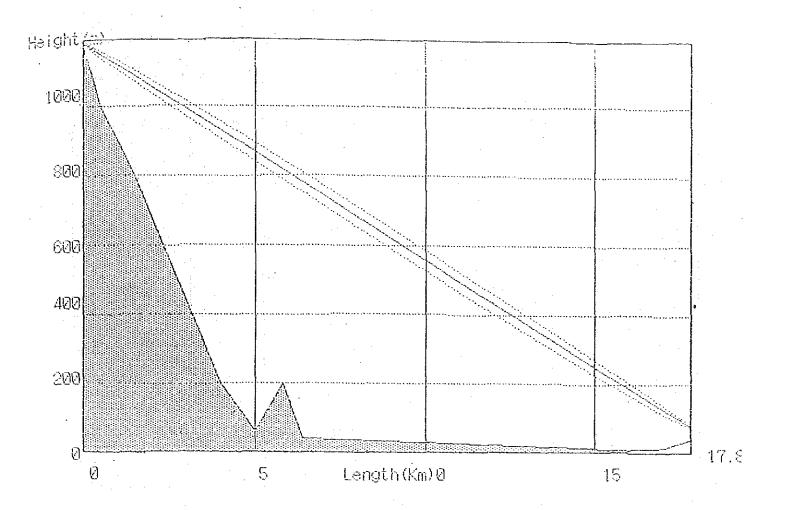
ANNEX 1

RADIO SECTION PROFILE AND CIRCUIT DESIGN

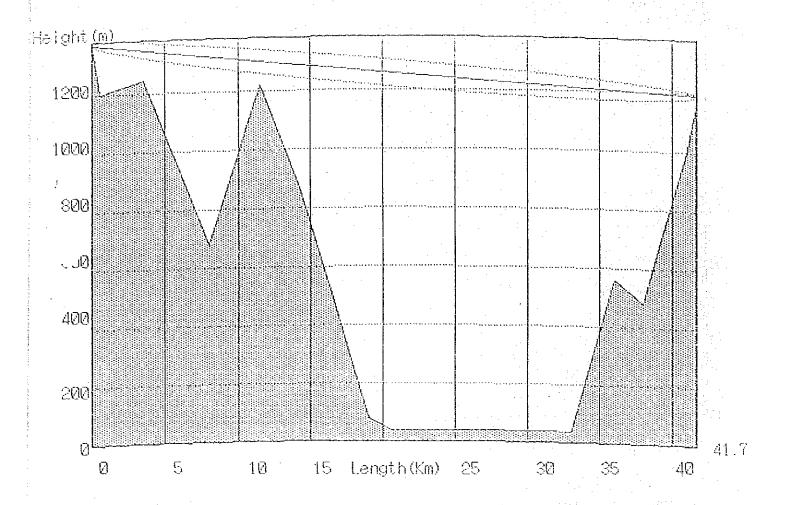
Morob	e Prov	ince		 	1~21
New li	eland	Provi	nce ·	 	22~39
u po Propins			20 E M	Mark Dates	
Wester	n Pro	vince ·		 	$40 \sim 48$

MOROBE PROVINCE

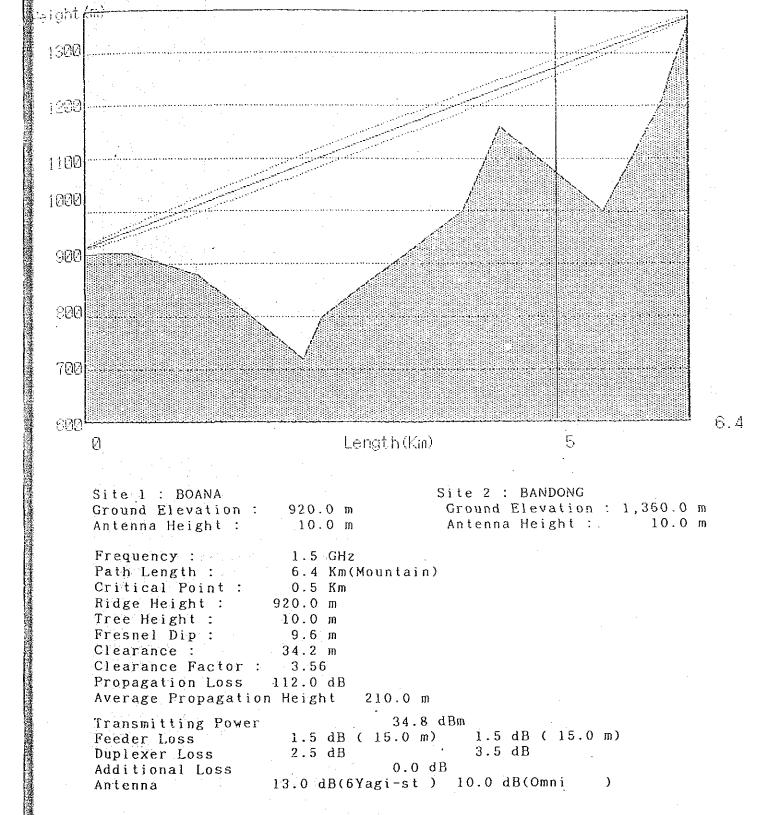
Omsts ~	Lae	(1.5GHZ) 1
Bandong ~	Omsis	(") 2
Boana ~	Bandong	(") 3
Chlvasing ~	Omsis	(") 4
Nambamati ~	Chivasing	(") 5
L18	Wideru	(") 6
Bukaua ~	Wideru	(") 7
Silimana ~	Wideru	(") 8
Pindiu ~	Silimana	(") 9
Zenguru ~	Silimana	(") 1 0
Mindik ~	Zenguru	(") 1.1
Lae	Mt. Mission	(") 1 2
Salamaua ∼	Mt. Mission	(//) 1 3
Ya i wahawa ~	Mt. Mission	(") 1 4
Kajapit ~	Nambamat i	(") 1 5
Vai	Nambamati	(") 1 6
Watarais	Nambama t i	(") 1.7
Pindia H.C.	Silimana	(450MHZ) 1 8
Lengbat1 ~	Zenguru	(") 1 9
Baini	Mt. Mission	(") 2 0
Wanduni ~	Wau	(") 2 1

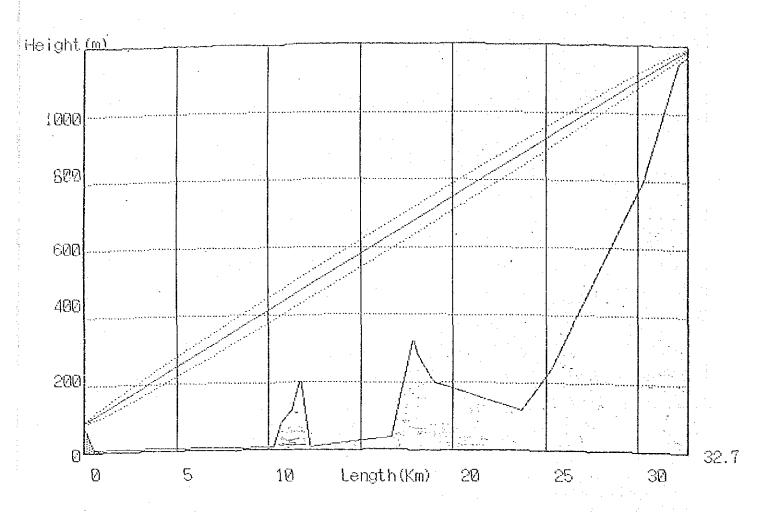


```
Site 1 : OMSIS
                                     Site 2 : LAE
Ground Elevation: 1,171.0 m
                                      Ground Elevation:
Antenna Height:
                      10.0 m
                                      Antenna Height :
                                                          : 37.0 m
Frequency:
                    1.5 GHz
Path Length:
                    17.8 Km(Plane)
Critical Point:
                    17.5 Km
Ridge Height:
                    31.3 m
Tree Height:
                    10.0 m
Fresnel Dip :
                    7.4 m
Clearance:
                    52.8 m
Clearance Factor:
                    7.12
Propagation Loss
                   120.9 dB
Average Propagation Height
                             461.8 m
Transmitting Power
                               34.8 dBm
                                        3.2 dB ( 32.0 m)
Feeder Loss
                    1.5 dB ( 15.0 m)
Duplexer Loss
                    2.5 dB
                                        3.5 dB
Additional Loss
                               -2.4 d3
                  13.0 dB(6Yagi-st) 10.0 dB(Omni
Antenna
```



```
Site 1 : BANDONG
                                     Site 2 : OMSIS
Ground Elevation: 1,360.0 m
                                      Ground Elevation: 1,171.0 m
Antenna Height:
                     10.0 m
                                      Antenna Height:
Frequency:
                     1.5 GHz
                    41.7 Km(Mountain)
Path Length:
                    11.5 Km
Critical Point:
Ridge Height: 1,220.0 m
Tree Height:
                    10.0 m
Fresnel Dip :
                    40.8 m
Clearance:
                    70.2 m
Clearance Factor:
                     1.72
Propagation Loss
                   128.3 dB
Average Propagation Height
                             734.2 m
                                34.8 dBm
Transmitting Power
                     1.5 dB
                            (15.0 m)
Feeder Loss
                                         2.5 dB ( 25.0 m)
                     2.5 dB
Duplexer Loss
                                         3.5 dB
Additional Loss
                                0.0 dB
                   13.0 dB(6Yagi-st)
Antenna
                                       10.0 dB(Omni
```

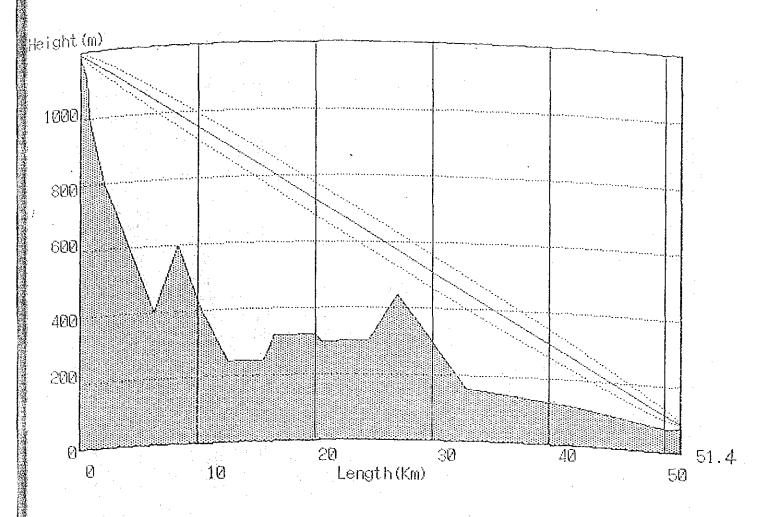




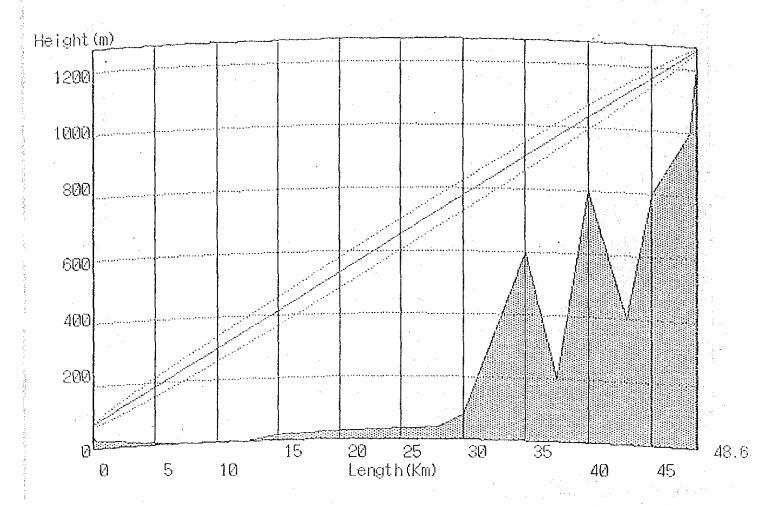
```
Ground Elevation:
                      75.0 m
                                     Ground Elevation: 1,171.0 m
Antenna Height:
                     15.0 m
                                      Antenna Height:
Frequency:
                     1.5 GHz
                    32.7 Km(Plane)
Path Length:
Critical Point:
                    32.2 Km
Ridge Height:
                 1,150.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                     9.9 m
Clearance:
                    13.2 m
Clearance Factor:
                    1.33
Propagation Loss
                   126.2 dB
Average Propagation Height
                              34.8 dBm
Transmitting Power
                     2.0 dB ( 20.0 m)
Feeder Loss
                                         2.5 dB ( 25.0 m)
Duplexer Loss
                     2.5 dB
                                         3.5 dB
                                0.0 dB
Additional Loss
                   13.0 dB(6Yagi-st) 10.0 dB(Omni
Antenna
```

Site 2 : OMSIS

Site 1 : CHIVASING

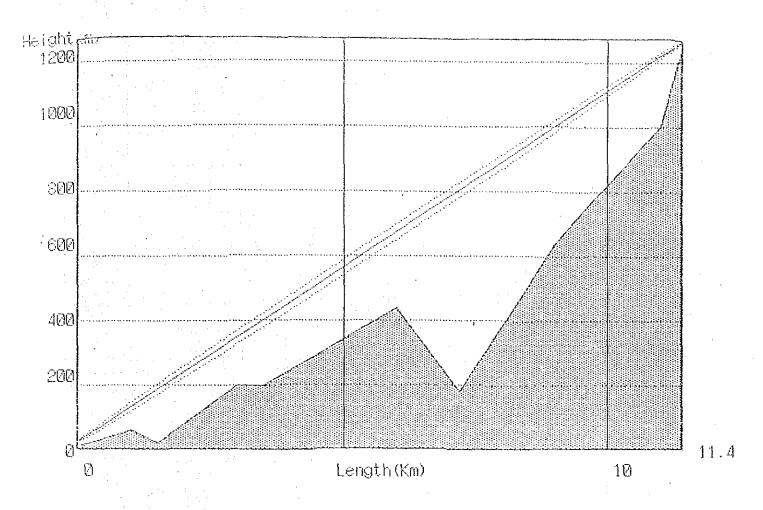


```
Site 1: NAMBAMATI
                                    Site 2 : CHIVASING
Ground Elevation: 1,180.0 m
                                     Ground Elevation:
                  14.0 m
Antenna Height:
                                     Antenna Height:
Frequency:
                    1.5 GHz
Path Length:
                    51.4 Km(Mountain)
Critical Point :
                   51.2 Km
Ridge Height :
                   73.8 m
Tree Height :
                   10.0 m
Fresnel Dip :
                    6.7 m
Clearance:
                   10.4 m
Clearance Factor:
                   1.55
Propagation Loss 130.1 dB
Average Propagation Height
                            314.9 m
Transmitting Power
                               34.8 dBm
Feeder Loss
Duplexer Loss
                    2.8 dB ( 28.0 m)
                                        2.0 dB (20.0 m)
                    2.5 dB
                                        3.5 dB
Additional Loss
                               0.0 dB
Antenna
                  17.0 dB(6Yagi-ro) 10.0 dB(Omni
```

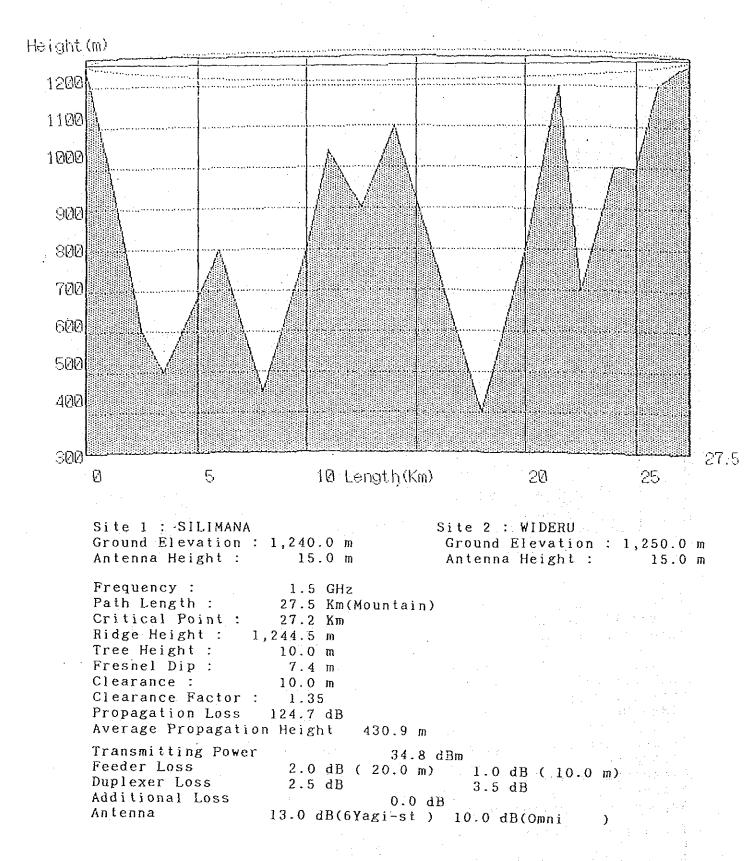


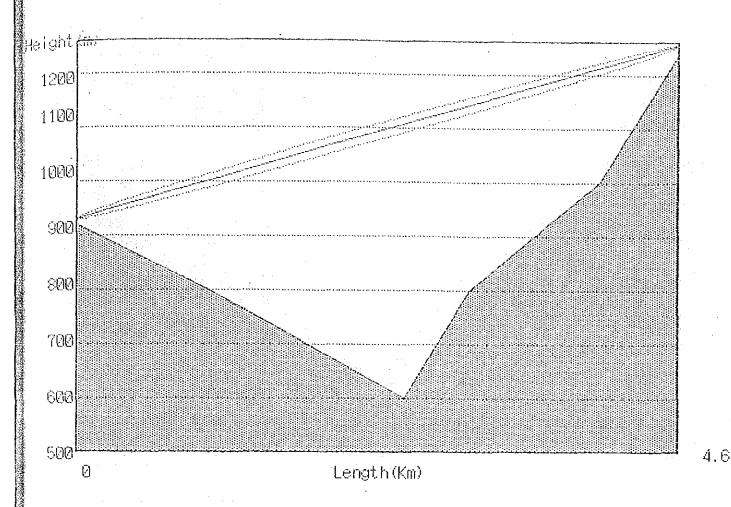
```
Site 1 : LAE
                                     Site 2 : WIDERU
Ground Elevation:
                      40.0 m
                                      Ground Elevation: 1,250.0 m
Antenna Height:
                      37.0 m
                                      Antenna Height:
Frequency:
                     1.5 GHz
Path Length:
                    48.6 Km(Sea)
Critical Point:
                    1.4 Km
Ridge Height:
                    21.3 m
                    10.0 m
Tree Height:
Fresnel Dip:
                    16.3 m
Clearance:
                    75.4 m.
Clearance Factor:
                     4.62
Propagation Loss
                   129.7 dB
Average Propagation Height
                             4,25.8 m
                                34.8 dBm
Transmitting Power
                     3.2 dB ( 32.0 m)
Feeder Loss .
                                         0.5 dB (
                                                    5.0 m)
                     2.5 dB
                                         3.5 dB
Duplexer Loss
Additional Loss
                               -2.4 dB
                                       23.0.dB(Para-1.2)
Antenna
                   10.0 dB(Omni )
```

1.3.0 m

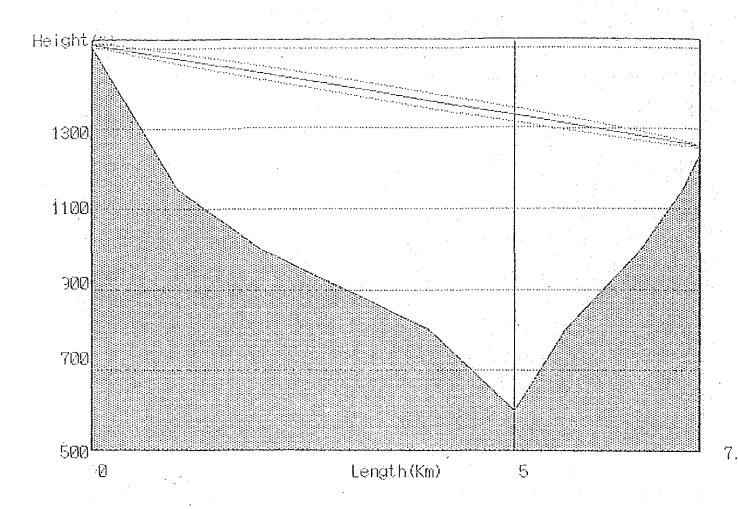


```
Site 1 : BUKAUA
                                      Site 2 : WIDERU
Ground Elevation:
                      10.0 m
                                      Ground Elevation: 1,250.0 m
Antenna Height:
                      15.0 m
                                      Antenna Height:
Frequency:
                     1.5 GHz
Path Length:
                    11.4 Km(Mountain)
Critical Point:
                     1.0 Km
Ridge Height:
                    60.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                    13.5 m
Clearance:
                    63.2 m
Clearance Factor:
                     4.68
Propagation Loss
                   117.1 dB
Average Propagation Height
                              272.7 m
Transmitting Power
                                34.8 dBm
Feeder Loss
                     2.0 dB ( 20.0 m)
                                          1.0 dB ( 10.0 m)
Duplexer Loss
                     2.5 dB
                                          3.5 dB
Additional Loss
                                0.0 dB
Antenna
                   13.0 dB(6Yagi-st) 10.0 dB(Omni
```

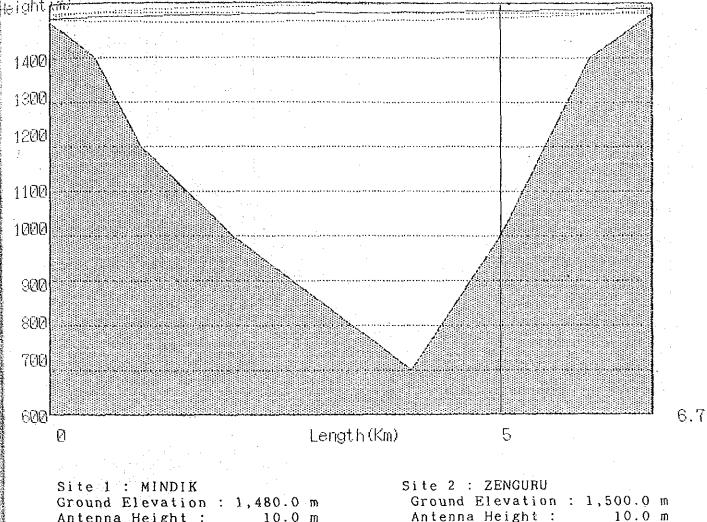




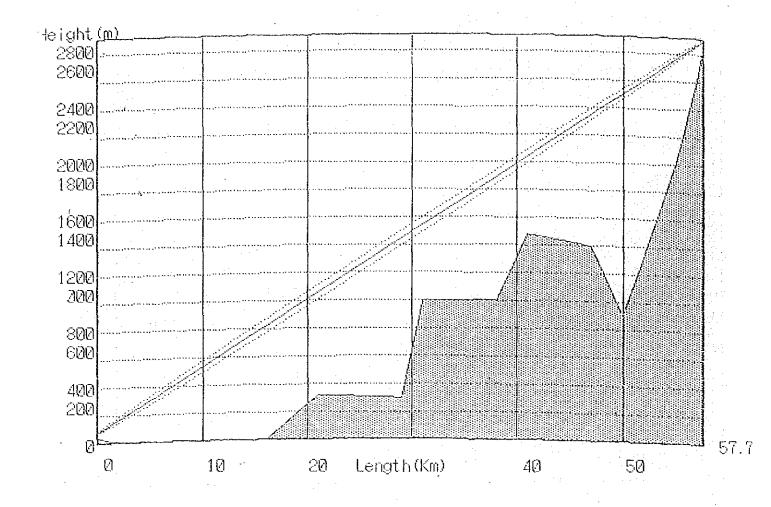
```
Site 1 : PINDIU
                                  Site 2 : SILIMANA
Ground Elevation:
                   920.0 m
                                   Ground Elevation: 1,240.0 m
Antenna Height:
                   10 0 m
                                   Antenna Height: 15.0 m
Frequency:
                   1.5 GHz
Path Length:
                   4.6 Km(Mountain)
Critical Point :
                  4.6 Km
Ridge Height: 1,234.0 m
Tree Height:
                   10.0 m
Fresnel Dip:
                   1.7 m
Clearance:
                   9.9 m
Clearance Factor: 5.75
Propagation Loss
                 109.2 dB
Average Propagation Height
                           289.7 m
Transmitting Power
                              34.8 dBm
Feeder Loss
                    1.5 dB ( 15.0 m)
                                       2.0 dB ( 20.0 m)
Duplexer Loss
                 2.5 dB
                                       3.5 dB
Additional Loss
                              0.0 dB
Antenna
             13.0 dB(6Yagi-st ) 10.0 dB(Omni
```



```
Site 1 : ZENGURU
                                     Site 2 : SILIMANA
Ground Elevation: 1,500.0 m
                                      Ground Elevation: 1,240.0 m
Antenna Height:
                     10.0 m
                                      Antenna Height: 15.0 m
Frequency:
                     1.5 GHz
Path Length:
                     7.2 Km(Mountain)
Critical Point:
                     7.2 Km
                 1,231.0 m
Ridge Height:
Tree Height:
                    10.0 m
Fresnel Dip :
                     2.0 m
Clearance:
                    14.7 m
Clearance Factor:
                     7.36
Propagation Loss
                   113.1 dB
Average Propagation Height
                             440.8 m
Transmitting Power
                                34.8 dBm
Feeder Loss
                     1.5 dB ( 15.0 m)
                                        2.0 dB ( 20.0 m)
Duplexer Loss
                     2.5 dB
                                        3.5 dB
Additional Loss
                               0.0 dB
Antenna
                   13.0 dB(6Yagi-st ) 10.0 dB(Omni
```



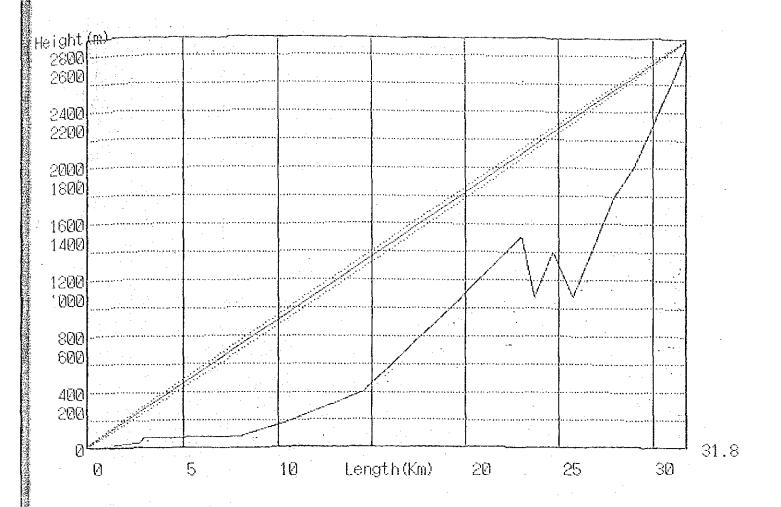
```
Antenna Height:
                      10.0 m
Frequency:
                     1.5 GHz
Path Length:
                     6.7 Km(Mountain)
Critical Point:
                     6.7 Km
Ridge Height:
                 1,495.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                     2.6 m
Clearance:
                   4.9 m
Clearance Factor:
                     1.85
Propagation Loss
                   112.4 dB
Average Propagation Height
                            475.0 m
Transmitting Power
                               34.8 dBm
Feeder Loss
Duplexer Loss
                     1.5 dB ( 15.0 m)
                                     1.5 dB ( 15.0 m)
                2.5 dB
                                        3.5 dB
Additional Loss
                               0.0 dB
Antenna
                   13.0 dB(6Yagi-st) 10.0 dB(Omni
```



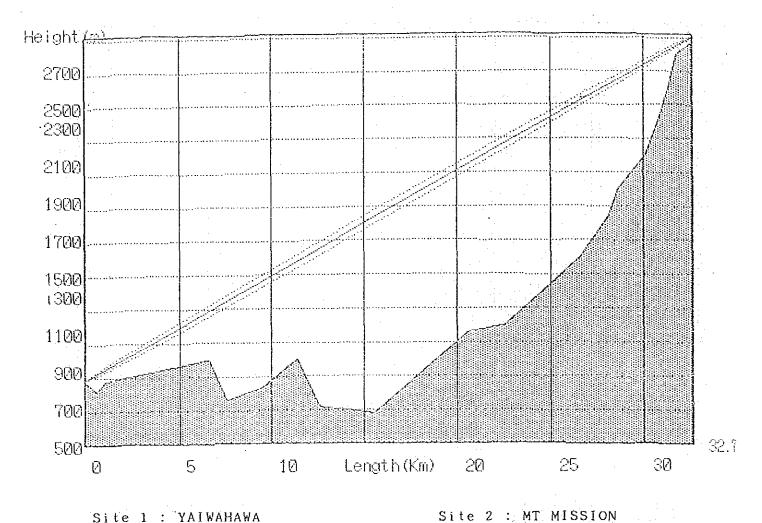
```
Ground Elevation:
                       40.0 m
                                       Ground Elevation:
Antenna Height:
                      37.0 m
                                       Antenna Height :
Frequency:
                     1.5 GHz
Path Length:
                    57.7 Km(Mountain)
Critical Point:
                     1.0 Km
Ridge Height:
                    0.00
Tree Height:
                    10.0 m
Fresnel Dip:
                    14.0 m
Clearance:
                    92.6 m
Clearance Factor:
                     6.61
Propagation Loss
                   131.1 dB
Average Propagation Height
                             752.7 m
Transmitting Power
                                 34.8 dBm
Feeder Loss
                     3.2 dB ( 32.0 m)
                                          3.5 dB ( 35.0 m)
Duplexer Loss
                     2.5 dB
                                          3.5 dB
Additional Loss
                                -5.0 dB
Antenna
                   10.0 dB(Omni
                                        17.0 dB(6Yagi-ro)
```

Site 2: MT MISSION

Site 1 : LAE



```
Site 2: MT MISSION
Site 1 : SALAMAUA
                        5.0 m
                                       Ground Elevation: 2,877.0 m
Ground Elevation:
Antenna Height:
                       10.0 m
                                       Antenna Height:
Frequency:
                      1.5 GHz
Path Length :
Critical Point :
                     31.8 Km(Mountain)
                      0.5 Km
Ridge Height:
                      5.0 m
Tree Height:
                     10.0 m
Fresnel Dip :
                      9.9 m
Clearance:
                     44.6 m
Clearance Factor:
                      4.50
Propagation Loss
                    126.0 dB
Average Propagation Height
                              667.4 m
Transmitting Power
                                 34.8 dBm
Feeder Loss
                      1.5 dB ( 15.0 m)
                                          4.2 dB ( 42.0 m)
Duplexer Loss
                      2.5 dB
                                          3.5 dB
Additional Loss
                                 0.0 dB
Antenna
                    13.0 dB(6Yagi-st ) 10.0 dB(Omni
```



```
Ground Elevation:
Ground Elevation:
                      880.0 m
                       10.0 m
                                        Antenna Height:
Antenna Height:
                      1.5 GHz
Frequency:
Path Length:
                     32.7 Km(Mountain)
Critical Point:
                     31.8 Km
Ridge Height:
                  2,800 0 m
Tree Height:
                     10.0 m
Fresnel Dip
                     13.2 m
Clearance:
                     42.7 m
Clearance Factor
                      3.23
Propagation Loss
                    126.2 dB
Average Propagation Height
                              699.7 m
Transmitting Power
                                 34.8 dBm
Feeder Loss
                      1.5 dB ( 15.0 m)
                                          4.2 dB
Duplexer Loss
                      2.5 dB
                                           3.5 dB
Additional Loss
                                 0.0 dB
                    13.0 \, dB(6Yagi-st)
Antenna
                                        10.0 dB(Omni
                                                         )
```

```
Height (m)
 1100
 1000
  900
  800
  700
  600
  500
  400
  300
                                                                               4.2
                                   Length (Km)
      0
      Site 1: KAIAPIT
                                              Site 2 : NAMBAMATI
                             300.0 m
                                               Ground Elevation: 1,180.0 m
      Ground Elevation:
                              10.0 \ \text{m}
                                               Antenna Height:
       Antenna Height:
       Frequency:
                             1.5 GHz
       Path Length:
                             4.2 Km(Mountain)
      Critical Point:
                             0.8 Km
      Ridge Height:
                           400.0 m
      Tree Height:
                            10.0 m
      Fresnel Dip:
                            11.4 m
      Clearance:
                            69.9 m
      Clearance Factor
                             6.15
      Propagation Loss
                           108.4 dB
      Average Propagation Height
                                     157.0 m
      Transmitting Power
```

1.5 dB (15.0 m)

2.5 dB

Feeder Loss

Antenna

Duplexer Loss

Additional Loss

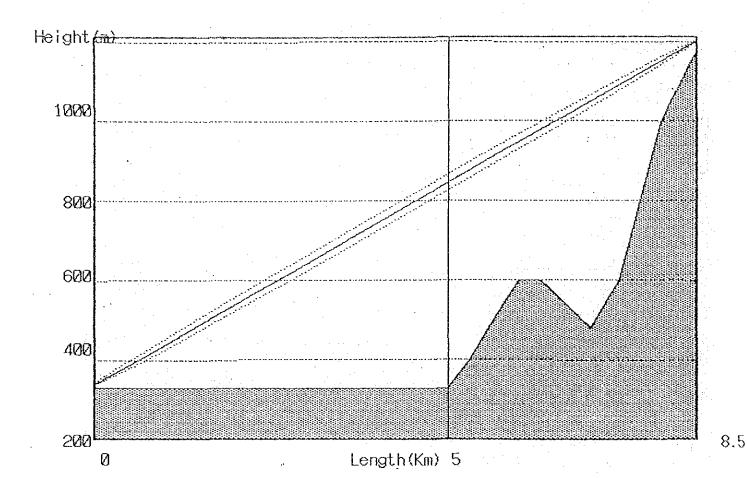
34.8 dBm

0.0 dB

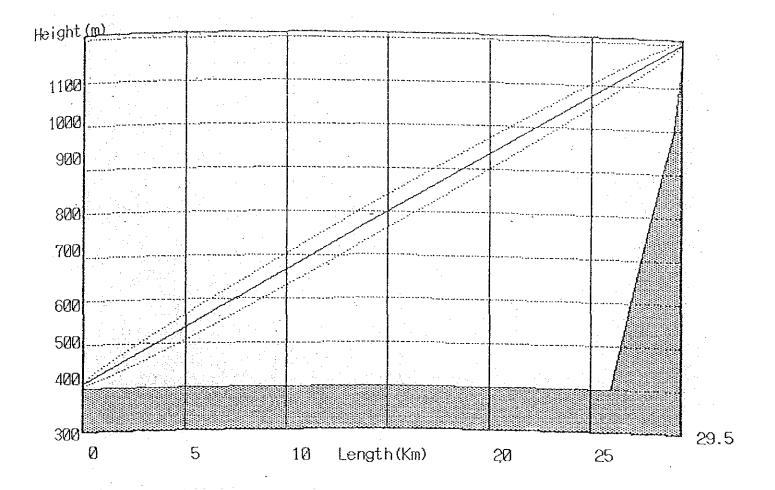
13.0 dB(6Yagi-st) 10.0 dB(Omni

3.7 dB (37.0 m)

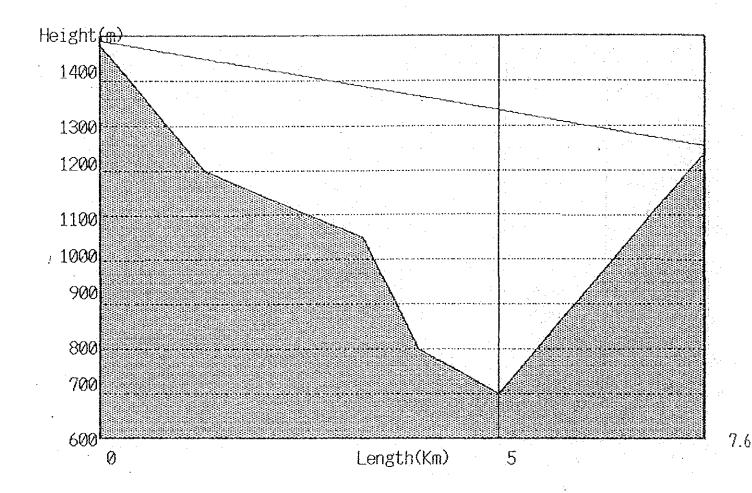
3.5 dB



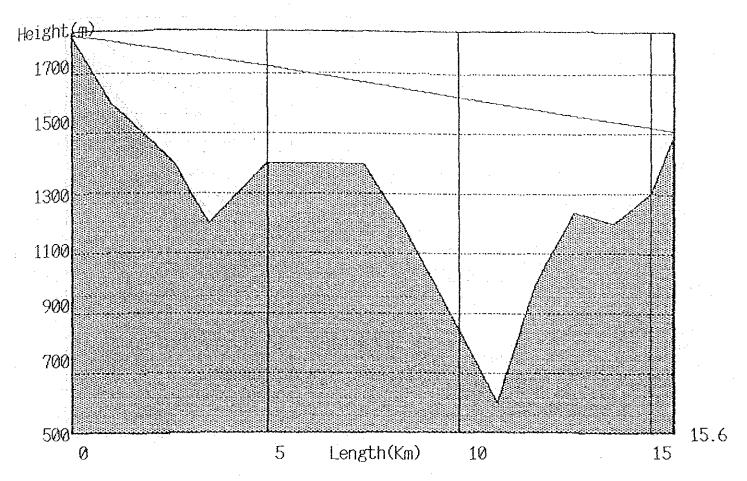
```
Site 1: UMI
                                      Site 2 : NAMBAMATI
Ground Elevation:
                      330.0 m
                                       Ground Elevation: 1,180.0 m
Antenna Height:
                      10.0 m
                                       Antenna Height:
Frequency:
                      1.5 GHz
Path Length:
                      8.5 Km(Mountain)
Critical Point:
                     0.5 Km
Ridge Height:
                    330.0 m
Tree Height:
                     10.0 m
Fresnel Dip:
                      9.7 m
Clearance:
                     50.5 m
Clearance Factor:
                      5.21
Propagation Loss
                    114.5 dB
Average Propagation Height
                              329.9 m
Transmitting Power
                                 34.8 dBm
Feeder Loss
                      1.5 dB ( 15.0 m)
                                          3.7 dB ( 37.0
Duplexer Loss
                     2.5 dB
                                          3.5 dB
Additional Loss
                                 8b 0.0
Antenna
                   13.0 dB(6Yagi-st)
                                       10.0 dB(Omni
```



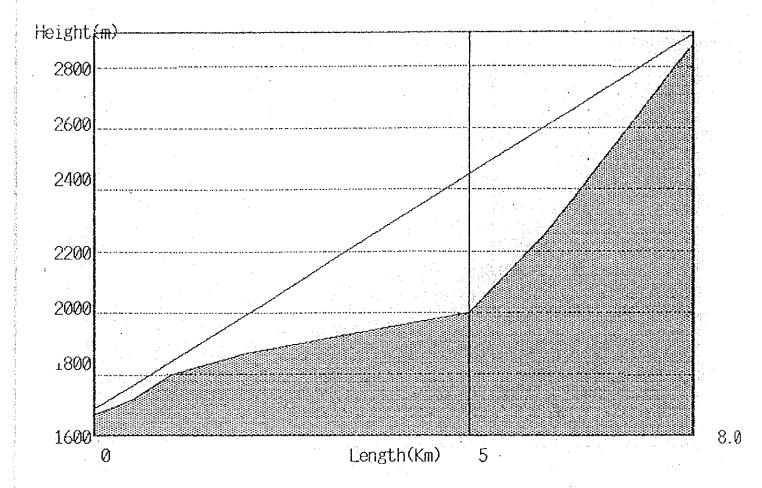
```
Site 1: WATARAIS Ground Elevation:
                                       Site 2 : NAMBAMATI
                      400.0 m
                                        Ground Elevation: 1,180.0 m
Antenna Height:
                       10.0 m
                                        Antenna Height:
                                                               23.0 m
Frequency:
                      1.5 GHz
Path Length:
                     29.5 Km(Mountain)
Critical Point:
                     .0.5 Km
Ridge Height:
                    400.0 m
Tree Height:
                     10.0 m
Fresnel Dip:
                      9.9 m
Clearance:
                     12.6 m
Clearance Factor:
                      1.27
Propagation Loss
                    125.3 dB
Average Propagation Height
                              363.8 m
Transmitting Power
                                 34.8 dBm
Feeder Loss
                      1.5 dB ( 15.0 m)
                                           3.7 dB ( 37.0 m)
Duplexer Loss
                                           3.5 dB
                      2.5 dB
Additional Loss
                                 0.0 dB
Antenna
                    13.0 dB(6Yagi-st)
                                       10.0 dB(Omni
```



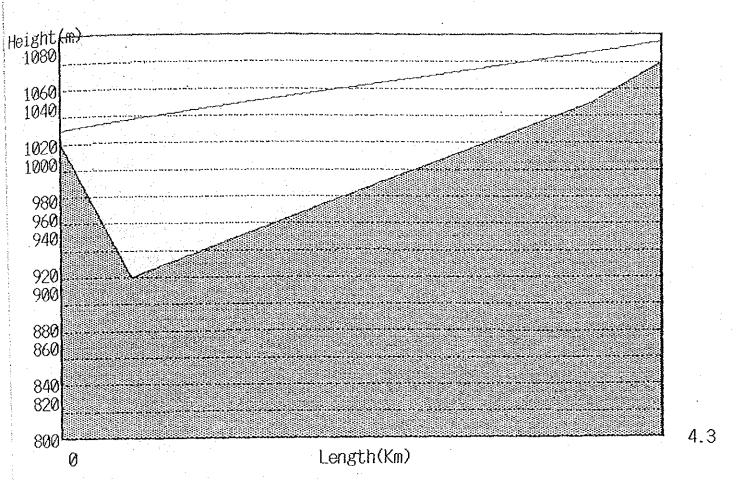
```
Site 1: PIND H.C
                                      Site 2 : SILIMANA
Ground Elevation: 1,480.0 m
                                       Ground Elevation: 1,240.0 m
Antenna Height:
                      10.0 m
                                       Antenna Height:
Frequency:
                   450.0 MHz
Path Length:
                     7.6 Km(Inland)
Critical Point:
                     7.5 Km
Ridge Height:
                 1,213.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                     9.2 m
Clearance:
                    36.0 m
Clearance Factor:
                     3.90
Path Loss
                    91.8 dB
Average Propagation Height
                             365.0 m
Transmitting Power
                                 30.0 dBm
Feeder Loss
                     1.8 dB ( 15.0 m)
                                          2.4 dB ( 20.0 m)
Duplexer Loss
                     2.5 dB
                                          2.5 dB
Additional Loss
                                 0.0 dB
Antenna
                   12.0 dB(YAGI-8 ) 12.0 dB(YAGI-8
```



```
Site 2 : ZENGURU
Site 1 : LENGBATI
                                       Ground Elevation: 1,500.0 m
Ground Elevation: 1,820.0 m
                                       Antenna Height :
Antenna Height:
                       10.0 \, \mathrm{m}
                                                             10.0 m
Frequency:
                    450 0 MHz
Path Length:
                    15.6 Km(Inland)
Critical Point:
                     15.6 Km
Ridge Height:
                  1,500.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                      0.1 \, \text{m}
Clearance:
                      0.0 m
Clearance Factor:
                      0.03
Path Loss
                     93.0 dB
Average Propagation Height
                              435.9 m
Transmitting Power
                                 30.0 dBm
Feeder Loss
                      1.8 dB ( 15.0 m)
                                           1.8 dB ( 15.0 m)
Duplexer Loss
                                           2.5 dB
                      2.5 dB
Additional Loss
                                 0.0 dB
Antenna
                    12.0 dB(YAGI-8 ) 12.0 dB(YAGI-8
```



```
Site 1: BAINI
                                      Site 2: MT_MISSION
Ground Elevation: 1,670.0 m
                                       Ground Elevation: 2,877.0 m
                       20.0 m
Antenna Height:
                                       Antenna Height:
                    450.0 MHz
Frequency::
Path Length:
                      8.0 Km(Inland)
Critical Point:
                      1.0 Km
Ridge Height:
                  1,800.0 m
Tree Height:
                     10.0 m
Fresnel Dip:
                     24.2 m
Clearance:
                     31.7 m
Clearance Factor:
                      1.31
Path Loss
                     92.2 dB
Average Propagation Height
                              247.3 m
Transmitting Power.
                                 30.0 dBm
Feeder Loss
                      3.0 dB (25.0 m)
                                           4.7 dB ( 39.0 m)
Duplexer Loss
                      2.5 dB
                                           2.5 dB
Additional Loss
                                 0.0 dB
Antenna
                    12.0 \text{ dB}(YAGI-8) 12.0 \text{ dB}(YAGI-8)
```



```
Site 2: WAU
Site 1 : WANDUMI
                                       Ground Elevation: 1,080.0 m
Ground Elevation: 1,020.0 m
                                                             15.0 m
                                       Antenna Height:
                      10.0 m
Antenna Height:
                   450.0 MH2
Frequency:
                     4.3 Km(Inland)
Path Length :
Critical Point:
                     4.2 Km
               1,074.0 m
Ridge Height:
Tree Height:
                    10.0 m
Fresnel Dip:
                     8.1 m
Clearance:
                     9.5 m
                     1.17
Clearance Factor
                    86.8 dB
Path Loss
                              67.8 m
Average Propagation Height
Transmitting Power
                                 30.0 dBm
Feeder Loss
                     1.8 dB ( 15.0 m)
                                          3.2 dB (27.0 m)
Duplexer Loss
                     2.5 dB
                                          2.5 dB
Additional
                                 0.0 dB
            Loss
```

12.0 dB(YAGI-8

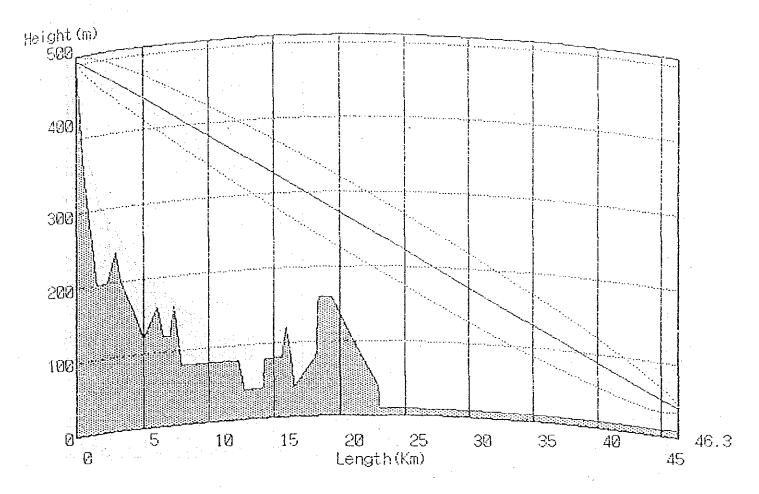
Antenna

)

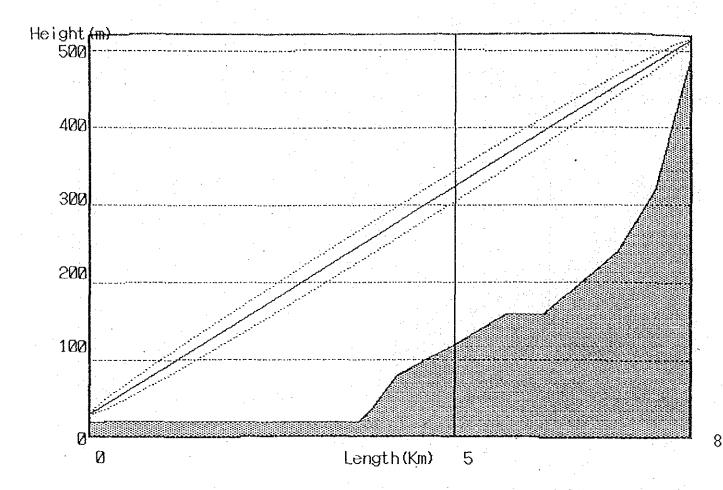
12.0 dB(YAGI-8

NEW IRELAND PROVINCE

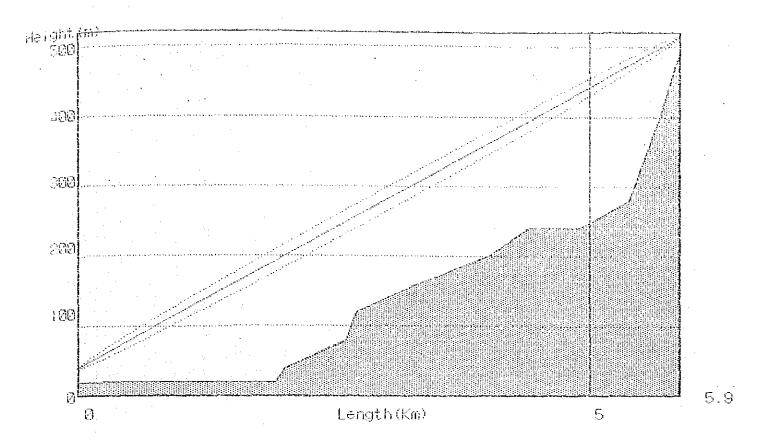
Mt Kiding ~	Kavleng	(1.5GHZ)	2 2
Mangai	Mt. Kiding	(")	2 3
Lemakot	Mt.Kiding	(· / //) ·	2 4
Lakuramau ~	Mt. Kiding	(")	2 5
Madina ~	Mt. Kiding	() / () /	2 6
Mangop	Mt. Kiding	(")	2 7
Pabaul ~	Tomavatur	(")	2 8
Duke of York ~	Tomavatur	(")	2 9
Konokalang ~	Duke of York	(")	3 0
Hursi ~	Konokalang	(")	3 1
Hilalon ~	Huris	(")	3 2
lipek ∼	Huris	.(#)	3 3
Hipagat ~	Huris	(")	3 4
Palipal ~	Duke of York	(450MHZ)	3 5
Taskul	Kavieng	(")	3 6
Kabanut ~	Tomavatār	(150MHZ)	3 7
Kabahon ~	"	(")	3 8
Kait	"	()	3 9



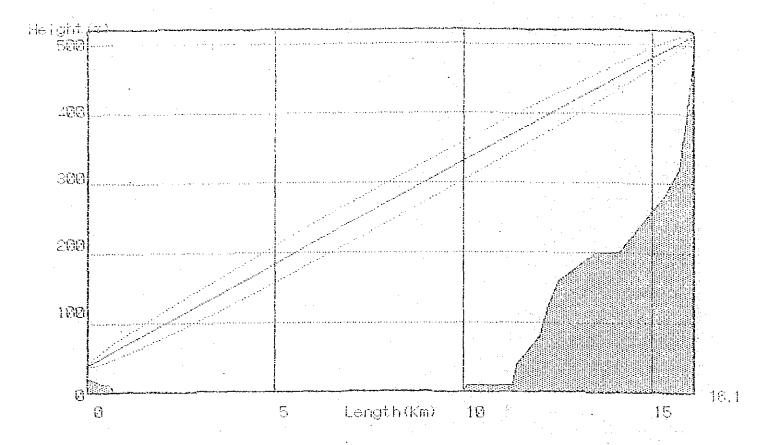
```
Site 1: MT KIDING
                                      Site 2 : KAVLENG
                                      Ground Elevation:
Ground Elevation:
                     49,5, 0 m
                                                             10.0 m
Antenna Height:
                     . 10.0 m
                                      Antenna Height:
                                                             30.0 m
                     1.5 GHz
Frequency:
                     46.3 Km(Sea)
Path Length :
                     44.4 Km
Critical Point:
                     10.0 m
Ridge Height:
                     10.0 m
Tree Height:
Fresnel Dip :
                     19.2 m
                     34.3 m
Clearance :
Clearance Factor :
                     1.79
                    129.2 dB
Propagation Loss
Average Propagation Height
                              187.2 m
                                 34.8 dBm
Transmitting Power
                                          5.0 dB (50.0 m)
                     2.5 dB ( 25.0 m)
Feeder Loss
                                          3.5 dB
                     2.5 dB
Duplexer Loss
                                 0.0 dB
Additional Loss
                   17.0 dB(6Yagi-ro) 23.0 dB(Para-1.2)
Antenna
```



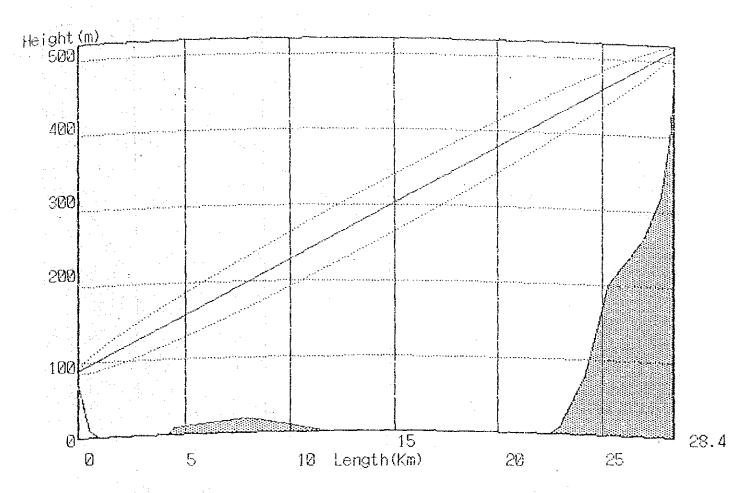
```
Site 1 : MANGAI
                                     Site 2: MT KIDING
Ground Elevation:
                      20.0 m
                                      Ground Elevation:
                                                            495.0 в
Antenna Height:
                      10.0 m
                                      Antenna Height:
Frequency:
                     1.5 GHz
Path Length:
                     8.2 Km(Sea)
Critical Point:
                     0.7 Km
Ridge Height:
                    20.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                    11.3 m
Clearance:
                    41.1 m
Clearance Factor:
                     3.63
                   114.2 dB
Propagation Loss
Average Propagation Height
                             165.2 m
Transmitting Power
                                34.8 dBm
Feeder Loss
                     1.5 dB
                            (15.0 m)
                                                 (35.0 m)
                                         3.5 dB
Duplexer Loss
                     2.5 dB
                                         3.5 dB
Additional Loss
                                0.0 dB
Antenna
                   13.0 dB(6Yagi-st) 10.0 dB(0mni
```



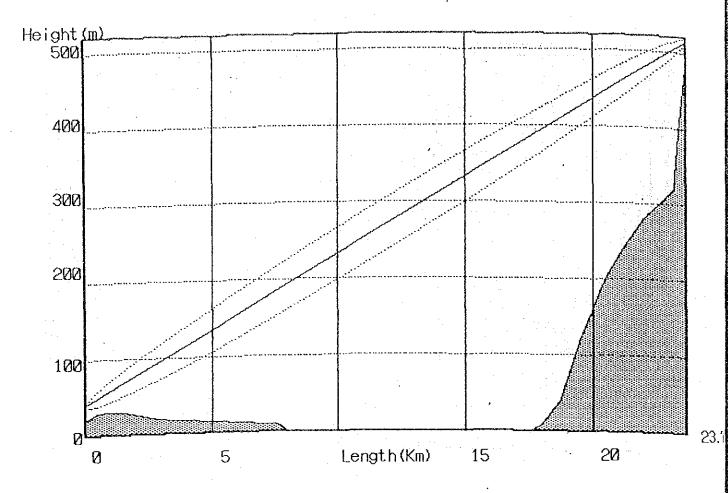
```
Site 1 : LEMAKOT
                                      Site 2 : Mt.KIDING
                       20.0 \, m
                                       Ground Elevation:
                                                             495.0 m
Ground Elevation :
                       20.0 m
                                                             20.0 m
Antenna Height:
                                       Antenna Height :
Frequency:
                      1.5 GHz
Path Length:
                      5.9 Km(Sea)
Critical Point:
                      0.4 Km
Ridge Height:
                     20.0 m
                     10.0 m
Tree Height:
Fresnel Dip :
                      8.6 m
                     42.1 m
Clearance:
                      4.87
Clearance Factor:
Propagation Loss
                    111.3 dB
                              151.5 m
Average Propagation Height
                                 34.8 dBm
Transmitting Power
                                          3.5 dB ( 35.0 m)
                     2.5 dB ( 25.0 m)
Feeder Loss
                                          3.5 dB
Duplexer Loss
                     2.5 dB
                                 0.0 dB
Additional Loss
                                        10.0 dB(Omni
                   13.0 dB(6Yagi-st)
Antenna
```



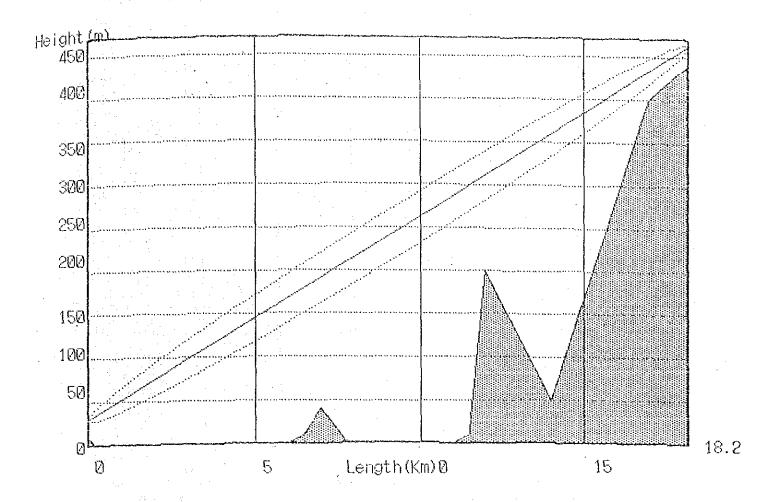
```
Site 1 : LAKURAMAU
                                       Site 2 : Mt.KIDING
Ground Elevation :
                       20.0 m
                                        Ground Elevation:
                                                              495.0 m
Antenna Height:
                       20.0 \, \text{m}
                                        Antenna Height:
                                                               20.0 m
                      1.5 GHz
Frequency:
                     16.1 Km(Sea)
Path Length:
Critical Point :
                      0.6 Km
Ridge Height:
                     10.0 m
Tree Height:
                     10.0 m
                     10.7 m
Fresnel Dip :
                     37.2 m
Clearance :
Clearance Factor:
                      3.46
                    120.1 dB
Propagation Loss
                               214.6 m
Average Propagation Height
                                  34.8 dBm
 Transmitting Power
                                           3.5 dB ( 35.0
                      2.5 dB
                              ( 25.0 m)
 Feeder Loss
                                           3.5 dB
 Duplexer Loss
                      2.5 dB
 Additional Loss
                                  0.0 dB
                    13.0 dB(6Yagi-st)
                                        10.0 dB(Omni
 Antenna
```



```
Site 2 : MT.KIDING
Site 1 : MADINA
Ground Elevation:
                                       Ground Elevation:
                                                            495.0 m
                       70.0 m
                                                            20.0 m
                                       Antenna Height:
Antenna Height:
                       20.0 m
 Frequency:
                      1.5 GHz
 Path Length:
                     28.4 Km(Sea)
 Critical Point:
                      4.9 Km
 Ridge Height:
                     11.0 m
 Tree Height:
                     10.0 m
 Fresnel Dip :
                     28.4 m
Clearance:
                    134.9 m
 Clearance Factor:
                      4.76
 Propagation Loss
                    125.0 dB
 Average Propagation Height
                              256.4 m
                              34.8 dBm
 Transmitting Power
                                          3.5 dB ( 35.0 m)
                      2.5 dB ( 25.0 m)
 Feeder Loss
                                          3.5 dB
 Duplexer Loss
                      2.5 dB
 Additional Loss
                                 0.0 dB
                    17.0 dB(6Yagi-ro ) 10.0 dB(Omni
 Antenna
```



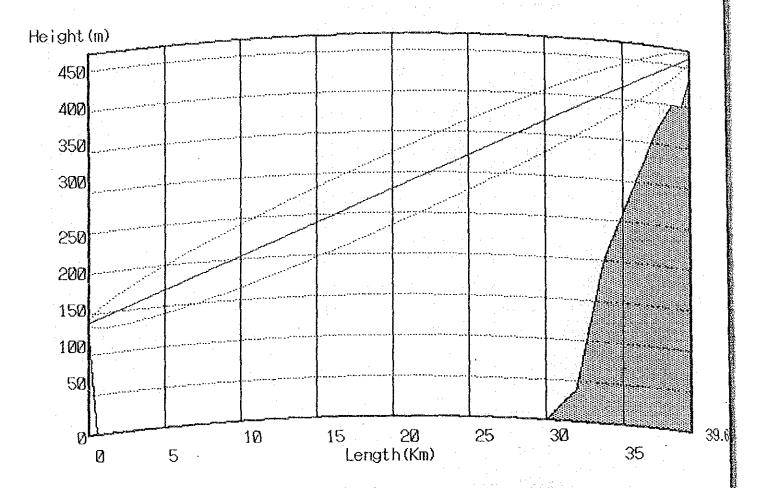
```
Site 1 : MANGOP
                                     Site 2: MT KIDING
Ground Elevation:
                      20.0 m
                                      Ground Elevation:
                                      Antenna Height:
                      20.0 m
Antenna Height:
                    1.5 GHz
Frequency:
                    23.7 Km(Sea)
Path Length:
Critical Point:
                     0.5 Km
                    30.0 m
Ridge Height:
                    10.0 m
Tree Height:
                     9.9 m
Fresnel Dip:
Clearance:
                     9.3 m
Clearance Factor:
                     0.94
Propagation Loss
                   123.4 dB
                             222.8 m
Average Propagation Height
Transmitting Power
                                34.8 dBm
Feeder Loss
                    2.5 dB ( 25.0 m)
                                         3.5 dB (35.0 m)
Duplexer Loss
                    2.5 dB
                                         3.5 dB
Additional Loss
                                0.0 dB
Antenna
                   13.0 dB(6Yagi-st) 10.0 dB(Omni
```



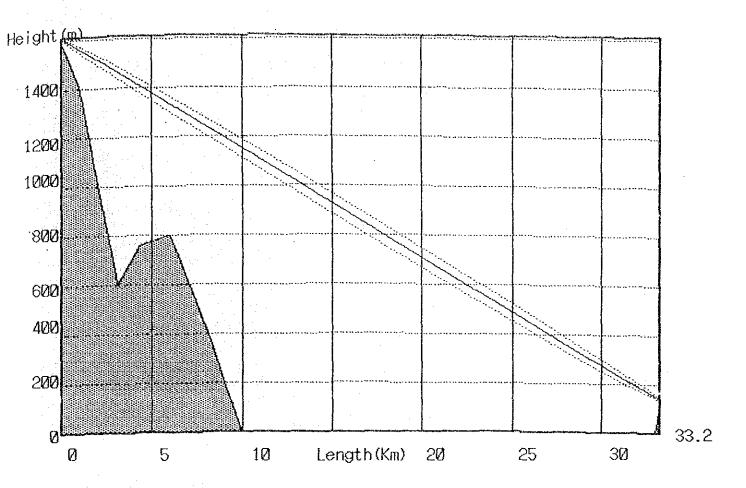
```
Site 1: RABAUL
                                     Site 2 : TOMAVATUR
                                                          440.0 m
                                     Ground Elevation:
Ground Elevation:
                     10.0 m
                      20.0 m
Antenna Height:
                                      Antenna Height:
                                                           22.0 m
Frequency:
                     1.5 GHz
Path Length:
                    18.2 Km(Sea)
Critical Point:
                    17.0 Km
                   400.0 m
Ridge Height:
                    10.0 m
Tree Height:
                    15.0 m
Fresnel Dip:
Clearance:
                    22.3 m
Clearance Factor:
                     1.49
Propagation Loss
                   121.1 dB
Average Propagation Height
                             157.9 m
Transmitting Power
                              34.8 dBm
                     5.0 dB ( 50.0 m)
Feeder Loss
                                         3.7 dB ( 37.0 m)
                                         3.5 dB
Duplexer Loss
                     2.5 dB
Additional Loss
                                0.0 dB
```

10.0 dB(Omni) 13.0 dB(6Yagi-st)

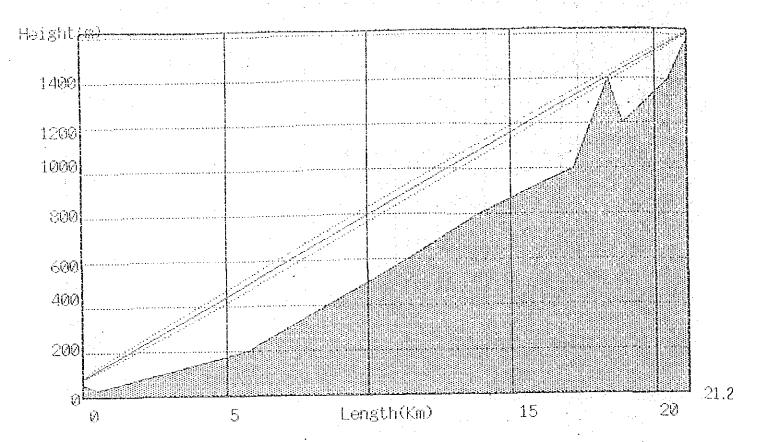
Antenna



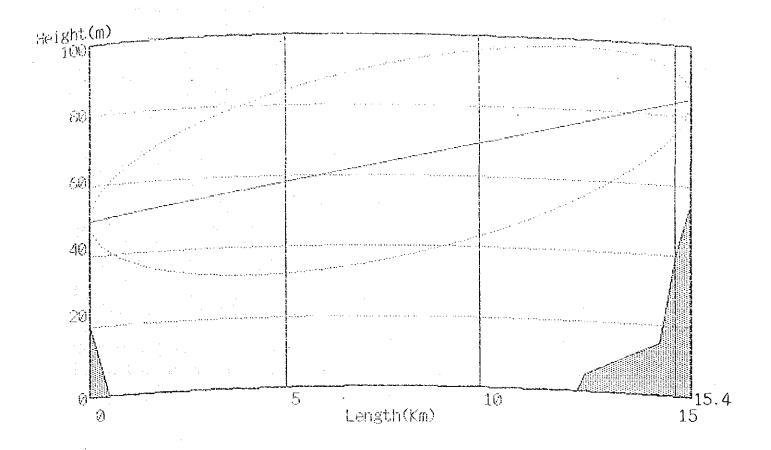
```
Site 2: TOMAVATUR
Site 1: DUKE OF YORK
Ground Elevation: 120.0 m
                                      Ground Elevation: 440.0 m
                                      Antenna Height:
                      20.0 m
Antenna Height:
Frequency:
                    1.5 GHz
Path Length:
                    39.6 Km(Sea)
Critical Point:
                    38.3 Km
Ridge Height:
                   400.0 m
Tree Height:
                    10.0 m
                    15.9 m
Fresnel Dip:
                    38.5 m
Clearance:
                     2.43
Clearance Factor:
Propagation Loss
                   127.9 dB
Average Propagation Height
                             233.0 m
Transmitting Power
                               34.8 dBm
Feeder Loss
                    3.5 dB ( 35.0 m)
                                         3.5 dB ( 35.0 m)
Duplexer Loss
                    2.5 dB
                                         3.5 dB
Additional Loss
                               0.0 dB
Antenna
                  26.0 dB(Paral.8 )
                                       10.0 dB(Omni
```



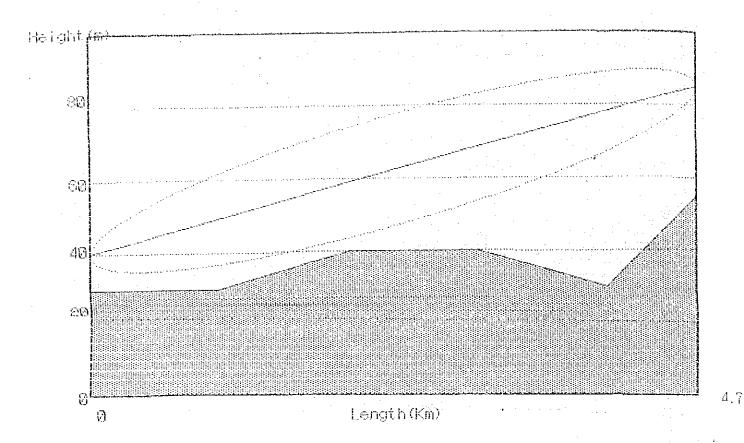
```
Site 1 : KONOKALANG
Ground Elevation : 1,590.5 m
                                       Site 2 : DUKE OF YOKE Ground Elevation :
                                                              120.0 m
                                                               20.0 m
                                        Antenna Height:
Antenna Height:
Frequency:
                   1.5 GHz
Path Length:
                     33.2 Km(Sea)
                     33.2 Km
Critical Point:
Ridge Height:
                    110.0 m
Tree Height:
                     10.0 m
Fresnel Dip:
                     2.0 m
Clearance :
                     20.9 m
Clearance Factor:
                     10.43
                    126.3 dB
Propagation Loss
Average Propagation Height
                              644.9 m
Transmitting Power
                                 34.8 dBm
Feeder Loss
                     3.0 dB ( 30.0 m)
                                          3.5 dB ( 35.0 m)
Duplexer Loss
                     2.5 dB
                                          3.5 dB
Additional Loss
                               -4.8 dB
Antenna
                   13.0 dB(6Yagi-st) 13.0 dB(6Yagi-st)
```



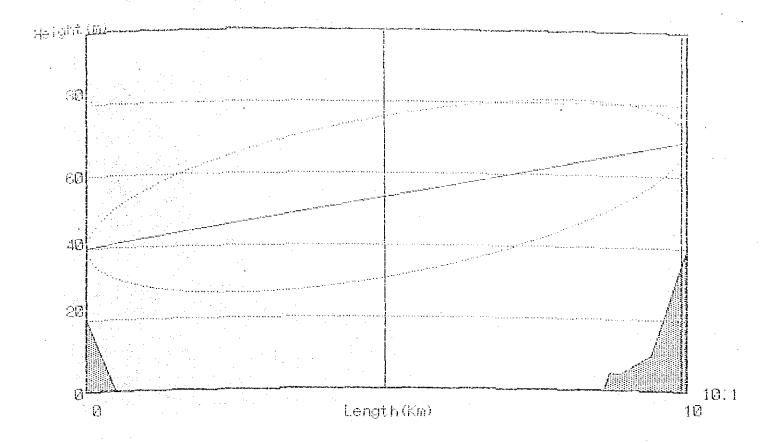
```
Site 2 : KONOKALANG
Site 1 : HURIS
                                       Ground Elevation : 1,590.5 m
                      55.0 m
Ground Elevation:
                                       Antenna Height:
                      30.0 m
Antenna Height:
Frequency:
                     1.5 GHz
                    21.2 Km (Mountain)
Path Length:
                    18.4 Km
Critical Point :
                 1,400.0 m
Ridge Height:
                    10.0 m
Tree Height:
Fresnel Dip :
                    22.0 m
                     -1.4 m
Clearance :
                    -0.06
Clearance Factor:
                   122.4 dB
Propagation Loss
                              243.9 m
Average Propagation Height
                                34.8 dBm
Transmitting Power
                                          3.8 dB ( 38.0 m)
                     4.5 dB ( 45.0 m)
Feeder Loss
                                          3.5 dB
                     2.5 dB
Duplexer Loss
                                7.0 dB
Additional Loss
                                        10.0 dB(Omni
Antenna
                   13.0 dB(6Yagi-st)
```



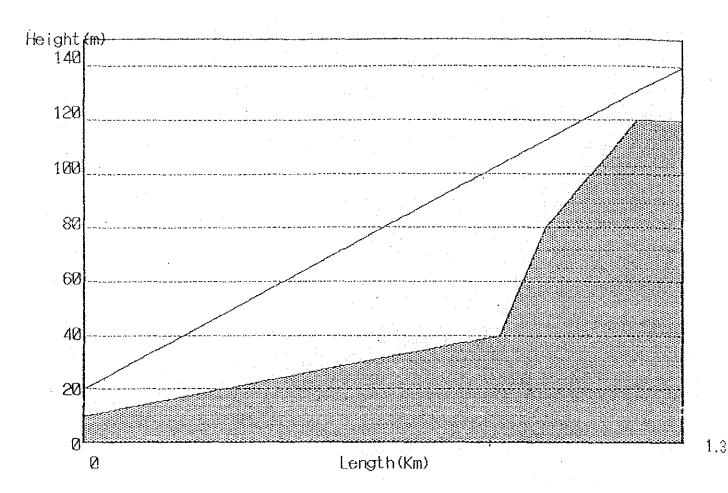
```
Site 1: HILALON
                                       Site 2 : HURIS
                                                               55.0 m
Ground Elevation:
                       20.0 m
                                        Ground Elevation :
                       30.0 m
                                        Antenna Height:
                                                               30.0 m
Antenna Height:
Frequency:
                      1.5 GHz
                     15.4 Km(Sea)
Path Length:
Critical Point :
                      5.6 Km
Ridge Height:
                      0.0 \, \mathrm{m}
Tree Height:
                      0.0 \, \text{m}
Fresnel Dip :
                     26.7 m
Clearance:
                     59.5 m
                      2.23
Clearance Factor:
Propagation Loss
                    119.7 dB
Average Propagation Height
                               61.9 m
Transmitting Power
                                  34.8 dBm
Feeder Loss
                      3.5 dB (35.0 m)
                                           3.5 dB ( 35.0 m)
Duplexer Loss
                      2.5 dB
                                           3.5 dB
Additional Loss
                                -5.3 dB
Antenna
                    17.0 dB(6Yagi-ro)
                                         10.0 dB(Omni
```



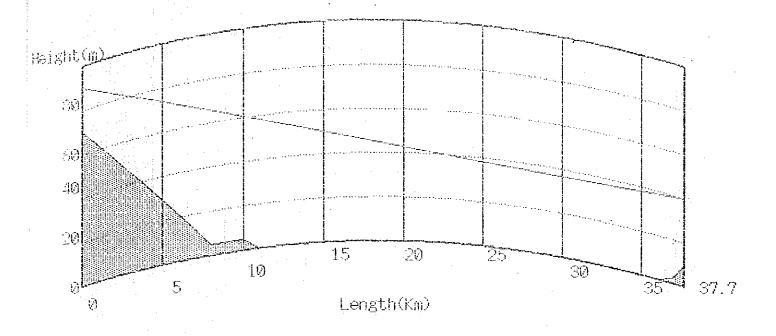
```
Site 2 : HURIS
Site 1 : LIPEK
                                                              55.0 m
                       30.0 m
                                       Ground Elevation :
Ground Elevation :
                       10.0 m
                                       Antenna Height:
                                                              30.0 m
Antenna Height:
                      1.5 GHz
Frequency:
Path Length:
                      4.7 Km(Sea)
Critical Point :
                      2.0 Km
Ridge Height:
                     40.0 m
Tree Height:
                     10.0 m
Fresnel Dip :
                     15.2 m
Clearance :
                      8.8 m
                      0.58
Clearance Factor:
Propagation Loss
                    109.4 dB
Average Propagation Height
                                28.7 m
                                 34.8 dBm
Transmitting Power
                     1.5 dB ( 15.0 m)
Feeder Loss
                                          3.5 dB (
Duplexer Loss
                     2,5 dB
                                          3.5 dB
Additional Loss
                                 0.0 dB
Antenna
                   13.0 dB(6Yagi-st)
                                        10.0 dB(Omni
```



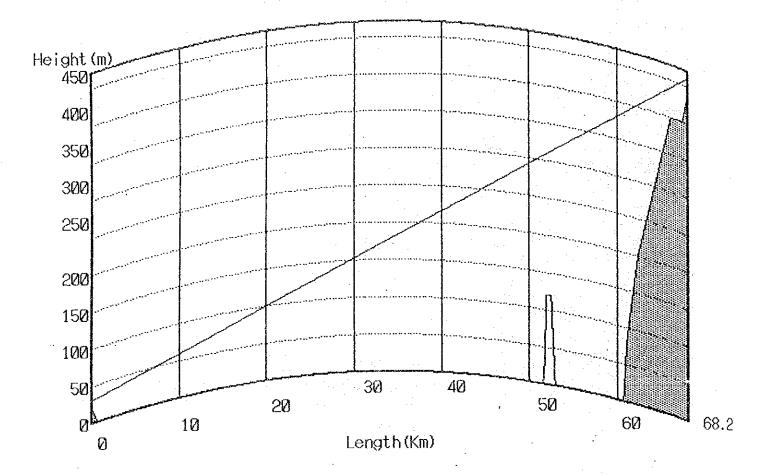
```
Site 1 : HIPAGAT
                                         Site 2 : HURIS
                                                                  40.0 m
Ground Elevation:
                        20.0 \, \text{m}
                                          Ground Elevation:
Antenna Height:
                        20.0 m
                                          Antenna Height:
                                                                   30.0 \, \mathrm{m}
Frequency:
                       1.5 GHz
                      10.1 Km(Sea)
Path Length:
Critical Point :
                       3.8 Km
Ridge Height:
                       0.0 \, \mathrm{m}
                       0.0 \cdot m
Tree Height:
Fresnel Dip:
                      21.8 m
                      49.8 m
Clearance:
Clearance Factor:
                       2.29
Propagation Loss
                     116.0 dB
Average Propagation Height
                                  51.3 m
                                   34.8 dBm
Transmitting Power
                                             3.5 \text{ dB} (-35.0 \text{ m})
                       2.5 dB ( 25.0 m)
Feeder Loss
                                             3.5 dB
                       2.5 dB
Duplexer Loss
                                   0.0 dB
Additional Loss
                                          10.0 dB(Omni
                     13.0 dB(6Yagi-st)
Antenna
```



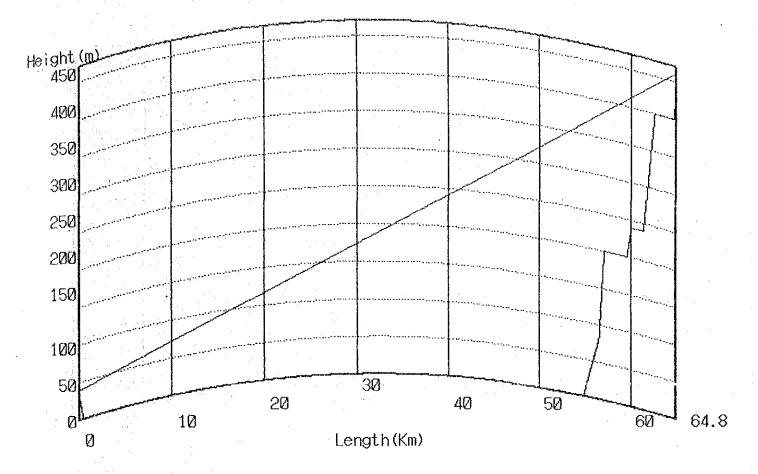
```
Site 1 : PALIPAL
                                       Site 2: DUKE OF YOKE.
Ground Elevation:
                       10.0 m
                                        Ground Elevation: 120.0 m
Antenna Height:
                       10.0 \, \mathrm{m}
                                        Antenna Height:
                    450.0 MHz 1
Frequency:
Path Length:
                      1.3 Km(Sea)
Critical Point:
                      1.2 Km
Ridge Height:
                    120.0 m
Tree Height:
                     10.0 m
Fresnel Dip:
                      7.8 m
Clearance:
                      0.8 \, \text{m}
Clearance Factor:
                      0.10
Path Loss
                    103.6 dB
Average Propagation Height
                                32.3 \, \mathrm{m}
Transmitting Power
                                  30.0 dBm
Feeder Loss
                      1.8 dB ( 15.0 m)
                                           4.2 dB ( 35.0 m)
Duplexer Loss
                      2.5 dB
                                           2.5 dB
Additional Loss
                                  0.0 dB
Antenna
                    14.0 dB(Yagi-12 ) 14.0 dB(Yagi-12)
```



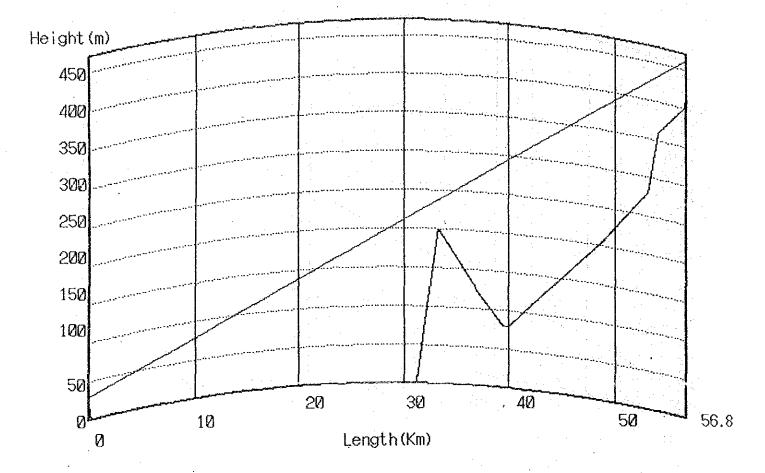
```
Site 1 : TASKUL
                                       Site 2 : KAVIENG
                       70.0 m
                                        Ground Elevation:
Ground Elevation :
                                                               10.0 m
                       20.0 m
                                        Antenna Height:
                                                               30.0 m
Antenna Height:
                    450,0 MHz
Frequency:
                     37.7 Km(Sea)
Path Length:
Critical Point :
                     24.8 Km
Ridge Height:
                      0.0 \, \mathrm{m}
                      0.0 m
Tree Height:
Fresnel Dip :
                     75.3 m
                     38.3 m
Clearance:
Clearance Factor :
                      0.51
Path Loss
                     99.8 dB
                                43.0 m
Average Propagation Height
Transmitting Power
                                 40.0 dBm
Feeder Loss
                      3.0 dB ( 25.0 m)
                                           6.0 dB ( 50.0 m)
Duplexer Loss
                      2.5 dB
                                           2.5 dB
Additional
            Loss
                                 0.0 dB
                    14.0 dB(Yagi-12 ) 14.0 dB(Yagi-12 )
Antenna
```



```
Site 2: TOMAVATUR
Site 1 : KABANUT
                                      Ground Elevation:
Ground Elevation:
                      20.0 m
Antenna Height: 20.0 m
                                      Antenna Height:
                   150.0 MHz
Frequency:
                   68.2 Km(Sea)
Path Length:
                    0.3 Km
Critical Point:
                   10.0 m
Ridge Height:
                    10.0 m
Tree Height:
                    24.4 m
Fresnel Dip:
                    10.7 m
Clearance:
Clearance Factor :
                    0.44
                   103.2 dB
Path Loss:
Average Propagation Height
                            166.6 m
Transmitting Power
                               40.0 dBm
                                       2.3 dB ( 35.0 m)
Feeder Loss
                    1.6 dB ( 25.0 m)
                                        2.5 dB
                    2.5 dB
Duplexer Loss
                               0.0 dB
Additional Loss
                   12.0 dB(8Yagi-si) 12.0 dB(8Yagi-si)
Antenna
```



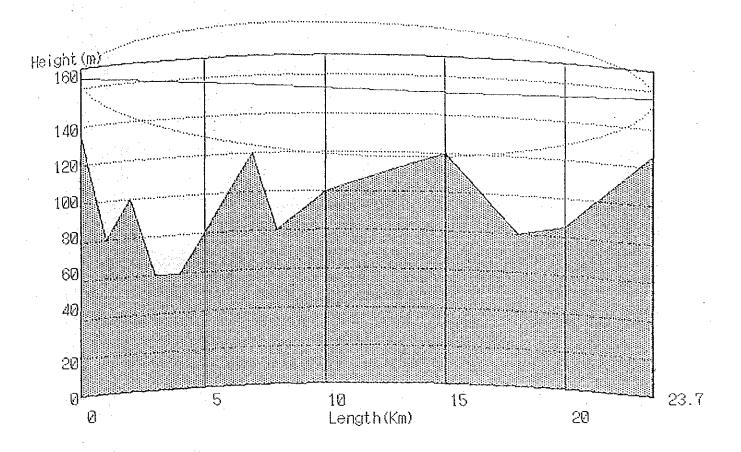
```
Site 1 : KABAHON
                                     Site 2 : TOMAVATUR
Ground Elevation:
                   30.0 m
                                      Ground Elevation:
Antenna Height: 20.0 m
                                      Antenna Height:
Frequency:
                   150.0 MHz
Path Length:
                    64.8 Km(Sea)
Critical Point:
                    62.5 Km
Ridge Height:
                   400.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                    66.6 m
Clearance:
                    28.6 m
Clearance Factor:
                     0.43
Path Loss:
                   102.0 dB
Average Propagation Height
                             174.7 m
Transmitting Power
                               40.0 dBm
                    1.6 dB ( 25.0 m)
2.5 dB
Feeder Loss
                                        2.3 dB ( 35.0 m)
Duplexer Loss
                                        2.5 dB
Additional Loss
                               0.0 dB
Antenna
                  12.0 dB(8Yagi-si) 12.0 dB(8Yagi-si)
```



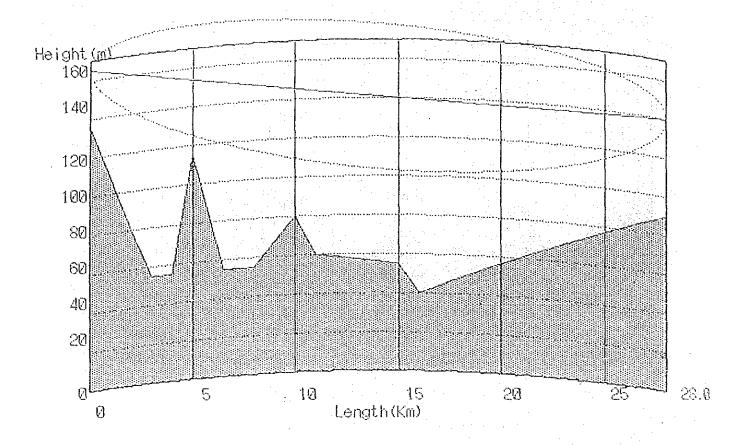
```
Site 2: TOMAVATUR
Site 1: KAIT
                                      Ground Elevation:
                                                            440.0 m
Ground Elevation:
                      20.0 m
                                      Antenna Height:
Antenna Height:
                      20.0 m
                   150.0 MHz
Frequency:
                   -56.8 Km(Sea)
Path Length:
                    33.3 Km
Critical Point:
Ridge Height:
                   200.0 m
Tree Height:
                    10.0 m
Fresnel Dip
                   166.0 m
                    27.3 m
Clearance:
                     0.16
Clearance Factor
                   104.7 dB
Path Loss:
                              13212 m
Average Propagation Height
                                 40.0 dBm
Transmitting Power
                     1.6 dB ( 25.0 m)
Feeder Loss
                                          2.3 dB (
                     2.5 dB
Duplexer Loss
                                          2.5 dB
                                 0.0 dB
Additional Loss
                   12.0 dB(8Yagi-si)
                                        12.0 dB(8Yagi-si)
Antenna
```

WESTERN PROVINCE

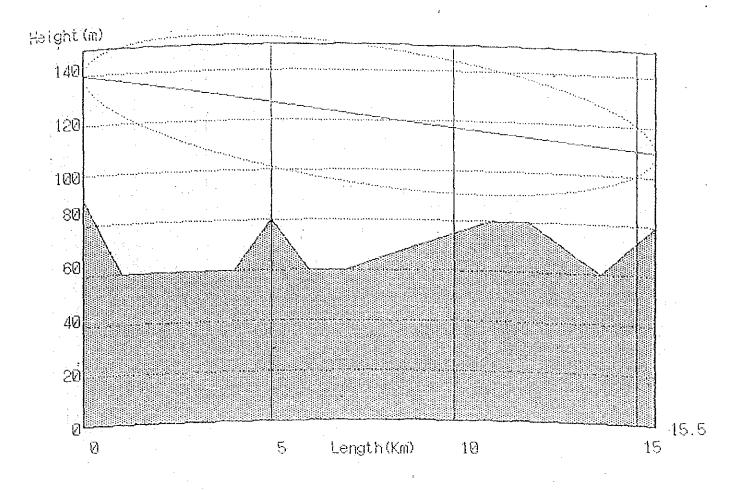
Alkamba	Kiunga	(1.5GHZ)	 4	0
Atkamba ~	Runginae	(")	 4	1
Runginae ~	Matkomrae	(, ")	 4	2
Matkomrae ~	Kungim	(")	4	3
Ningerum ~	Mt. Robinson	(450MHZ)	 4	4
Suábl ~	Mt. Karoma	(")	4	5
Debepare ~	Mt.Karoma	(" ")	 4	6
Mogula ~	Mt. Karoma	.(" ")	 4	7
Wipim ~	Daru .	(150MHZ)	 4	8



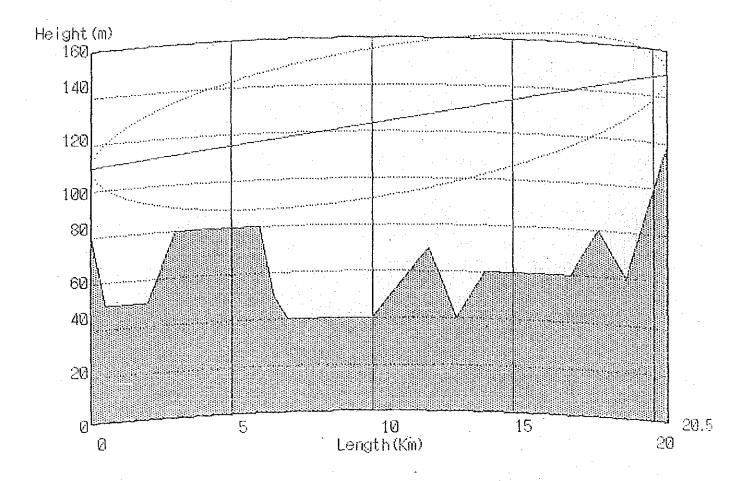
```
Site I : ATKAMBA
                                      Site 2 : KIUNGA
Ground Elevation:
                                      Ground Elevation:
                                                           126.0 m
                     135.0 m
Antenna Height:
                      30.0 m
                                       Antenna Height:
                                                             30.0 m
Frequency:
                     1.5 GHz
Path Length:
                    23.7 Km(Mountain)
Critical Point:
                    15.0 Km
Ridge Height:
                    120.0 m
Tree Height:
                    10.0 m
Fresnel Dip:
                    33.2 m
Clearance :
                    21.6 m
Clearance Factor:
                     0.65
Propagation Loss
                   123.4 dB
Average Propagation Height
Transmitting Power
                                34.8 dBm
Feeder Loss.
                     3.5 dB ( 35.0 m)
                                         3.5 dB ( 35.0 m)
Duplexer Loss
                                         3.5 dB
Additional Loss
                               -5.3 dB
Antenna
                   32.0 dB(PARA 4M )
                                       32.0 dB(PARA 4M )
```



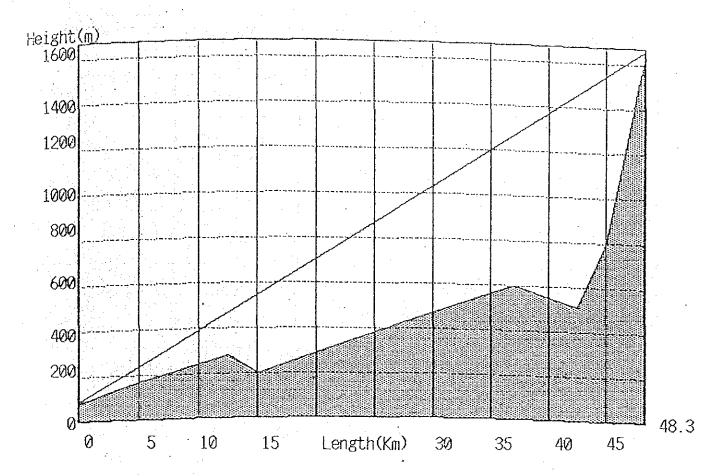
```
Site 1 : ATKAMBA
                                       Site 2 : RUNGINAE
Ground Elevation :
                     135.0 m
                                       Ground Elevation
                      30.0 m
                                        Antenna Height:
Antenna Height:
                     1.5 GHz
Frequency:
                    28.0 Km(Mountain)
Path Length:
Critical Point:
                     5.0 Km
Ridge Height:
                    115.0 m
Tree Height:
                     10.0 m
Fresnel Dip :
                     28.7 m
Clearance:
                     28.8 \, \text{m}
                      1.00
Clearance Factor:
                    124.9 dB
Propagation Loss
                               78.3 m
Average Propagation Height
Transmitting Power
                                 34.8 dBm
Feeder Loss
                     3.5 dB
                              35.0 m)
                                          5.5 dB
Duplexer Loss
                     2.5 dB
                                          3.5 dB
Additional Loss
                                -6.8 dB
Antenna
                   23.0 dB(Para-1.2)
                                         26.0 dB(PARA-1.8)
```



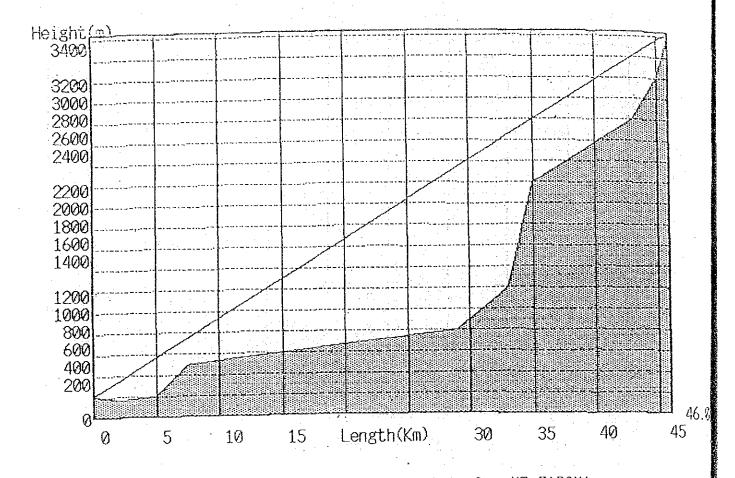
```
Site 2 : MATKOMRAE
Site 1 : RUNGINAE
                                      Ground Elevation:
                                                            80.0 m
Ground Elevation:
                      90.0 m
                                                            30.0 m
                      50.0 m
                                      Antenna Height:
Antenna Height:
                      1.5 GHz
Frequency:
Path Length:
                    15.5 Km (Mountain)
                    11.0 Km
Critical Point:
                    80.0 m
Ridge Height:
Tree Height:
                    10:0 m
                    25.3 m
Fresnel Dip
                    25.8 m
Clearance:
                     1.02
Clearance Factor
Propagation Loss
                    119.7 dB
Average Propagation Height
                               54.5 m
                                  34.8 dBm
Transmitting Power
                      5.5 dB (55.0 m)
Feeder Loss
                                           3.5 dB ( 35.0 m)
Duplexer Loss
                      2.5 dB
                                           3.5 dB
                                -6.8 dB
Additional Loss
                    13.0 dB(6Yagi-st)
Antenna
                                         23.0 dB(Para-1.2)
```



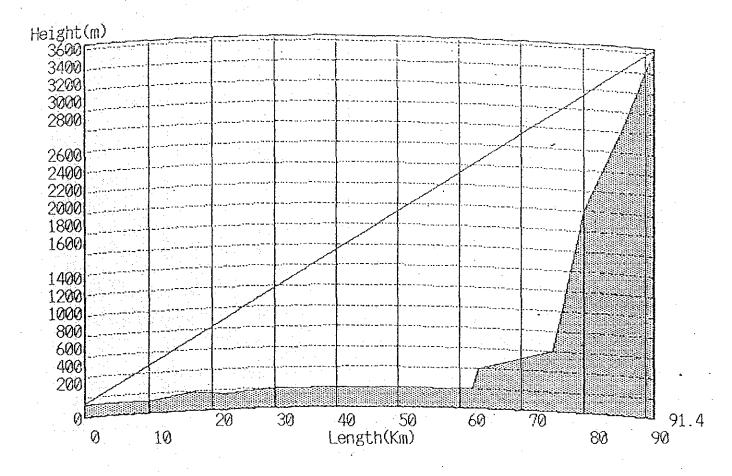
```
Site 2 : KUNGIM
Site I : MATKOMRAE
                                        Ground Elevation
Ground Elevation:
                       80.0 m
                                        Antenna Height
                       30.0 \, \text{m}
Antenna Height:
Frequency:
                      1.5 GHz
                     20.5 Km(Mountain)
Path Length:
                      5.7 Km
Critical Point:
Ridge Height:
                     80.0 m
Tree Height:
                     10.0 m
Fresnel Dip
                     28.7 \text{ m}
Clearance:
                     26.2 m
Clearance Factor
                      0.91
Propagation Loss
                    122.2 dB
                                65.0 m
Average Propagation Height
Transmitting Power
                                  34.8 dBm
Feeder Loss
                                            3.5 dB
                      3.5 dB ( 35.0 m)
                                            3.5 dB
Duplexer Loss
                      2.5 dB
Additional Loss
                                 -5.3 dB
                    17.0 dB(6Yagi-ro) 23.0 dB(Para-1.2)
Antenna
```



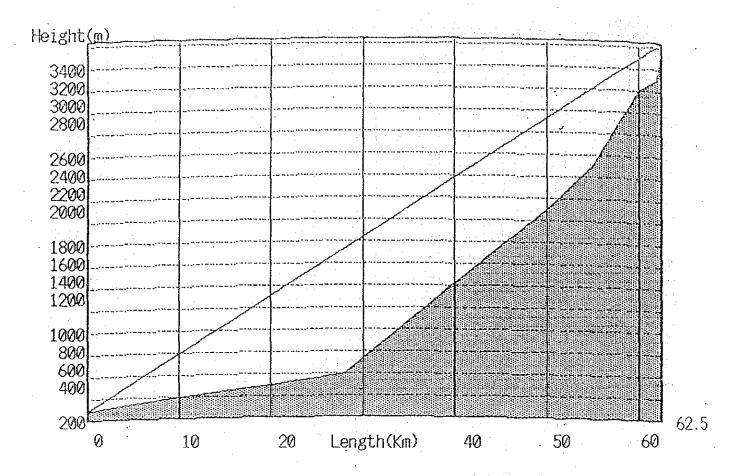
```
Site 1: NINGERUM
                                      Site 2 : MT.ROBINSON
Ground Elevation:
                                       Ground Elevation: 1,642.8 m
                       80.0 m
                                                          20.0 m
Antenna Height:
                       10.0 m
                                       Antenna Height:
Frequency:
                    450.0 MHz
Path Length:
                     48.3 Km(Inland)
Critical Point:
                      5.0 Km
Ridge Height:
                    170.0 m
Tree Height:
                     10.0 m
Fresnel Dip:
                     54.7 \text{ m}
Clearance:
                     60.1 m
Clearance Factor:
                     1.10
Path Loss
                    107.9 dB
Average Propagation Height
                              433.4 m
                                30.0 dBm
Transmitting Power
                     1.8 dB ( 15.0 m)
                                          3.0 dB ( 25.0 m)
Feeder Loss
                     2.5 dB
                                          2.5 dB
Duplexer Loss
                   0.0 dB
14.0 dB(Yagi-12 ) 14.0 dB(Yagi-12 )
Additional Loss
Antenna
```



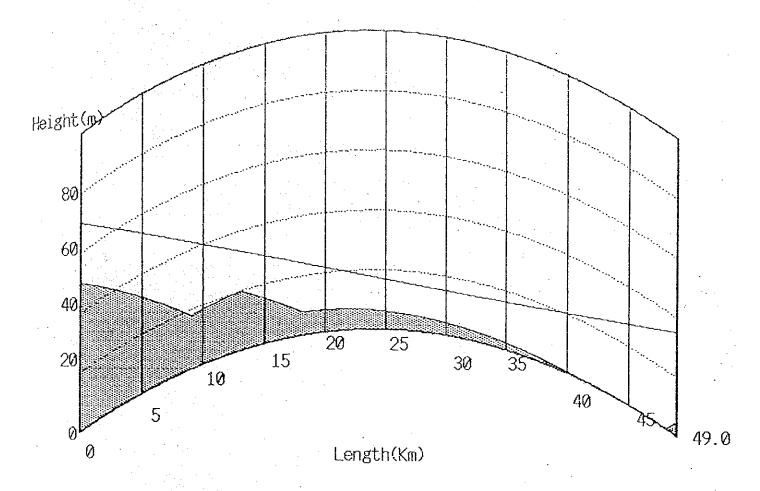
```
Site 2 : MT.KAROMA
Site I: SUABI
                                       Ground Elevation: 3,620.5 m
                     200.0 m
Ground Elevation:
                                       Antenna Height:
                      10.0 m
Antenna Height:
                    450.0 MHz
Frequency:
                    46.0 Km(Inland)
Path Length:
                     7.5 Km
Critical Point:
                   500.0 m
Ridge Height:
                    10.0 m
Tree Height:
                    64.7 m
Fresnel Dip :
Clearance:
                    241.5 m
Clearance Factor
                      3.73
                    107.4 dB
Path Loss
                              775.7 m
Average Propagation Height
Transmitting Power
                                30.0 dBm
                                          2 4 dB (
                     1.8 dB ( 15.0 m)
Feeder Loss
                                          2.5 dB
Duplexer Loss
                     2.5 dB
                                0.0 dB
Additional Loss
                                        14.0 dB(Yagi-12)
                   14.0 dB(Yagi-12 )
Antenna
```



```
Site 1 : DEBEPARE
                                    .Site 2 : MT. KAROMA
Ground Elevation:
                    130.0 m
                                      Ground Elevation:
Antenna Height :
                    10.0 m
                                      Antenna Height:
                   450.0 MHz
Frequency:
Path Length :
                    91.4 Km(Inland)
                    91.1 Km
Critical Point:
Ridge Height:
                 3,579:5 m
Tree Height:
                    10.0 m
Fresnel Dip :
                    13.4 m
Clearance:
                    34.3 m
Clearance Factor :
                    2.56
                   113.4 dB
Path Loss
Average Propagation Height 1,202.2 m
Transmitting Power
                                40.0 dBm
Feeder Loss
                     1.2 dB ( 15.0 m)
                                        2.4 dB ( 20.0 m)
Duplexer Loss
                     2.5 dB
                                         2.5 dB
Additional Loss
                                0.0 dB
                  14.0 dB(Yagi-12 ) 14.0 dB(Yagi-12 )
Antenna
```



```
Site 1: MOGULU
                                      Site 2 : MT.KAROMA
Ground Elevation:
                     280.0 m
                                      Ground Elevation: 3,620.5 m
Antenna Height:
                      10.0 m
                                       Antenna Height:
Frequency:
                   450.0 MHz
Path Length:
                    62:5 Km(Inland)
Critical Point:
                     1.0 Km
Ridge Height:
                   300.0 m
Tree Height:
                    10.0 \, \text{m}
Fresnel Dip :
                    25.6 m
Clearance:
                    29.9 m
Clearance Factor
                     1.17
Path Loss
                   110.1 dB
Average Propagation Height
                             715.0 m
Transmitting Power
                                40.0 dBm'
Feeder Loss
                     1.8 dB ( 15.0 m)
                                         2.4 dB ( 20.0 m)
Duplexer Loss
                     2.5 dB
                                         2.5 dB.
Additional Loss
                                0.0 dB
Antenna
                   14.0 dB(Yagi-12 )
                                      14.0 dB(Yagi-12)
```

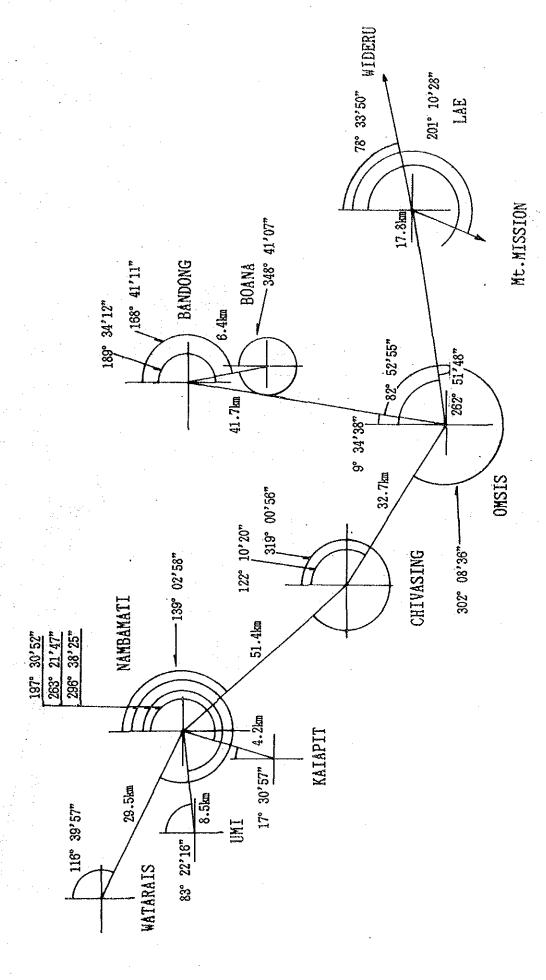


```
Site 1: WIPIM
                                      Site 2 : DARU
Ground Elevation:
                                       Ground Elevation
                       50.0 m
                                                               5.0 m
Antenna Height:
                       20.0 m
                                       Antenna Height:
                                                              30.0 m
Frequency:
                    150.0 MHz
Path Length:
                     49.0 Km(Sea)
Critical Point :
                     27.8 Km
Ridge Height:
                      5.3 m
Tree Height:
                     10.0 m
Fresnel Dip:
                    155.1 m
Clearance:
                      0.3 \, \mathrm{m}
Clearance Factor:
                      0.00
Path Loss:
                    125.4 dB
Average Propagation Height
                               17.4 m
Transmitting Power
                                 40.0 dBm
                      2.3 dB ( 35.0 m)
Feeder Loss
                                           2.3 dB ( 35.0 m)
                      2.5 dB
                                           2.5 dB
Duplexer Loss
Additional Loss
                                 0.0 dB
Antenna
                    14.5 dB(8Yagi-st)
                                         14.5 dB(8Yagi-st)
```

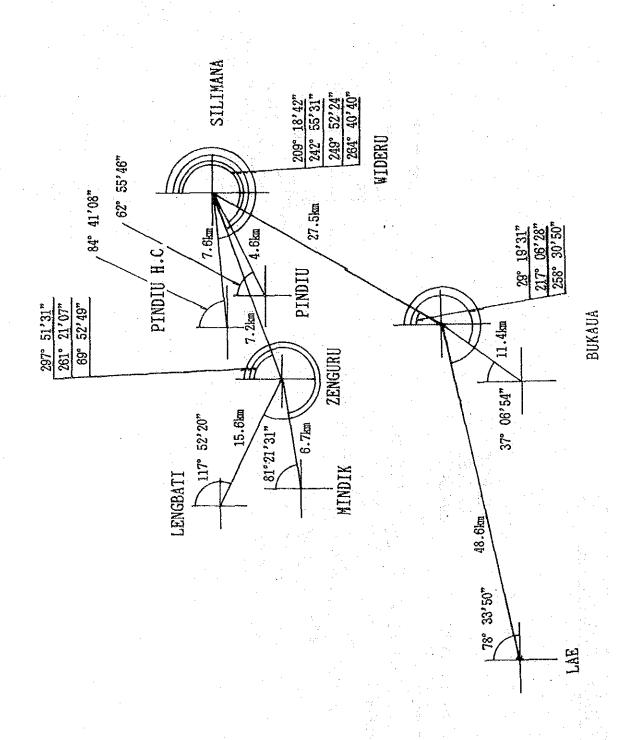
ANNEX 2

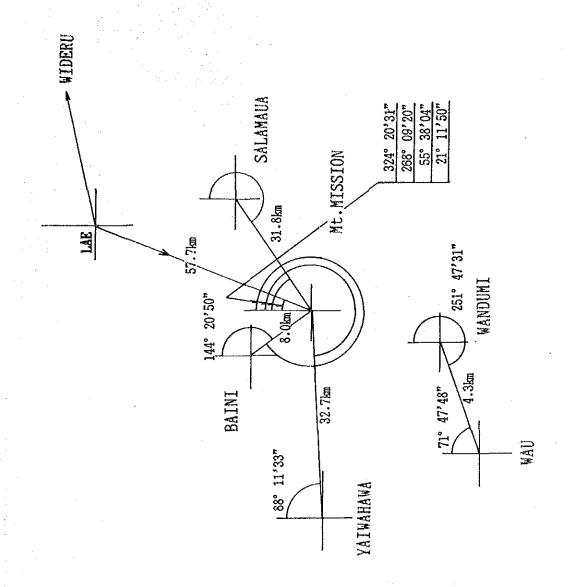
AZIMUTH ANGLE OF EACH SECTION

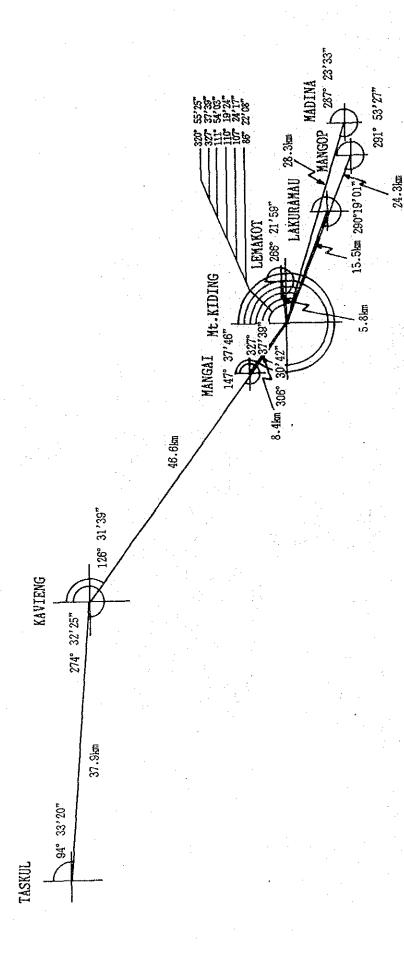
Morobe Province	1~3
New Ireland Province	4~5
Western Province	6~7



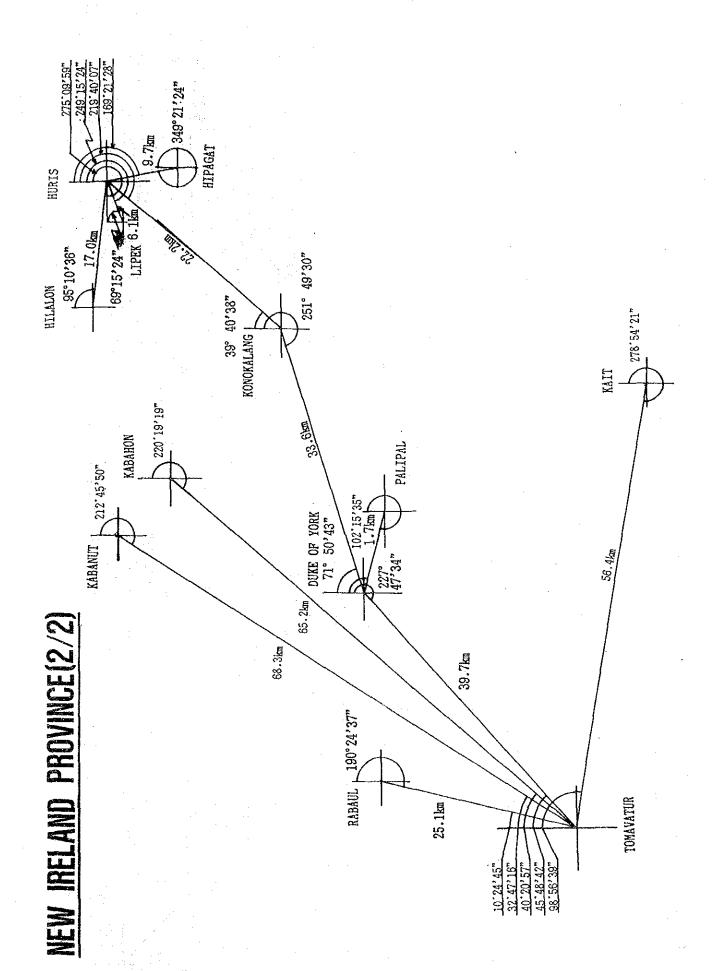
Annex-2-1







Annex-2-4



Annex-2-5

