Fig. 50-9.1-0 Wind field geometry for Case IV. A,B and C denote special output points.

#9   1.5 —

CASE 4   MRI

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
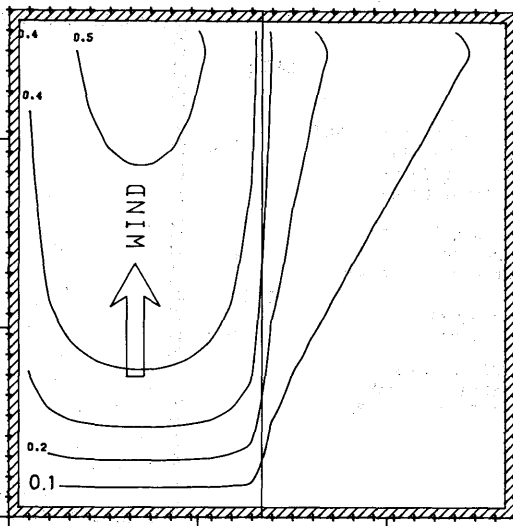VEL. OF WIND :   20 M/SEC

TIME 72 HOURS
T* IS 2972764.

CONTOURS OF SCALED E
ON INTERVAL 0.1

Y*
(10⁷)

#9   1.5 —

CASE 4   MRI-II

Y*
(10⁷)

TIME=72 HOURS
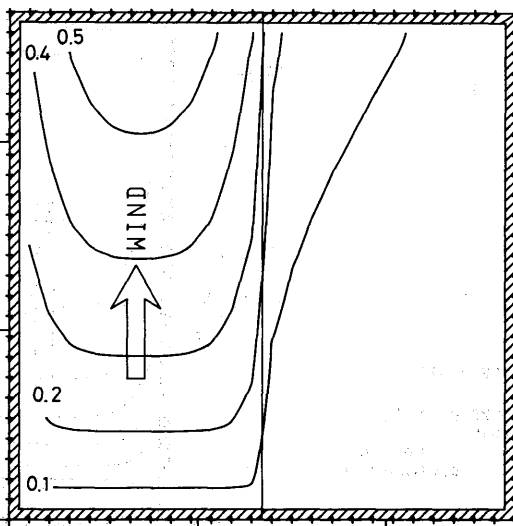
CONTOURS OF SCALED E
ON INTERVAL 0.1

Fig. 51-0-18   countours of E/E_{PM} vs. X^* and Y^*

#10

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS
T* IS 2972764.

CONTOURS OF $\bar{f}/f_{PM}$
ON INTERVAL 0.1 FOR
RANGE 1 TO 2, 0.5 FOR >2

#10

CASE 4

TIME=72 HOURS

CONTOURS OF f_p/f_{PM}
INTERVAL
0.1 FOR 1 TO 2
0.5 FOR G.T. 2

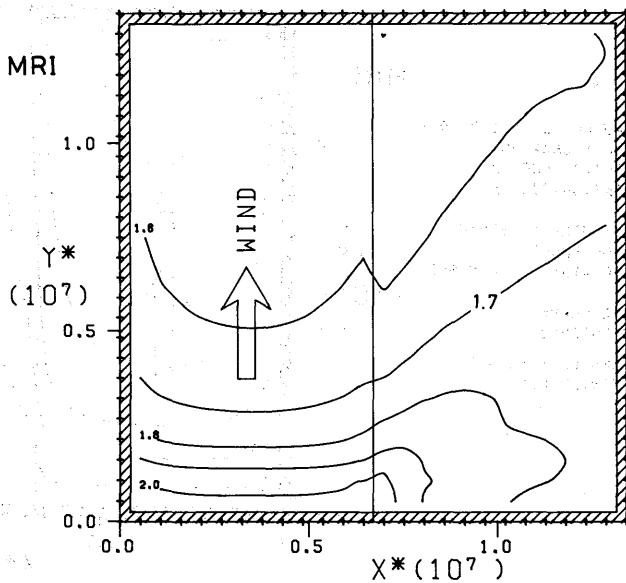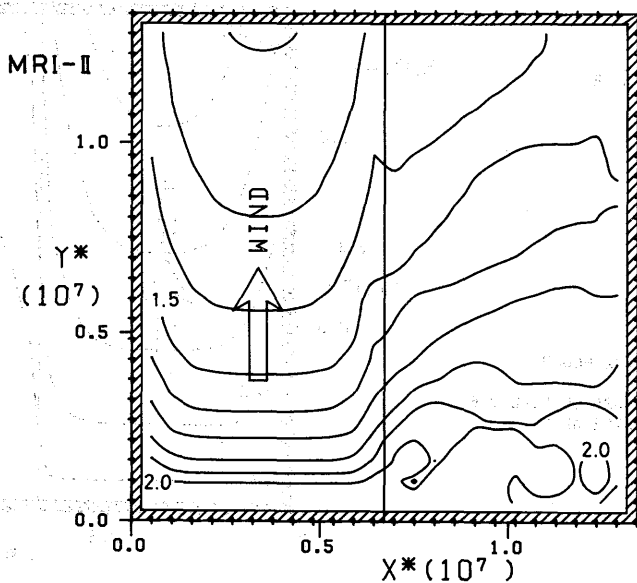Fig. 52-0-19   countours of $\bar{f}/f_{PM}$ vs. X^* and Y^*

#11

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT OF THE FRONT
VEL. OF WIND : 20 M/SEC

TIME : 72 HOURS
T* IS 2972764.

ARROW LENGTH : E/E$_{PM}$
DIRECTION=∅
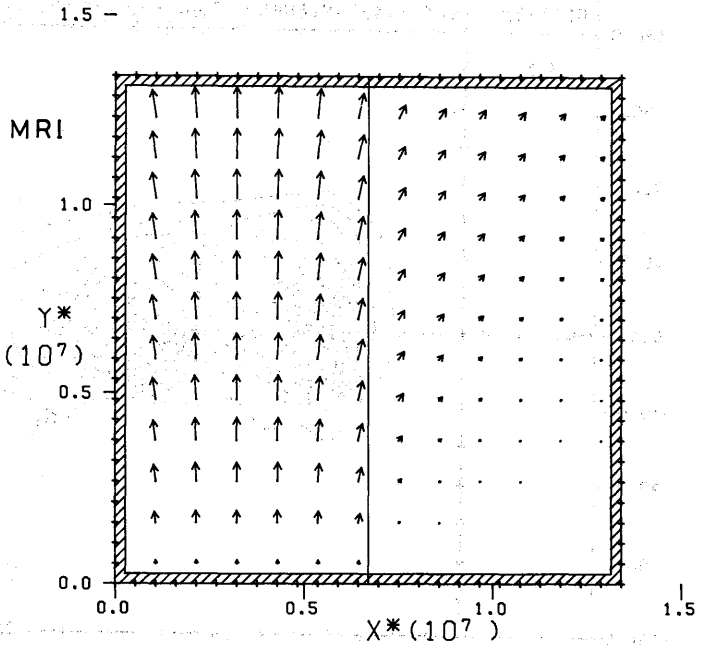
#11

CASE 4

TIME=72 HOURS

ARROW LENGTH : E/E$_{PM}$
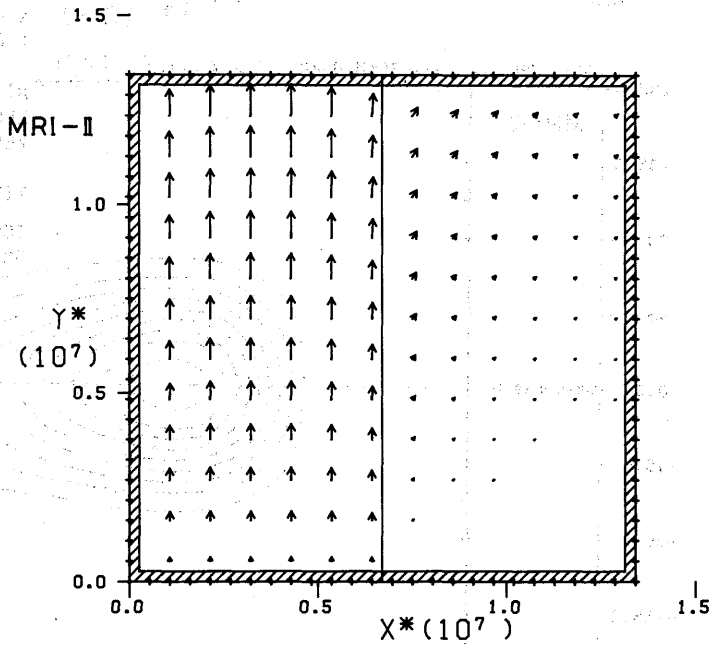
Fig. 53-9.2-20   custer diagram of E/E_{PM} and $\bar{\theta}$ vs. X^* and Y^*

LOCATION (X,Y)=(480KM,80KM) F_MAX= 5.93(m²S/RAD)

MRI

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

LOCATION (X,Y)=(480KM,80KM) F_MAX=4.74 (m²S/RAD)

MRI-II

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS

CONTOURS OF F/F_MAX
ON INTERVAL 0.1

WIND

Fig. 54-0-0   scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for $T = 72$ hrs and point
(480,80)

LOCATION (X,Y)=(480KM,320KM) F_{MAX}=32.39(m^2S/RAD)

MRI

#8

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS

CONTOURS OF F/F_{MAX}
ON INTERVAL 0.1

$f*(10^{-2})$

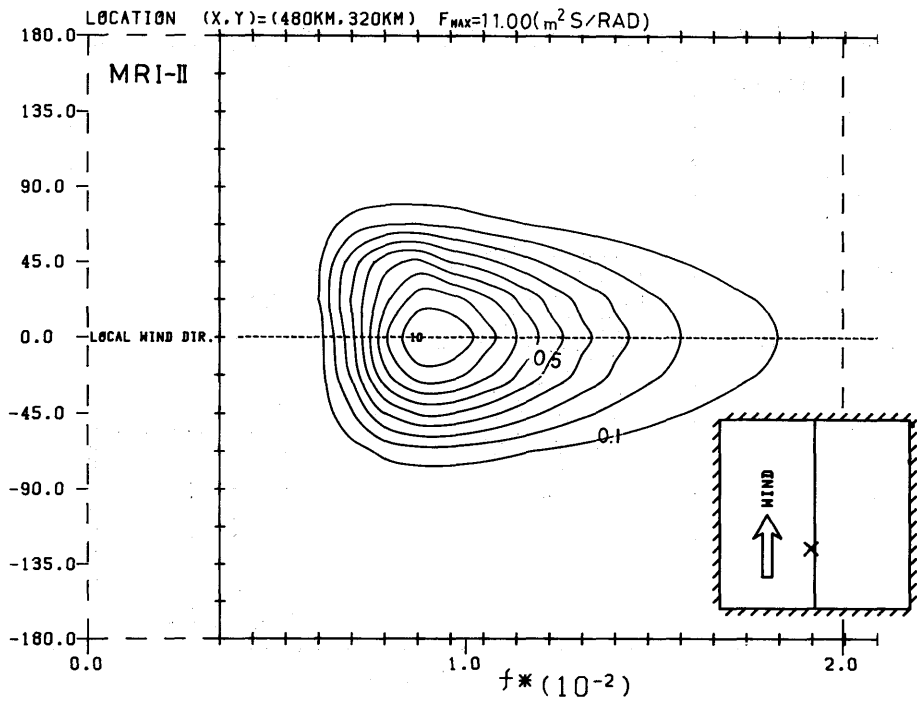LOCATION (X,Y)=(480KM,320KM) F_{MAX}=11.00(m^2S/RAD)

MRI-II

$f*(10^{-2})$

Fig. 55-0-21   scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for $T = 72$ hrs and point (480,320)

LOCATION (X,Y)=(480KM,760KM) F_MAX=45.12 (m²S/RAD)

MRI

#8

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS

CONTOURS OF F/F_MAX
ON INTERVAL 0.1

LOCAL WIND DIR.

f* (10⁻²)

LOCATION (X,Y)=(480KM,760KM) F_MAX=20.25(m² S/RAD)

MRI-II

LOCAL WIND DIR.

WIND

f* (10⁻²)

Fig. 56-0-0 scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{\text{MAX}}$ for $T = 72$ hrs and point (480,760)

LOCATION (X,Y)=(520KM,80KM) F_MAX=1.76(m²S/RAD)

MRI

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

LOCATION (X,Y)=(520KM,80KM) F_MAX=1.32(m²S/RAD)

MRI-II
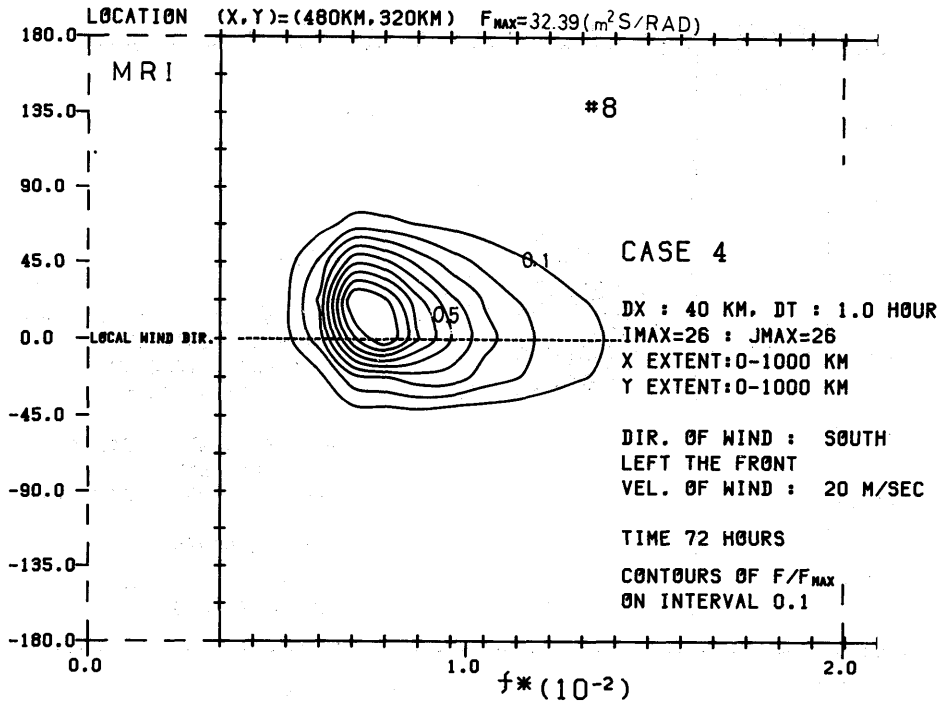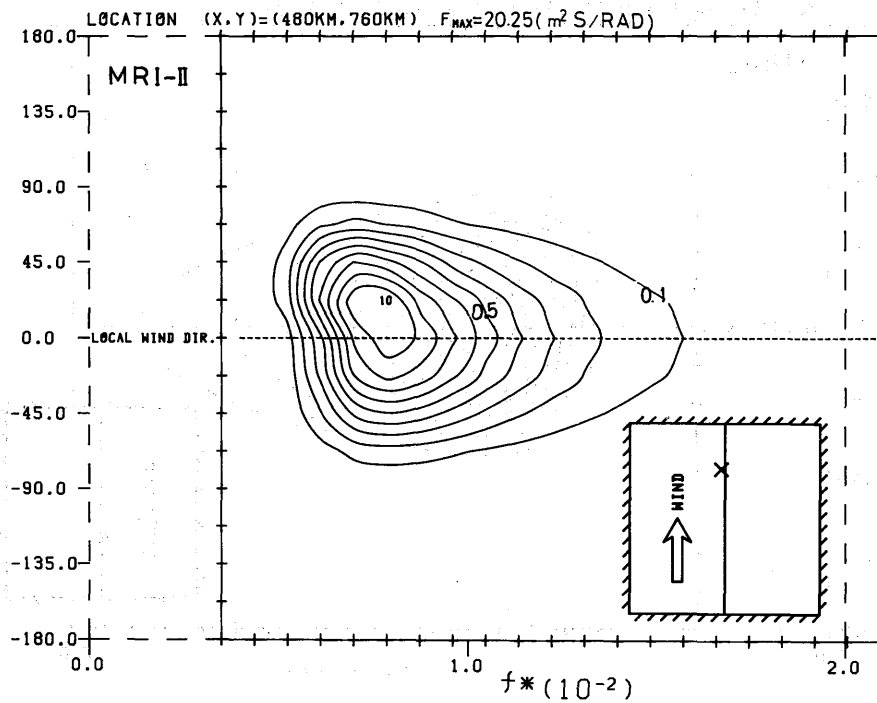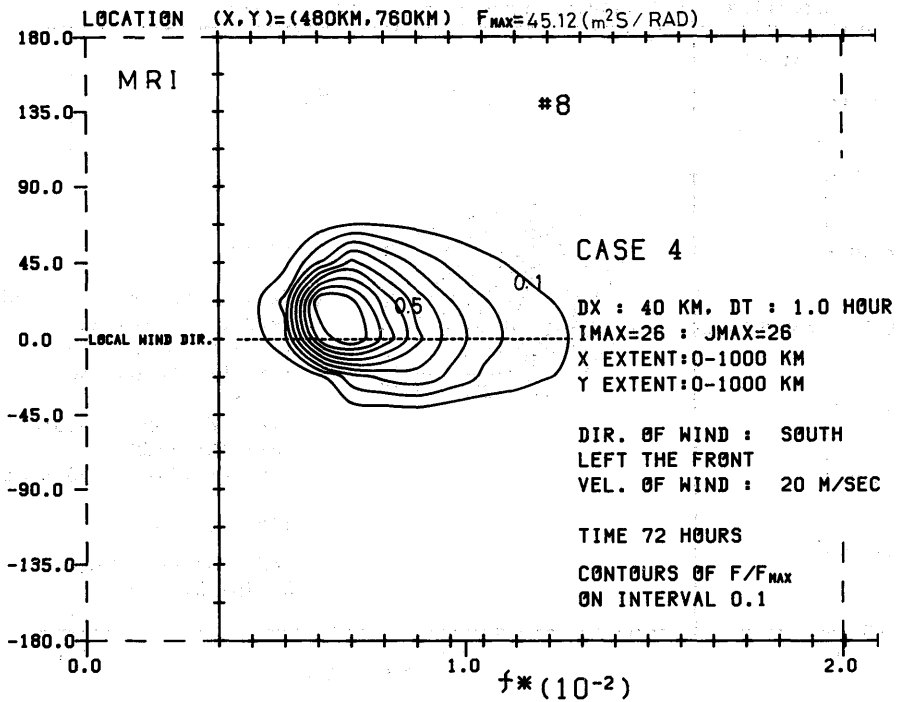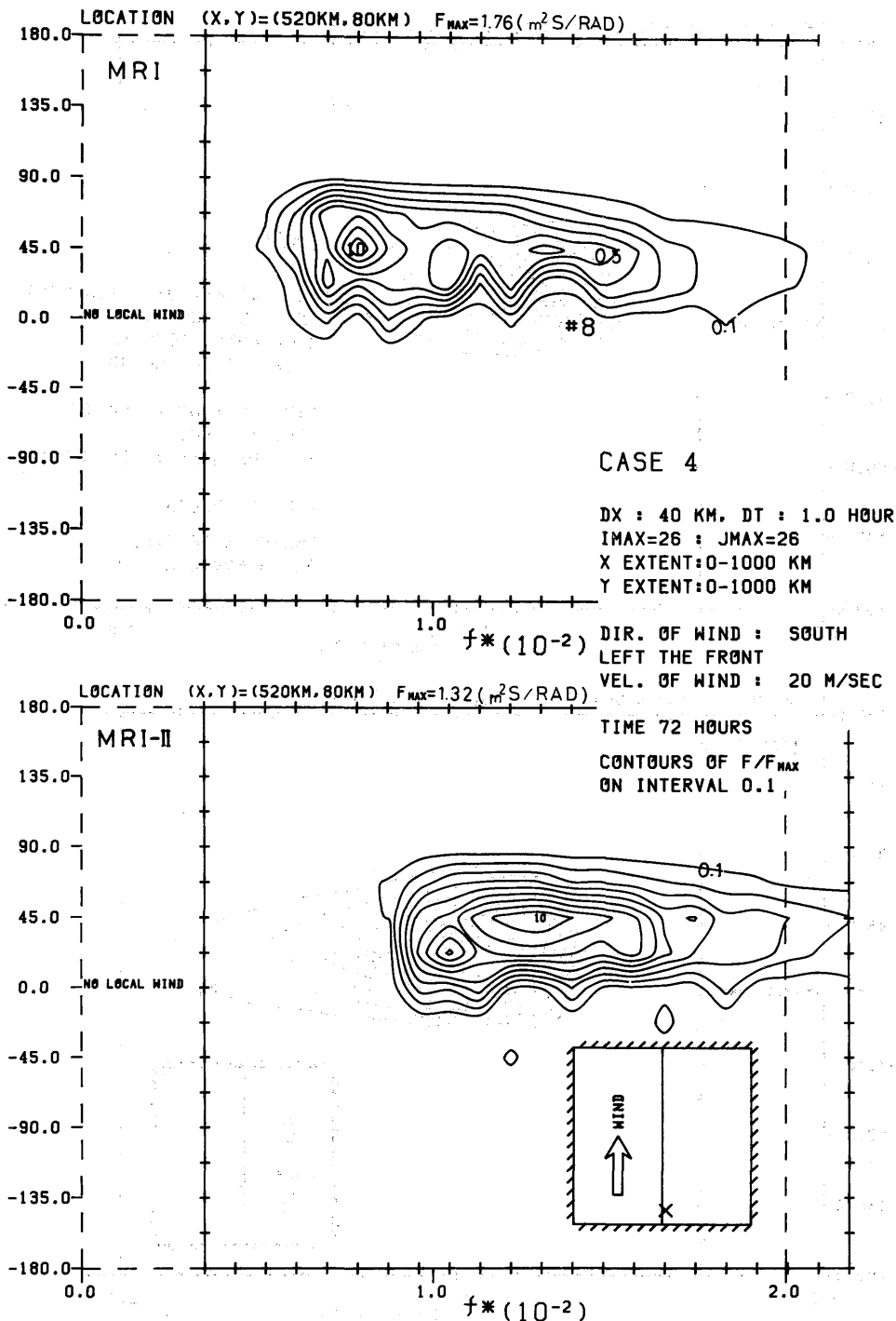
TIME 72 HOURS

CONTOURS OF F/F_MAX
ON INTERVAL 0.1

WIND

Fig. 57-0-0 scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for $T = 72$ hrs and point (520,80)

Fig. 58-0-22   scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{\text{MAX}}$ for $T = 72$ hrs and point (520,320)

LOCATION (X,Y)=(520KM,760KM) F_{MAX}=41.31(m²S/RAD)

MRI

#8

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS

CONTOURS OF F/F_{MAX}
ON INTERVAL 0.1

NO LOCAL WIND

$f*(10^{-2})$

LOCATION (X,Y)=(520KM,760KM) F_{MAX}=18.23(m²S/RAD)
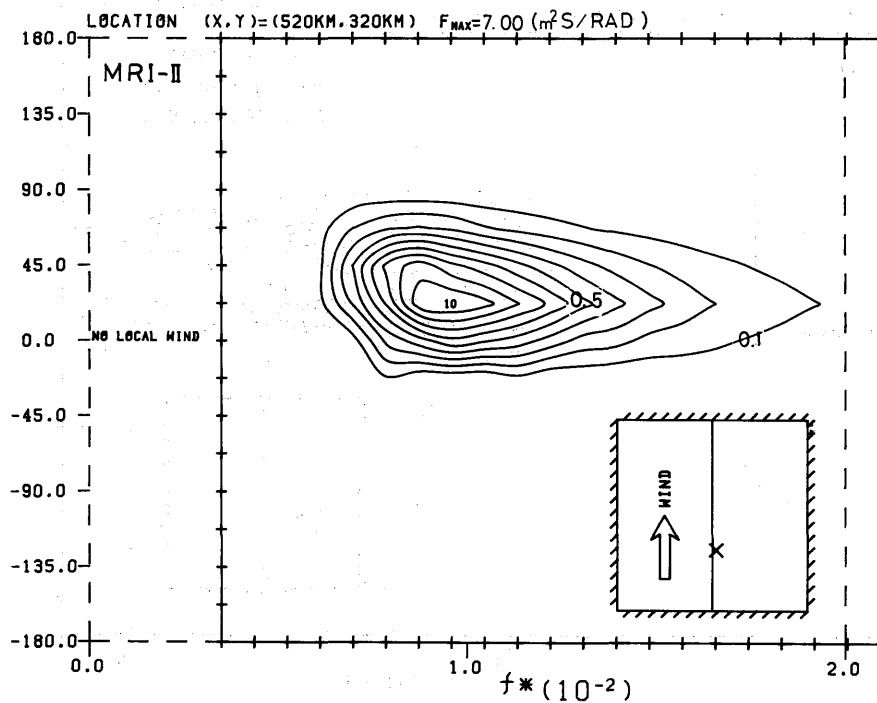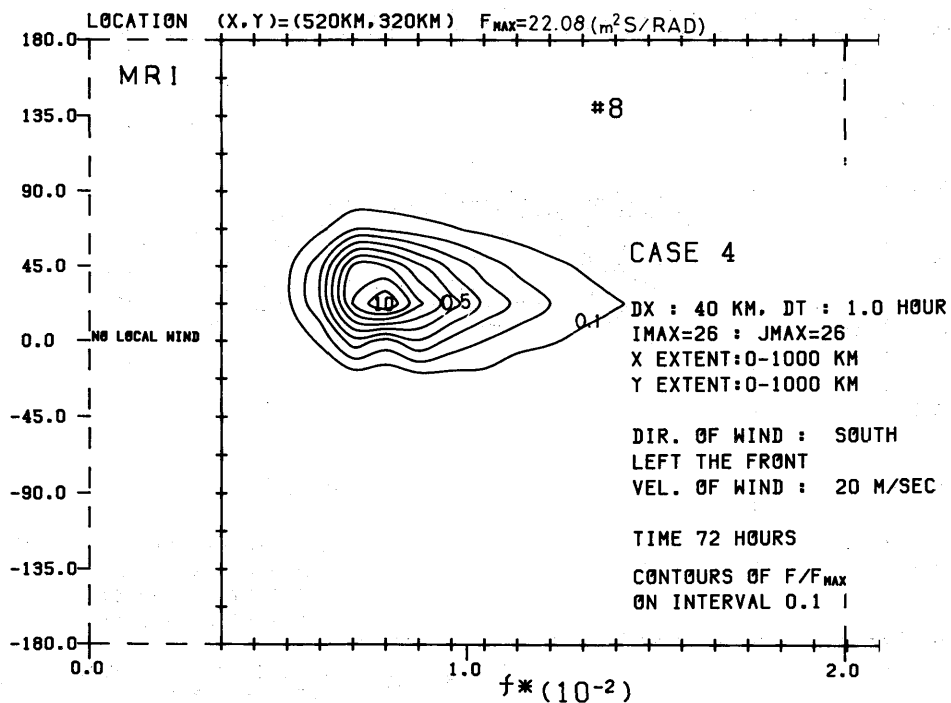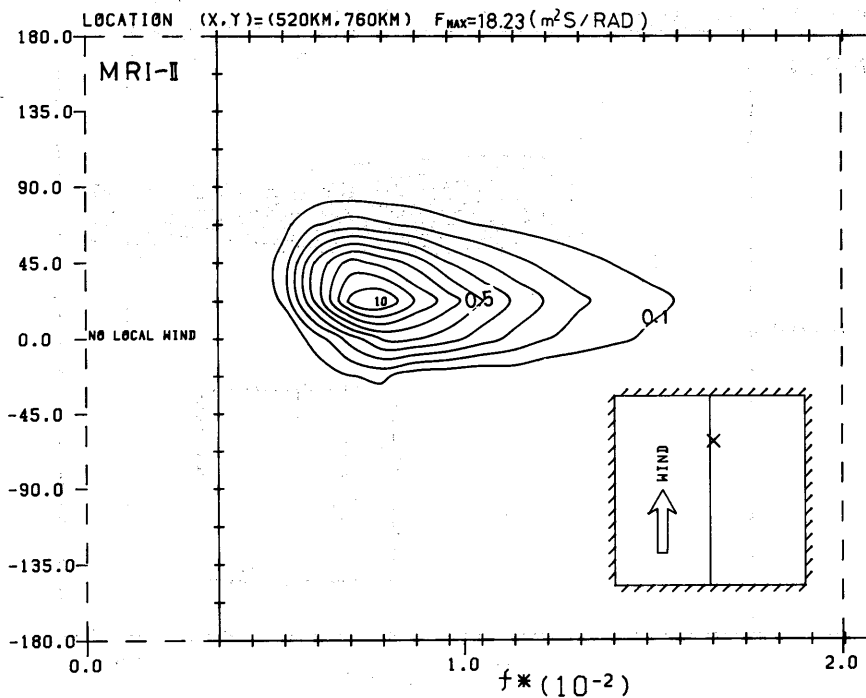
MRI-II

NO LOCAL WIND

WIND

$f*(10^{-2})$
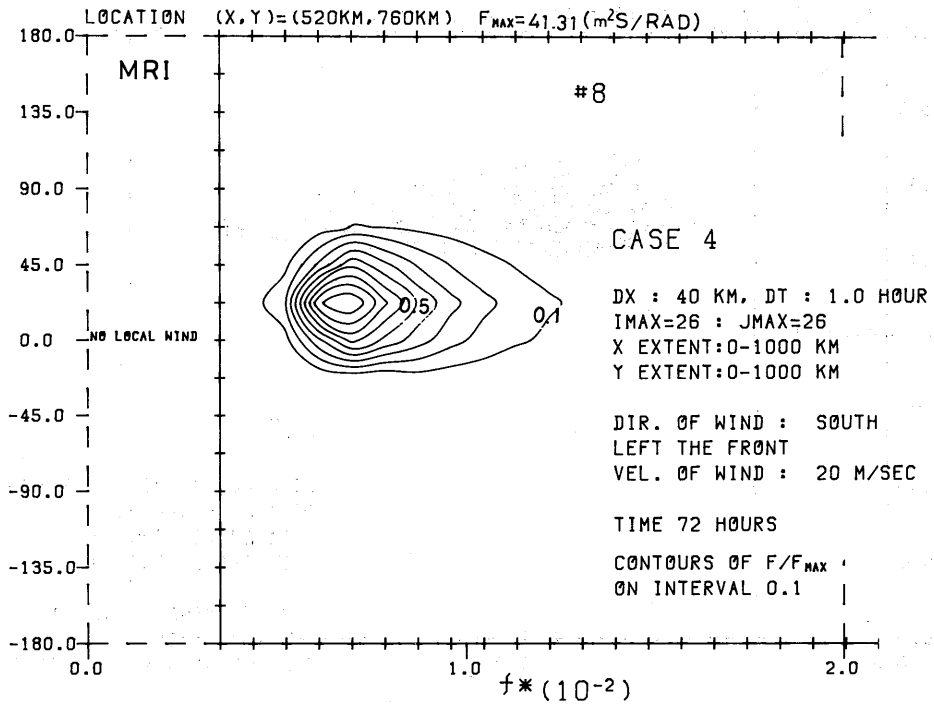
Fig. 59-0-0 scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for $T = 72$ hrs and point
(520,760)

LOCATION (X,Y)=(760KM,80KM) F$_{MAX}$=2.55(m^{2}S/RAD)

MRI

#8

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS

LOCATION (X,Y)=(760KM,80KM) F$_{MAX}$=1.02(m^{2}S/RAD)

CONTOURS OF F/F$_{MAX}$
ON INTERVAL 0.1

MRI-II

WIND

f* (10^{-2})

Fig. 60-0-0 scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for $T = 72$ hrs and point (760,80)

LOCATION (X,Y)=(760KM,320KM) F_{MAX}=3.34(m^2S/RAD)

MRI

#8

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

$f*(10^{-2})$

LOCATION (X,Y)=(760KM,320KM) F_{MAX}=1.48 (m^2S/RAD)

TIME 72 HOURS

CONTOURS OF F/F_{MAX}
ON INTERVAL 0.1

MRI-II

NO LOCAL WIND

WIND

$f*(10^{-2})$

Fig. 61-0-0 scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for T = 72 hrs and point (760,320)

LOCATION (X,Y)=(760KM,760KM) F_MAX=22.54(m²S/RAD)

MRI

#8

CASE 4

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

DIR. OF WIND : SOUTH
LEFT THE FRONT
VEL. OF WIND : 20 M/SEC

TIME 72 HOURS

CONTOURS OF F/F_MAX
ON INTERVAL 0.1

$f*$ (10⁻²)

LOCATION (X,Y)=(760KM,760KM) F_MAX=9.14(m²S/RAD)

MRI-II

$f*$ (10⁻²)
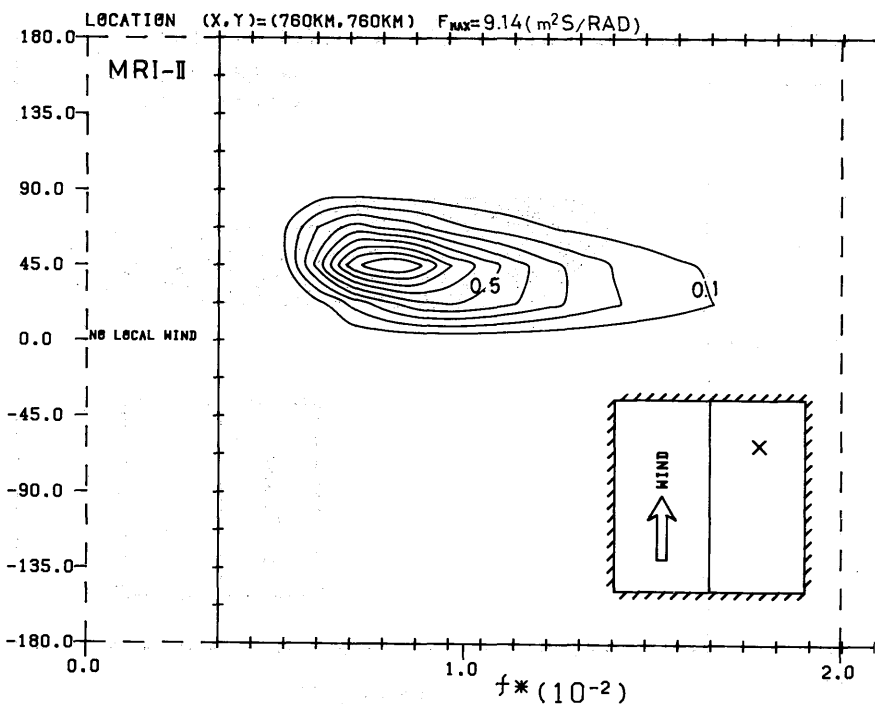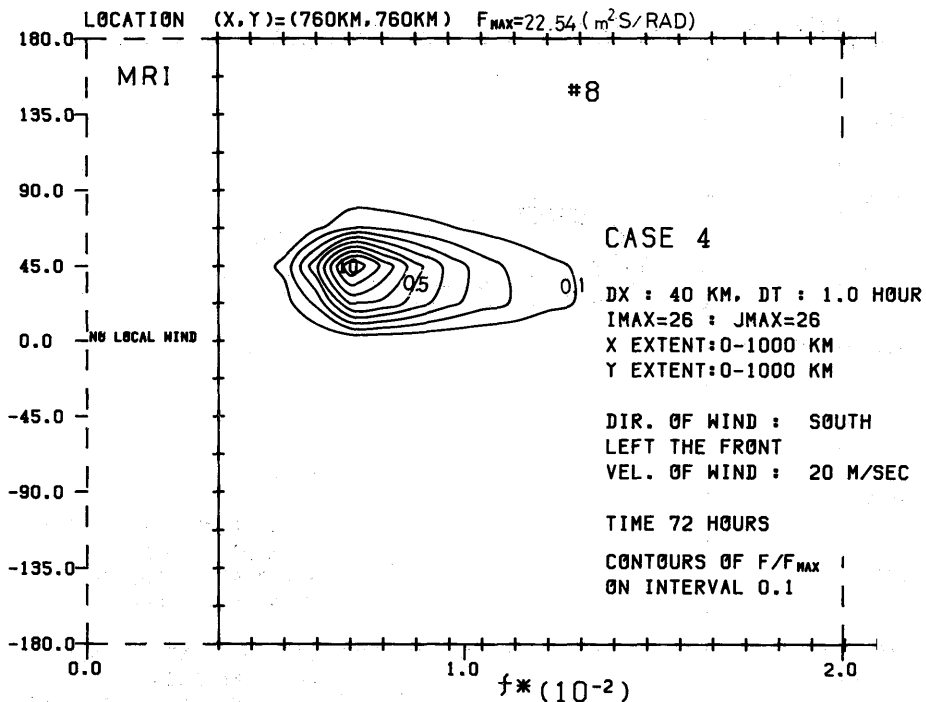
Fig. 62-9.4-23   scaled 2-D spectrum $F(f,\theta)/F(f,\theta)_{MAX}$ for $T = 72$ hrs and point
(760,760)

F/F_PM

1.5

MRI

⊕———POSITION(480 KM, 760 KM)
▲———POSITION(480 KM, 320 KM)
+———POSITION(480 KM, 80 KM)

1.0

CASE 4   #7

DX : 40 KM, DT : 1.0 HOUR
IMAX=26 : JMAX=26
X EXTENT:0-1000 KM
Y EXTENT:0-1000 KM

SCALED 1-D SPECTRA
F(f)/F_PM (f_PM)

0.5

0.0

0.0   0.5   1.0   1.5   2.0

$f*(10^{-2})$

F/F_PM

1.5

TIME= 72 HOURS

MRI-II

⊕———POSITION(480 KM, 760 KM)
▲———POSITION(480 KM, 320 KM)
+———POSITION(480 KM, 80 KM)

1.0

WIND

0.5

0.0

0.0   0.5   1.0   1.5   2.0

$f*(10^{-2})$
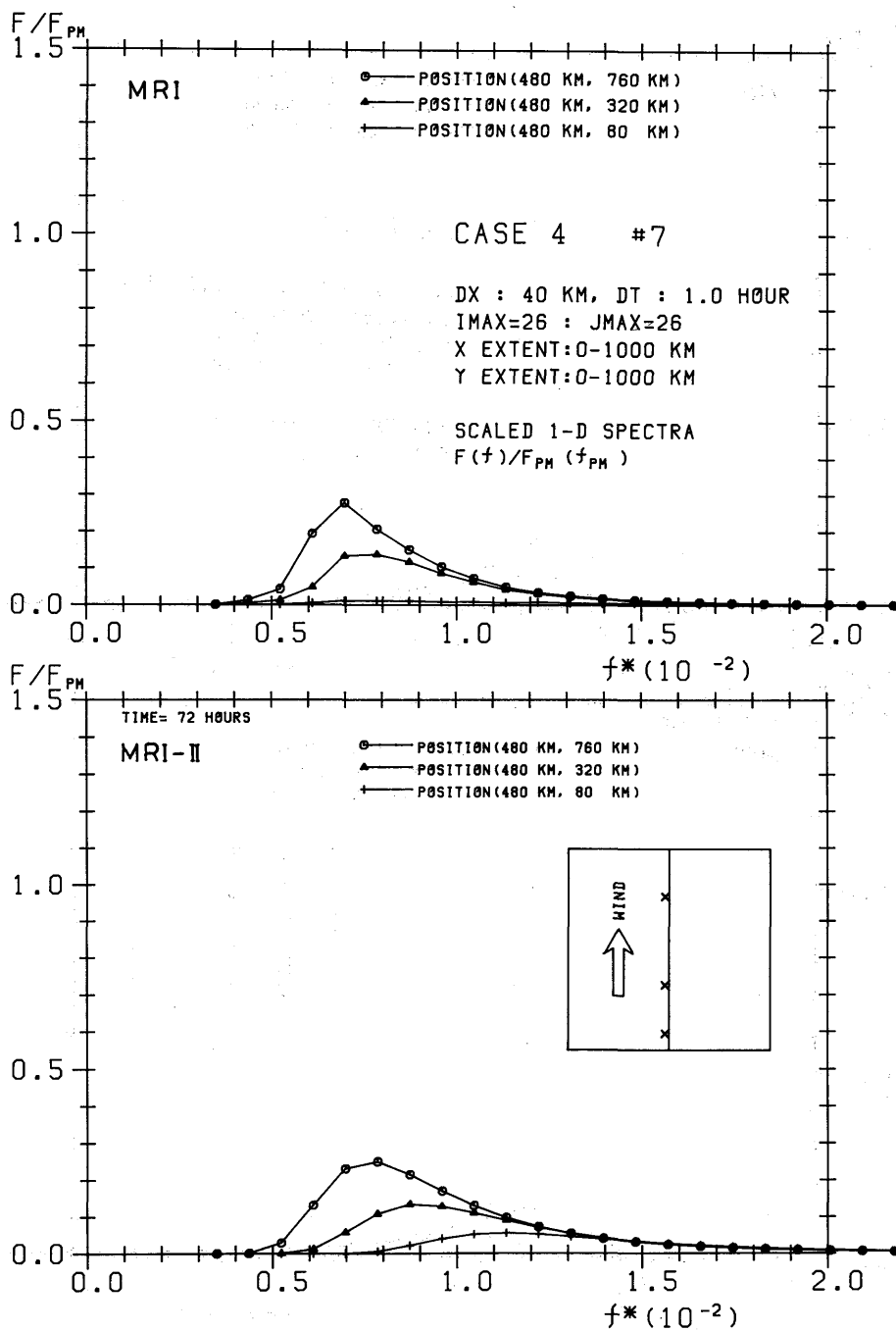
Fig. 63-0-24   scaled 1-D spectrum $F(f)/F(f_{PM})$ for $T = 72$ hrs and point (480, 80), (480,320) and (480,760)
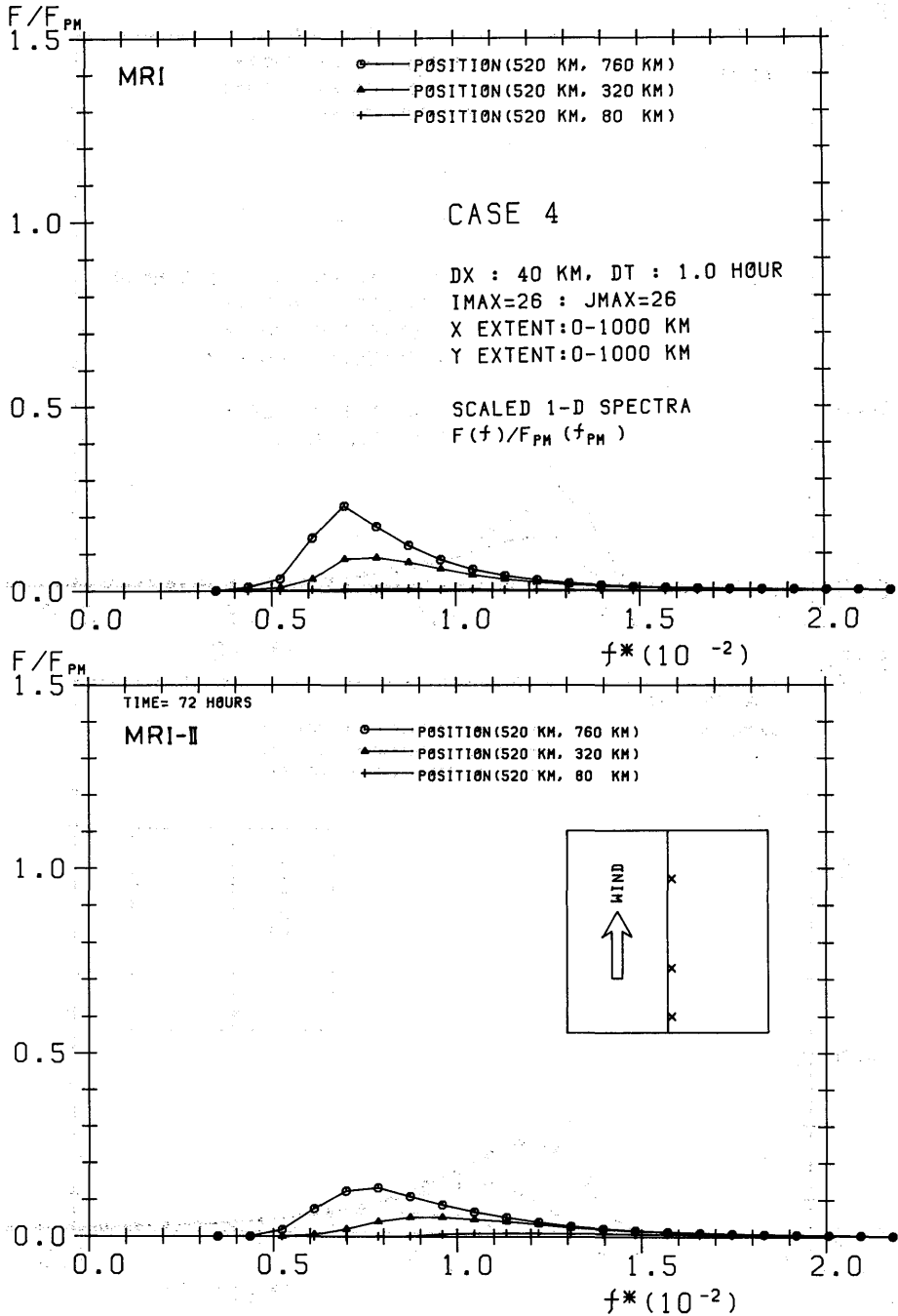
Fig. 64-0-0   scaled 1-D spectrum $F(f)/F(f_{PM})$ for $T = 72$ hrs and point (520, 80), (520,320) and (520,760)
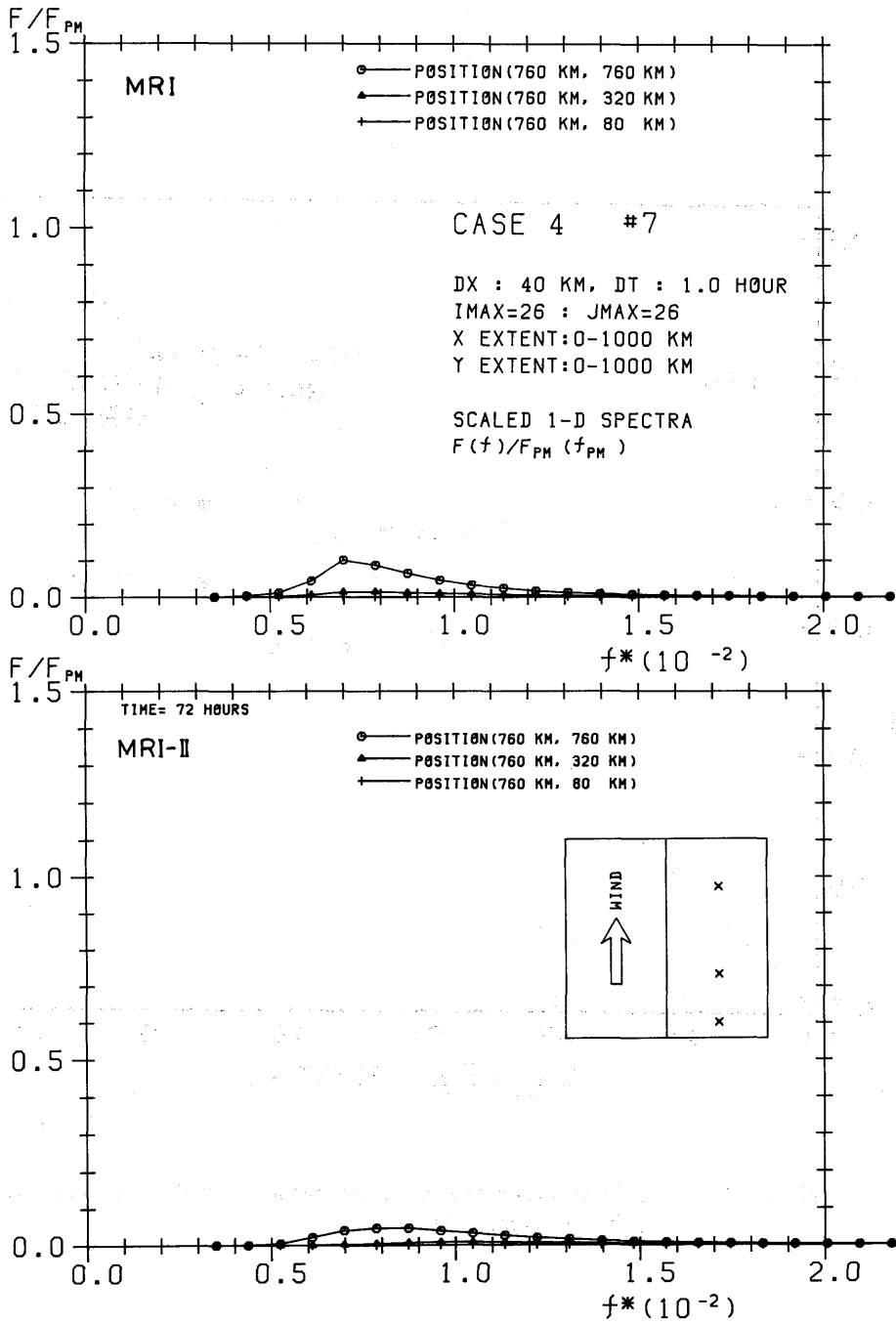
Fig. 65-0-25   scaled 1-D spectrum $F(f)/F(f_{PM})$ for $T = 72$ hrs and point (760, 80), (760,320) and (760,760)
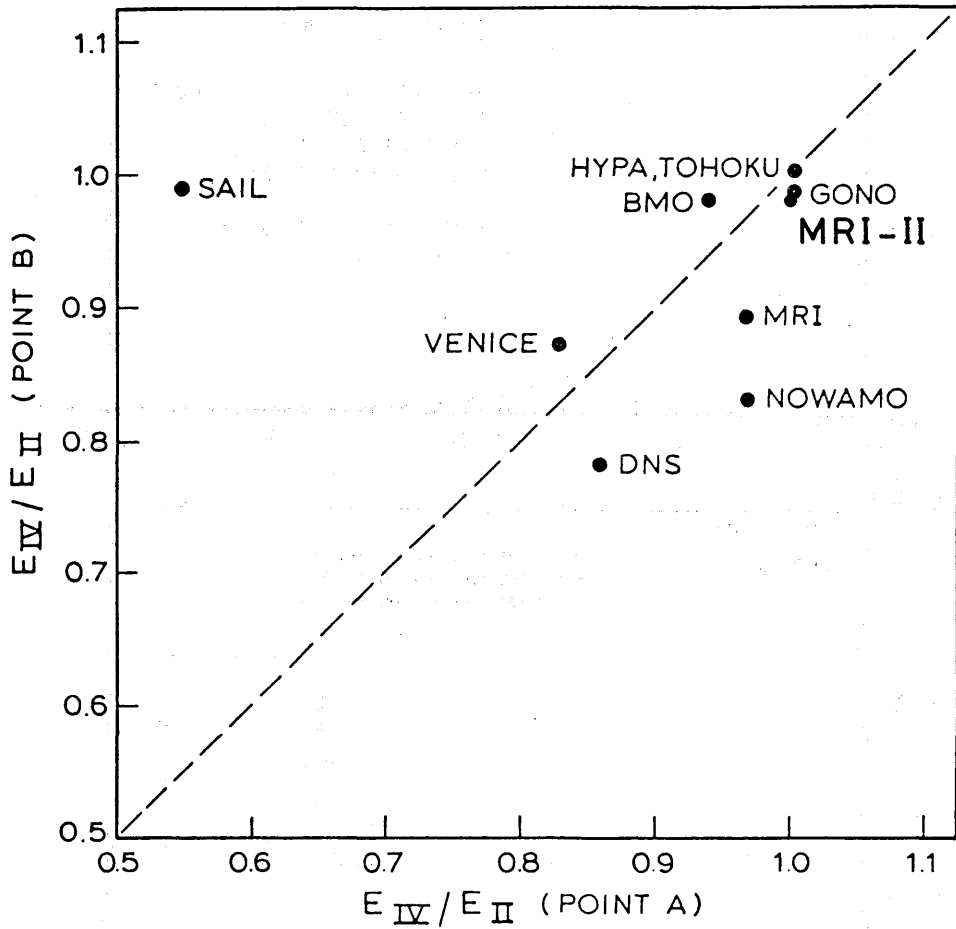
Fig. 66-9.3-0   model locations in the partameter plane spanned by the values of·
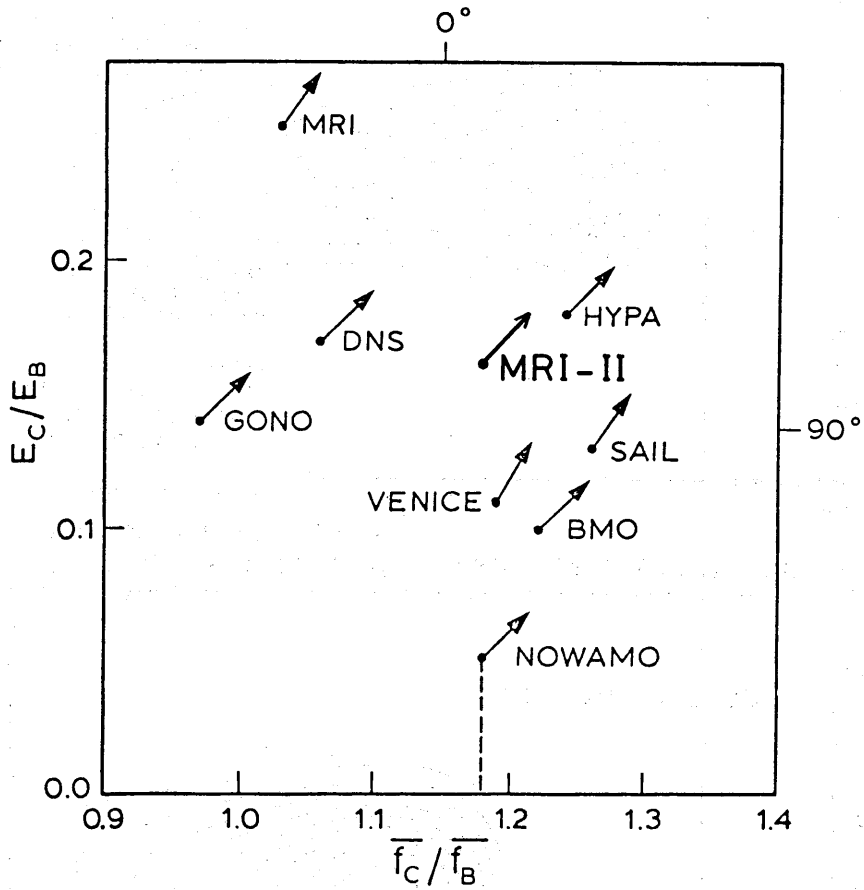(E_{IV}/E_{II}) at points A and B

Fig. 67-9.5-0   model locations in the partameter plane of E_C/E_B vs $\bar{f}_C/\bar{f}_B$, where indices B and C refer to points B and C.