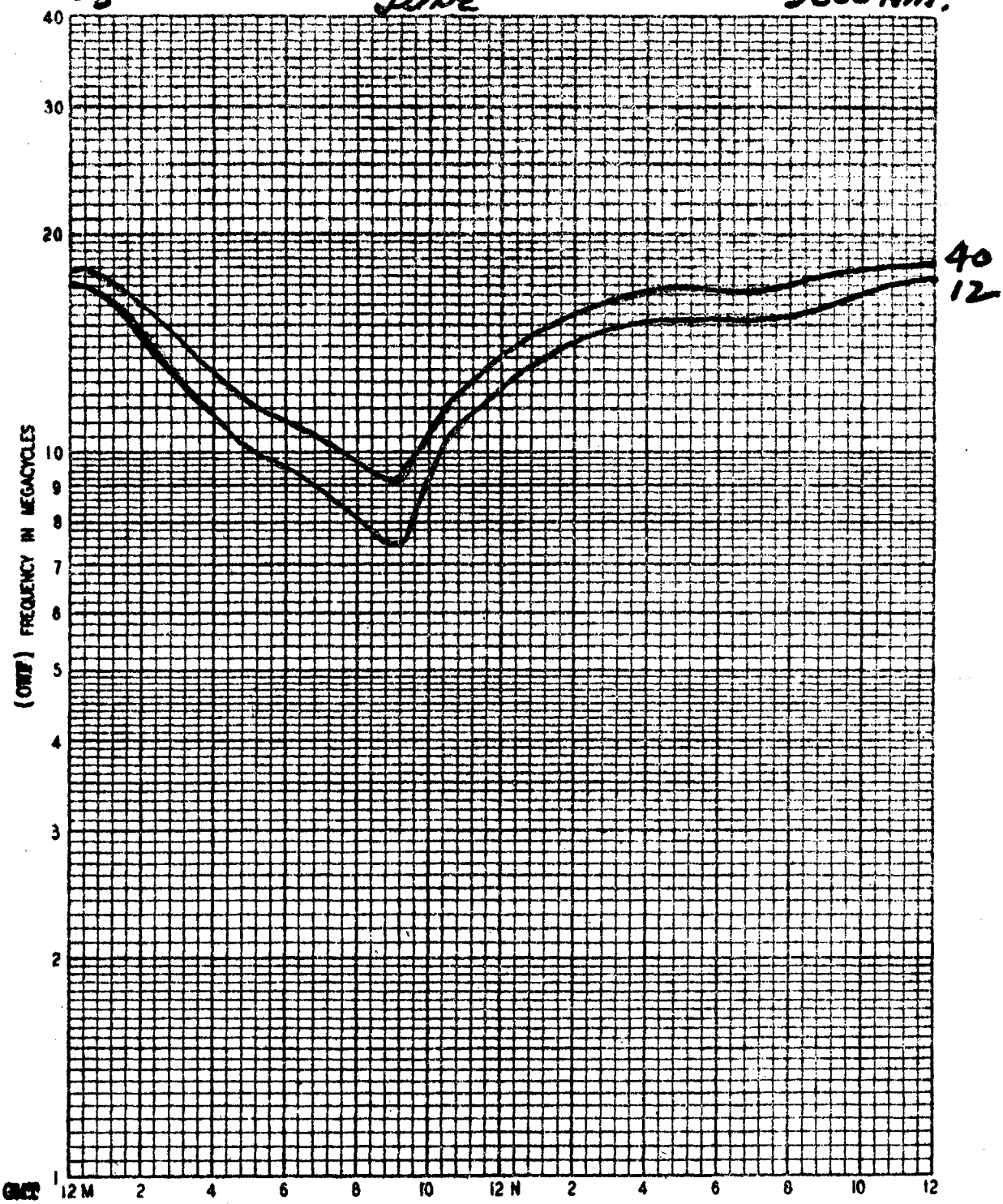
Transmitter: 4 Receiver: 11

Control Pt. Lat. ____ Long. ____ Zone ____ Sunspot Number ____

Control Pt. Lat. 34N Long. ____ Zone W

Control Pt. Lat. ____ Long. ____ Zone ____

-5 June 3600 Km.

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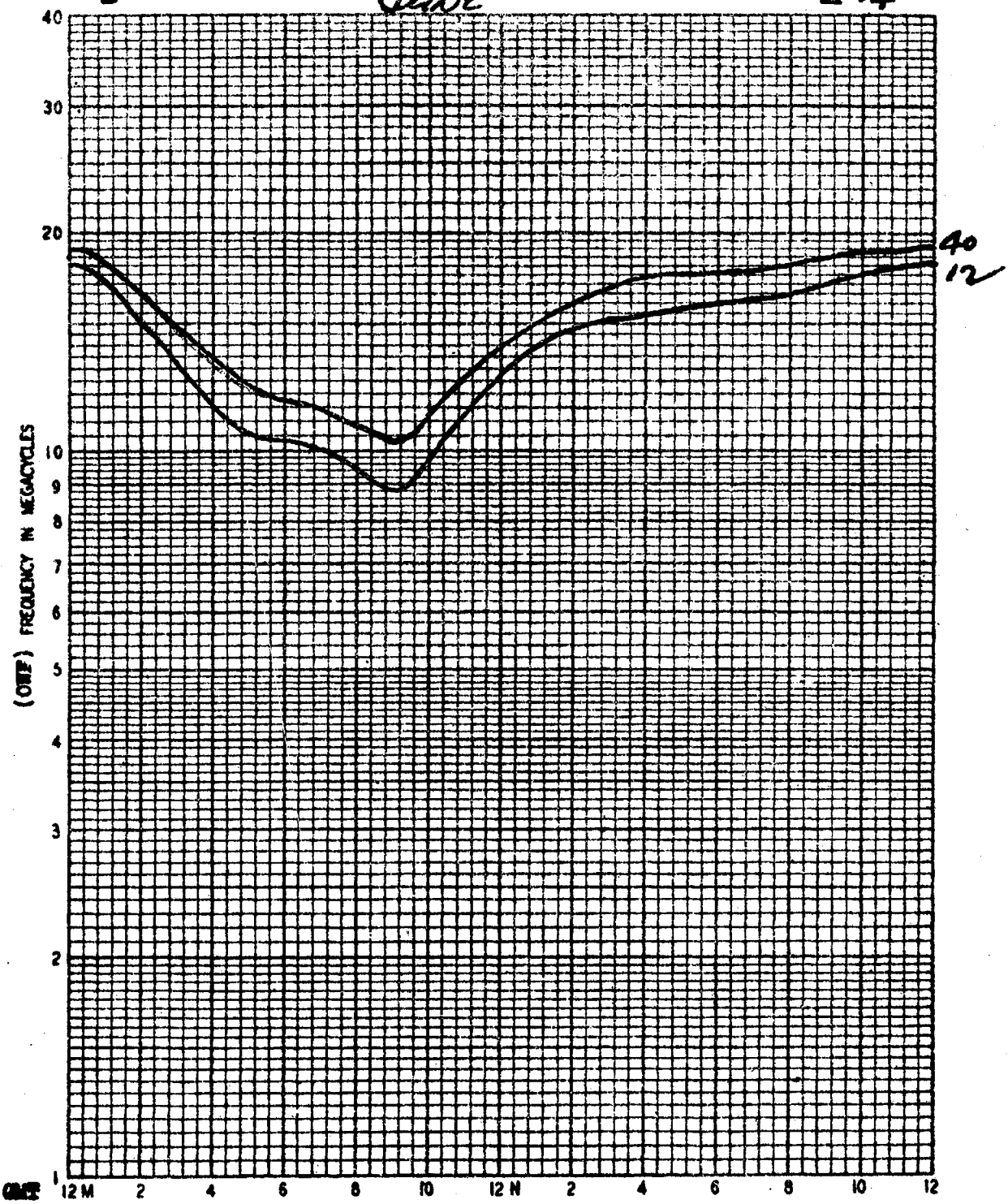
# OPTIMUM TRANSMITTING FREQUENCIES

Transmitter: 4 Receiver: 12

Control Pt. Lat. 32N Long. ____ Zone W Sunspot Number ____

Control Pt. Lat. 12N Long. ____ Zone W

-5 June E 1/4

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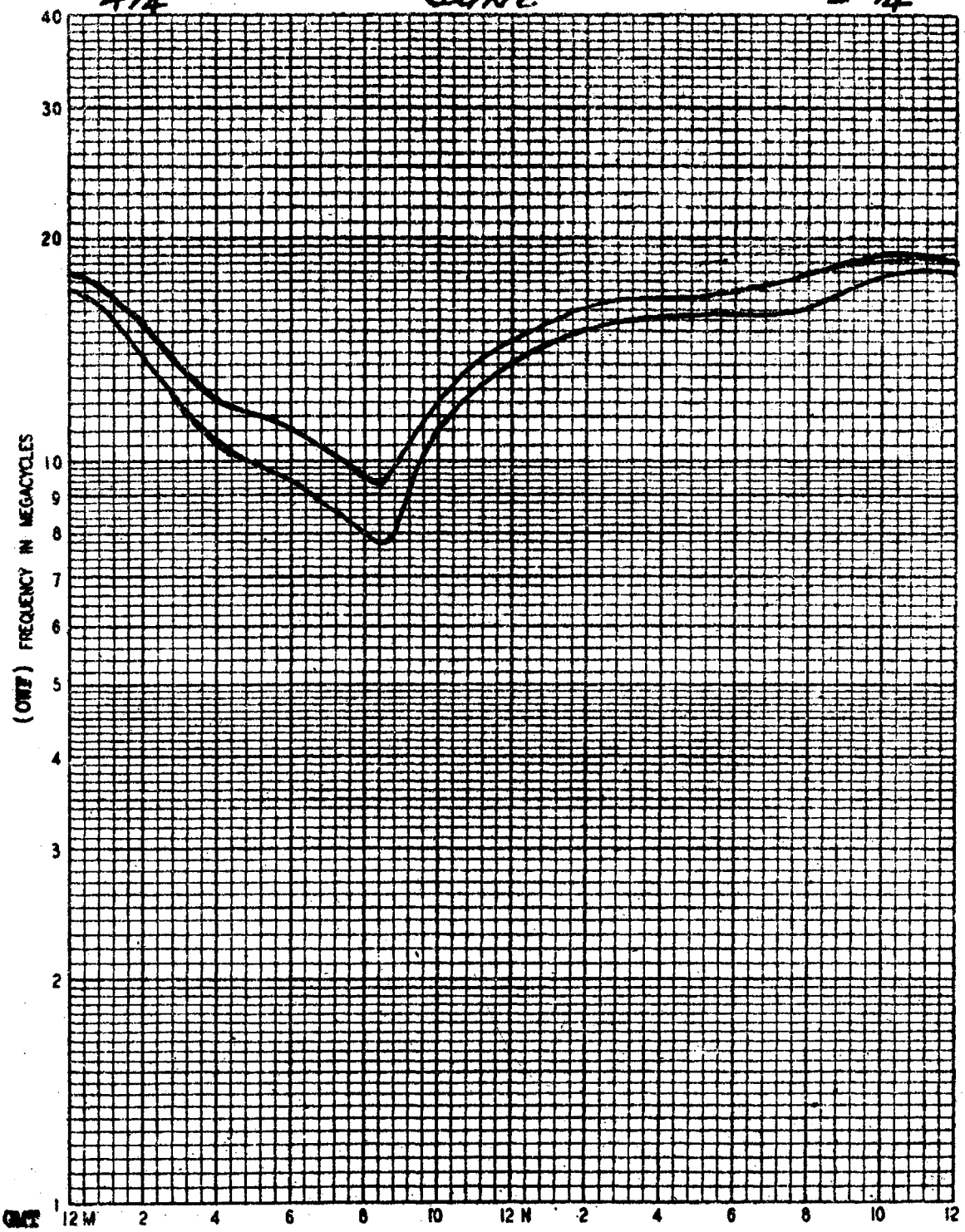
# OPTIMUM TRANSMITTING FREQUENCIES

Transmitter: 4 Receiver: 13

Control Pt. Lat. 24N Long. ____ Zone W Sunspot Number ____

Control Pt. Lat. 12N Long. ____ Zone W

-4¼ JUNE E ¾

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