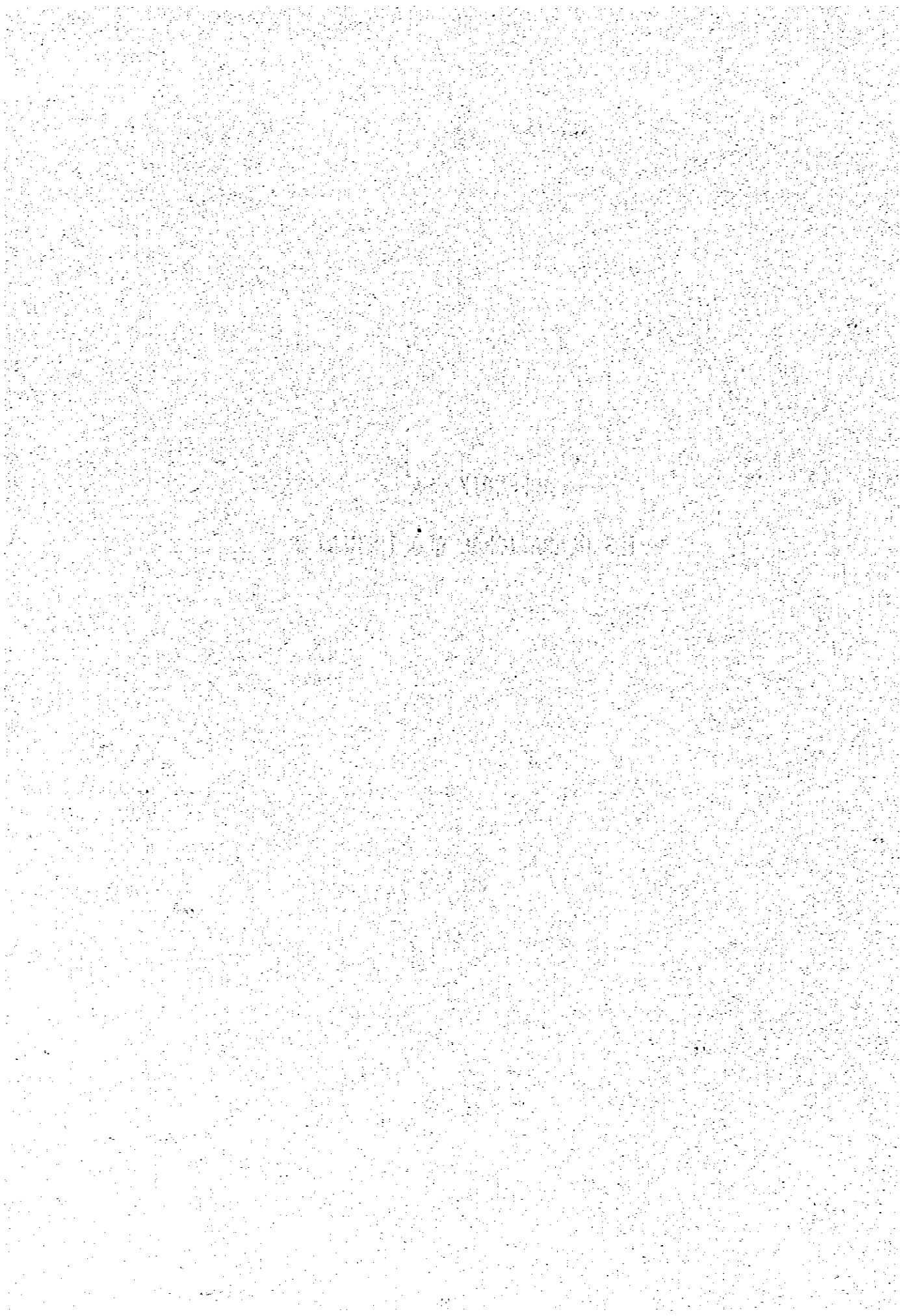


APPENDIX 5A
ILS OPERATIONAL REQUIREMENT



Appendix 5A ILS OPERATIONAL REQUIREMENTS

Operational requirements of ICAO by category of Instrument Landing System (ILS) are as follows:

Table 5A-1 ICAO ILS OPERATIONAL REQUIREMENTS BY CATEGORY

Category	Decision Height		Runway Visual Range	
	meter	(ft.)	meter	(ft.)
I	60	(200)	800	(2600)
II	30	(100)	400	(1200)
III	-	-	Below 200	(700)

The frequency of occurrence of below Cat-I operational minima at each meteorological observation point based on data obtained 24 times a day for a 12-month period are as follows:

Table 5A-2 PERCENTAGE OF OCCURRENCE OF WEATHER CONDITIONS BELOW CAT-I OPERATIONAL MINIMA

	Toncontin	Pedregal	Hule	Talanga
Average for 12-month period	0.7%	4.4%	11.5%	
Jan	0	12.1	5.0	
Feb	0	0.5	5.0	
Mar	0	1.6	3.5	0
Apr	0	1.9	14.6	0.15
May	0.7	0.9	6.1	0
Jun	3.1	4.3	14.7	0.15
Jul	0.7	7.7	13.2	
Aug	1.3	1.8	13.3	
Sep	0	0.5	16.7	
Oct	2.2	3.2	19.5	
Nov	0	11.3	13.4	
Dec	0	13.6	8.0	

Provision of ILS at airports regularly handling international jet flights is generally required by international airlines. ILS is often an economic necessity where its absence could result in excessive delays and diversions of traffic. As Tegucigalpa area is surrounded by mountains and is elevated high, it has low cloud height and poor visibility as shown in Table 3A-2 above.

Notwithstanding the fact that according to the ICAO recommendation as stipulated in the "Requirements of ILS at New Tegucigalpa International Airport, ANP 1977", ILS Category I operation with Category II ILS equipment and appropriate airfield lighting system are recommended, in this site selection study Category I equipment is selected for economic reasons, especially of cost-effectiveness considerations based on (1) expected number of flight movements and (2) costs of equipment, operation and maintenance.

APPENDIX 5B

AERONAUTICAL METEOROLOGICAL ANALYSIS

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Appendix 5B

AERONAUTICAL METEOROLOGICAL ANALYSIS

1. Observation Data Obtained

1) Source

Dirección General de Aeronautica Civil, Servicio Meteorológico Nacional

2) Observation Points, Period, Time and Interruption

i) Toncontin (Existing Airport Site) - Elev. 1000m

January to December, 1976 (12 months)
Hourly observation (24 times a day)
No interruption of observation

ii) El Pedregal - Elev. 1500m

January to December, 1976 (12 months)
Hourly observation (24 times a day)
Interruption 23%

iii) Cerro de Hule - Elev. 1500m

- a) January, 1962 (1 month)
Hourly observation (12 times a day)
No interruption of observation
- b) February, 1962 to January, 1963 (12 months)
Hourly observation (24 times a day)
Interruption 7%
- c) April to December, 1970 (9 months)
Hourly observation (12 times a day)
Interruption 24%

iv) Talanga - La Ermita - Elev. 760m

March, 1978 to present
Hourly observation (24 times a day)
No interruption of observation

v) Talanga - El Espino - Elev. 760m

April, 1978 to present
Anemocienemograph recording (24 hours a day)
No interruption of observation

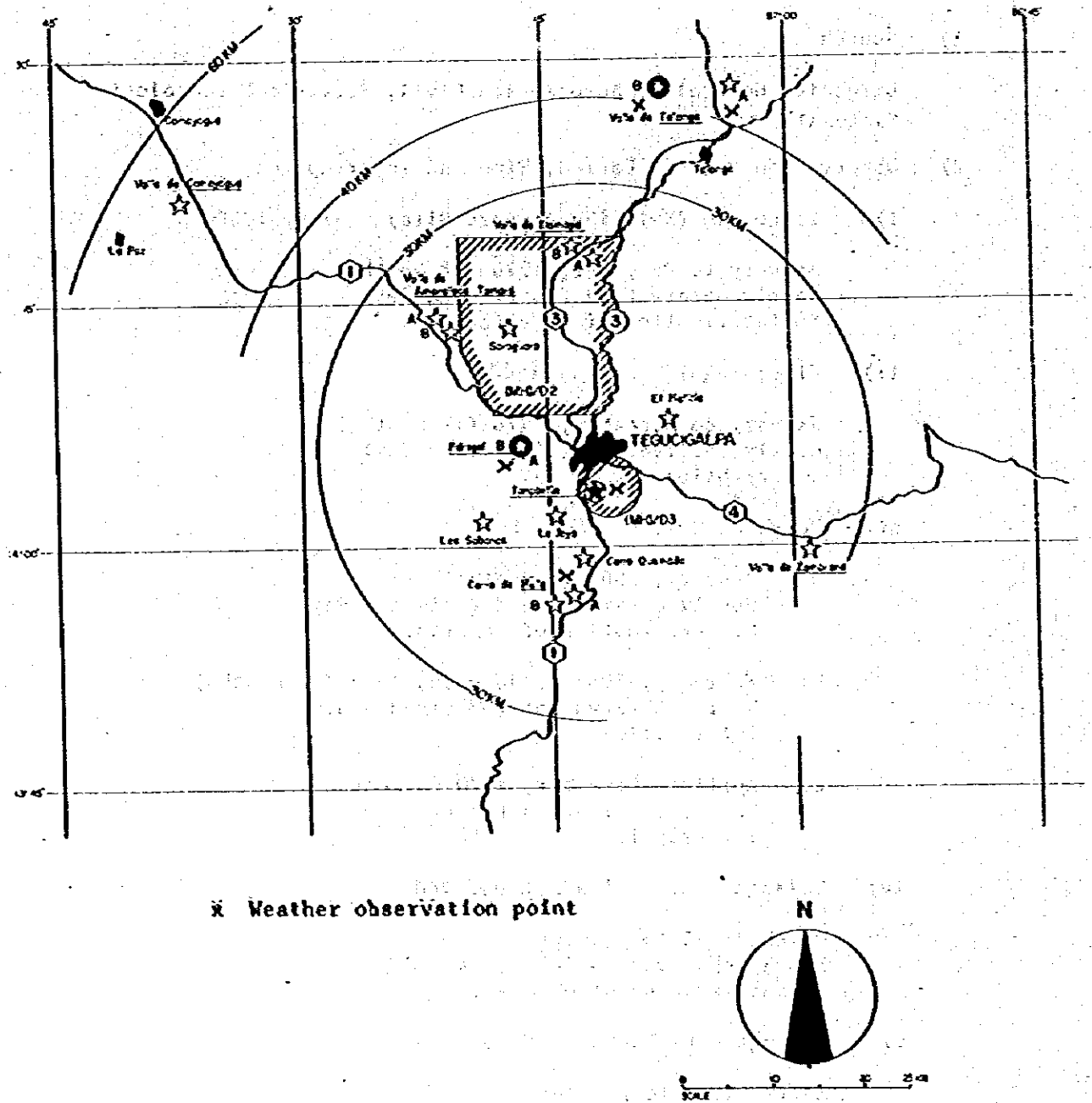


Fig. 5B-2 LOCATION OF WEATHER OBSERVATION POINTS

2. Results of Analysis

1) Toncontin

i) Prevailing wind direction : N to NNE

ii) Frequency of occurrence of calm wind:

39% of the total number of observations

25% of the number of daytime observations only

iii) Annual frequency of occurrence of weather conditions below weather minimum (ceiling/visibility):

	<u>Below 200ft - 800m</u>	<u>Below 1200ft - 2800m (Operating minima for the existing runway)</u>
Out of the total number of observations	0.7%	17%
Out of the number of daytime observations only	0.8%	21%

iv) Wind coverage

	<u>Maximum cross-wind component :</u>	
	<u>10kts</u>	<u>15kts</u>
RWY 01/19	95.2%	99.8%
RWY 06/24	89.5%	99.3%
RWY 13/31	85.3%	98.7%

2) El Pedregal

i) Prevailing wind direction : N to NNE

ii) Frequency of occurrence of calm wind:

52% Whole year.

44% Dry season

58% Wet season

iii) Frequency of occurrence of weather conditions below weather minimum (ceiling/visibility, 24 hours):

	<u>Below 200ft - 800m</u>	<u>Below 200ft - 1200m</u>
Whole year	4%	7%
Dry season	4%	6%
Wet season	4%	7%

iv) Wind coverage

Not less than 99% for any direction under the maximum cross-wind component of 15kts.

3) Cerro de Hule

i) Prevailing wind direction : N

ii) Frequency of occurrence of calm wind:

32% Whole year

27% Dry season

35% Wet season

iii) Frequency of occurrence of weather conditions below weather minimum (ceiling/visibility, 24 hours):

	<u>Below 200ft - 800m</u>	<u>Below 200ft - 1200m</u>
Whole year	12%	12%
Dry season	7%	7%
Wet season	15%	15%

iv) Wind coverage:

	<u>Max. cross-wind component</u>	
	<u>10kts</u>	<u>15kts</u>
RWY 04/22		
Whole year	74.8%	93.1%
Dry season	73.1%	92.0%
Wet season	75.9%	94.4%
RWY 18/36		
Whole year	97.3%	99.7%
Dry season	97.0%	99.7%
Wet season	97.5%	99.6%

v) Other findings:

During January, 1962, wind of over 30kts was observed, with frequency of occurrence of 57%.

4) Valle de Talanga

i) Prevailing wind direction : E

ii) Frequency of occurrence of calm wind:

More than 50%

iii) Frequency of occurrence of weather conditions below weather minimum (Ceiling 200ft, Visibility 800m)

No more than 1%

Table 5B-1 SUMMARY (1)

Observation Point	Year	D.S	W.S.	Dry Season (D.S.)			Wet Season (W.S.)				
				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul

a) Prevailing Wind Direction

Toncontin 12 hrs 24 hrs	N,NNE	N,NNE	N	NNE	NNE	NNE	NW	N,NE	NW	N,NW	NW	NW	NW	NW	NW	N	NNE	NNE
	N,NNE	N	NNE	NNE	NNE	NW	NW	N	NW	N	N	NW	NW	N	N	N	NNE	NNE
Pedregal	N	N	N,NNE	NE	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE
Hule 1962*1 1970	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Talanga La Ermita El Espino						E		E	E	E	E	E	E	E	E			

*1 March to December only

b) Frequency of Occurrence of Calm Wind (%)

Toncontin 12 hrs 24 hrs	25.4	24.6	26.3	18.4	15.1	14.1	29.0	32.3	38.2	51.8	15.6	21.1	26.2	26.8	16.7
	39.0	34.4	43.7	30.9	23.3	24.0	40.1	40.6	47.0	63.1	34.7	41.7	46.3	44.8	31.5
Pedregal	51.9	44.4	58.3	32.5	22.4	28.2	43.5	51.3	68.8	83.6	38.6	51.4	64.1	60.1	48.4
Hule 1962*1 1970	31.6	27.4	35.2	11.5	13.6	24.6	46.3	31.5	25.9	58.8	7.1	36.7	52.4	43.1	13.8
Talanga La Ermita El Espino							66.1	56.6	59.7	62.2					
								54.9	45.1	52.5					

*1 March to December only

Table 5B-1 SUMMARY (2)

Observation Point	Year	D.S.	W.S.	Frequency of Occurrence of Wind Velocity More Than 20 kts (%)											
				Dry Season (D.S.)						Wet Season (W.S.)					
				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Toncontin 12 hrs	0.36	0.50	0.21	0.25	1.49	1.06	0.25	0	0	0	0	0.25	0.26	0	0.77
24 hrs	0.33	0.52	0.14	0.40	0.81	0.57	1.07	0.14	0.13	0.14	0	0.13	0.14	0	0.42
Pedregal	0.09	0.19	0	0	0.40	1.00	0	0	0	0	0	0	0	0	0
Hule 1962*2	6.85	8.36	5.56	17.69	75.53	12.63	6.33	7.50	0.94	0.42	5.91	3.36	0.28	0.95	22.79
Hule 1970	13.58	20.53	9.09		11.53										
Talanga La Ermita El Espino															

C) Frequency of Occurrence of Wind Velocity More Than 20 kts (%)

*1 12 hrs. 1962 only

*2 March to December, 1970

Table 5B-1 SUMMARY (3)

Observation Point	Year	D.S.	W.S.	Dry Season (D.S.)			Wet Season (W.S.)				
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug

d) Frequency of Occurrence of Ceiling/Visibility Minimum (%)

Tonconcia (12hrs) 200ft - 800m 1200ft - 2800m *1	0.76	0.08	1.47	0	0	0	0	0	0	0	3.85	0	1.24	0	3.72	0
	20.55	12.99	24.30	34.99	17.87	9.28	1.99	5.90	7.69	36.15	22.58	15.14	13.85	29.53	26.92	
(24hrs) 200ft - 800m 1200ft - 2800m	0.74	0.11	1.25	0	0	0	0	0.67	3.14	0.68	1.34	0	2.15	0		
	17.06	12.48	21.65	33.91	18.01	7.89	1.47	4.43	8.74	34.67	19.35	9.66	11.20	31.95	23.19	
Pedregal 200ft - 800m 200ft - 1200m	4.38	4.34	4.34	13.61	12.10	0.50	1.59	0.94	4.28	7.69	1.82	0.46	3.23	11.29		
	6.70	6.32	7.10	24.17	14.48	0.75	2.07	1.75	8.22	9.74	3.33	1.98	7.22	15.21		
Hule (1962) 200ft - 800m 200ft - 1200m	11.46	7.14	15.11	8.97	12.20*2	5.02	3.50	6.05	14.71	13.17	13.31	16.67	19.50	13.36		
	11.71	7.28	15.46	8.97	5.03	5.02	3.50	6.32	15.13	13.31	13.31	16.81	19.86	14.35		
(1970)*3 200ft - 800m 200ft - 1200m	13.63	9.67	16.01													
	14.54	10.55	16.50													
Talanga - La Ermita 200ft - 800m 200ft - 1200m							0	0.15	0	0.15	0					
							0	0.58	1.11	0.15	0.15					

*1 Existing Runway Operation Minimum

*2 12hrs, 1962 only

*3 March to December only

Table 5B-1 SUMMARY (4)

c) Wind Coverage

(%)

Observation Point	XNY	Cross Wind Components of						
		10kts			15kts			
		Year	Dry Season	Wet Season	Year	Dry Season	Wet Season	
Toncontin	12hrs	01/19	91.6 x	91.2 x	92.2 x	99.7	99.6	99.8
		06/24	84.6 x	82.8 x	85.4 x	98.9	98.6	99.3
		13/31	79.8 x	75.5 x	83.6 x	98.0	97.3	99.2
	24hrs	01/19	95.2	94.6	95.4	99.8	99.8	99.9
		06/24	89.5 x	88.7 x	90.7 x	99.3	99.0	99.5
		13/31	85.3 x	82.0x	89.0 x	98.7	97.9	99.8
Pedregal	24hrs	99.6	100.0	99.7	99.99	99.4	99.97	
Hule (1962)	24hrs	04/22	74.8 x	73.1 x	75.9 x	93.1 x	92.0 x	94.4 x
		18/36	97.3	97.0	97.5	99.7	99.7	99.6
Talanga #1 La Ermita	24hrs	17/35		90.1 x	87.1 x		98.2	94.5 x
		10/28		96.7	97.9		99.5	99.5
El Espino #2	24hrs	17/35		88.9 x	86.3 x		99.7	99.4
		10/28		98.2	99.5		99.9	100.0

Notes to Observation Period: #1 March to June, 1978 #2 April to June, 1978

Mark x indicates wind coverage less than 95%

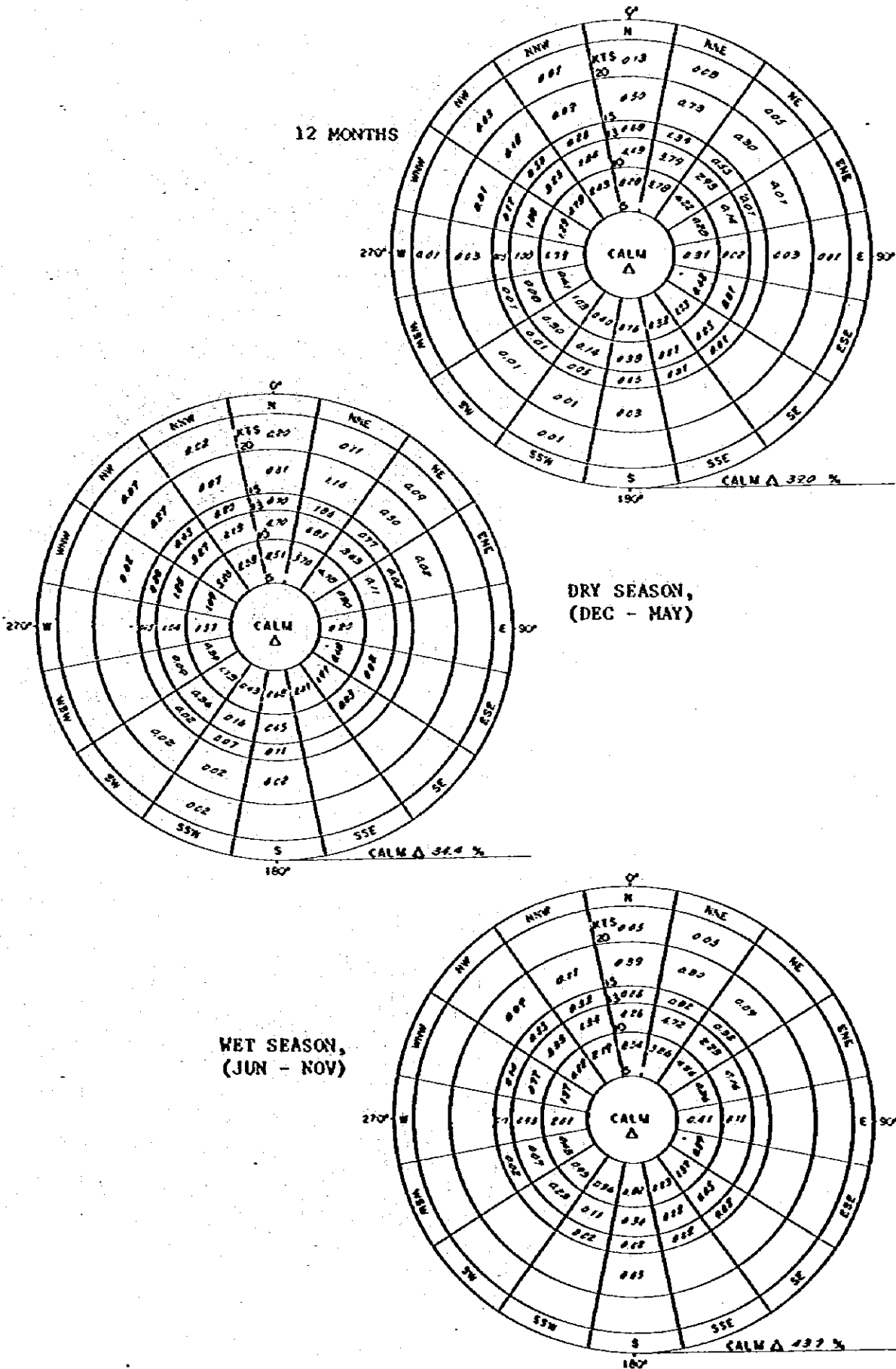


Fig. 5B-2 (a) TONCONTIN WIND ROSE, 1976

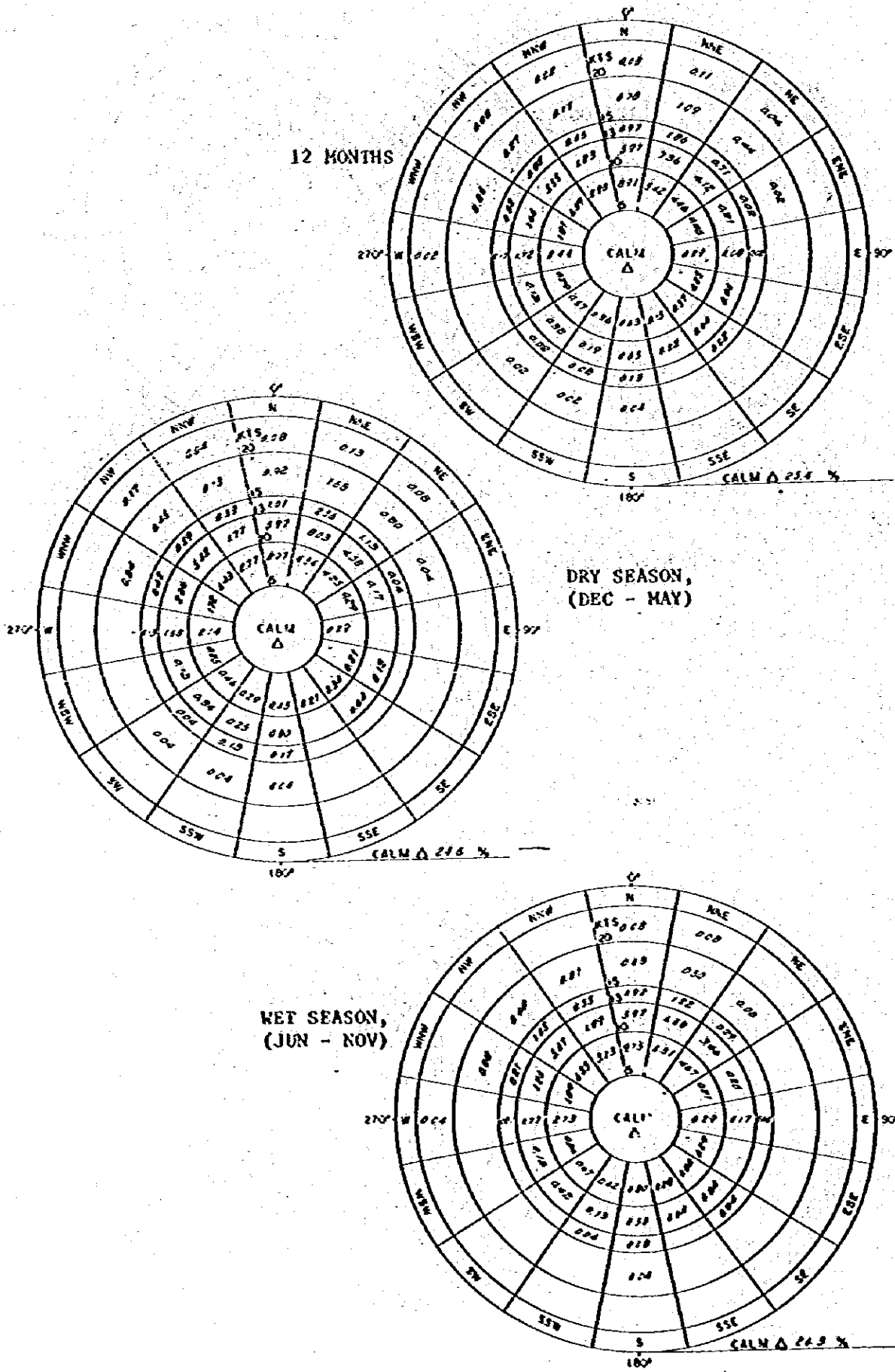


Fig. 5B-2 (b) TONCONTIN-DAYTIME WIND ROSE, 1976

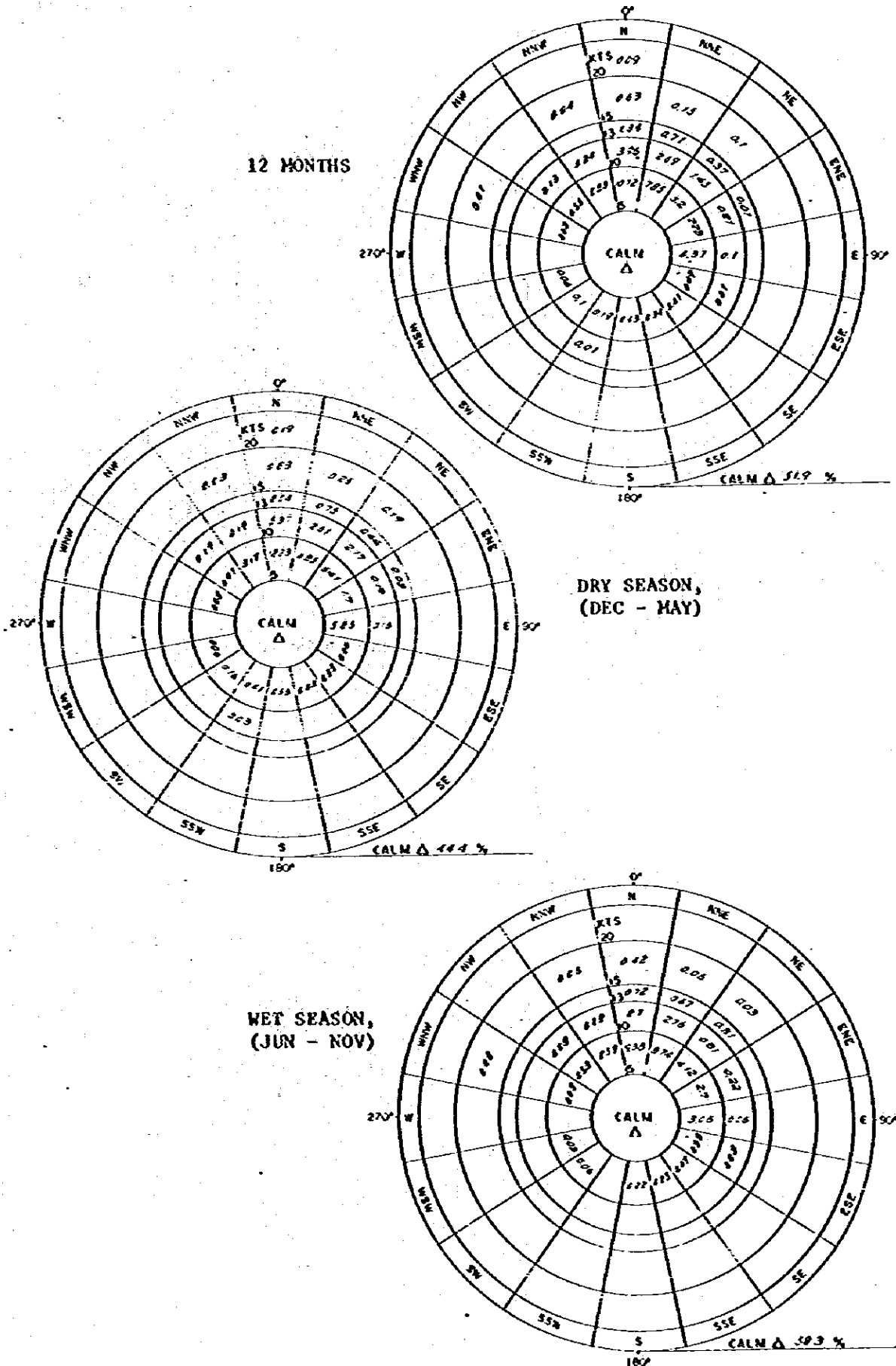


Fig. 5B-3 PEDREGAL WIND ROSE, 1976

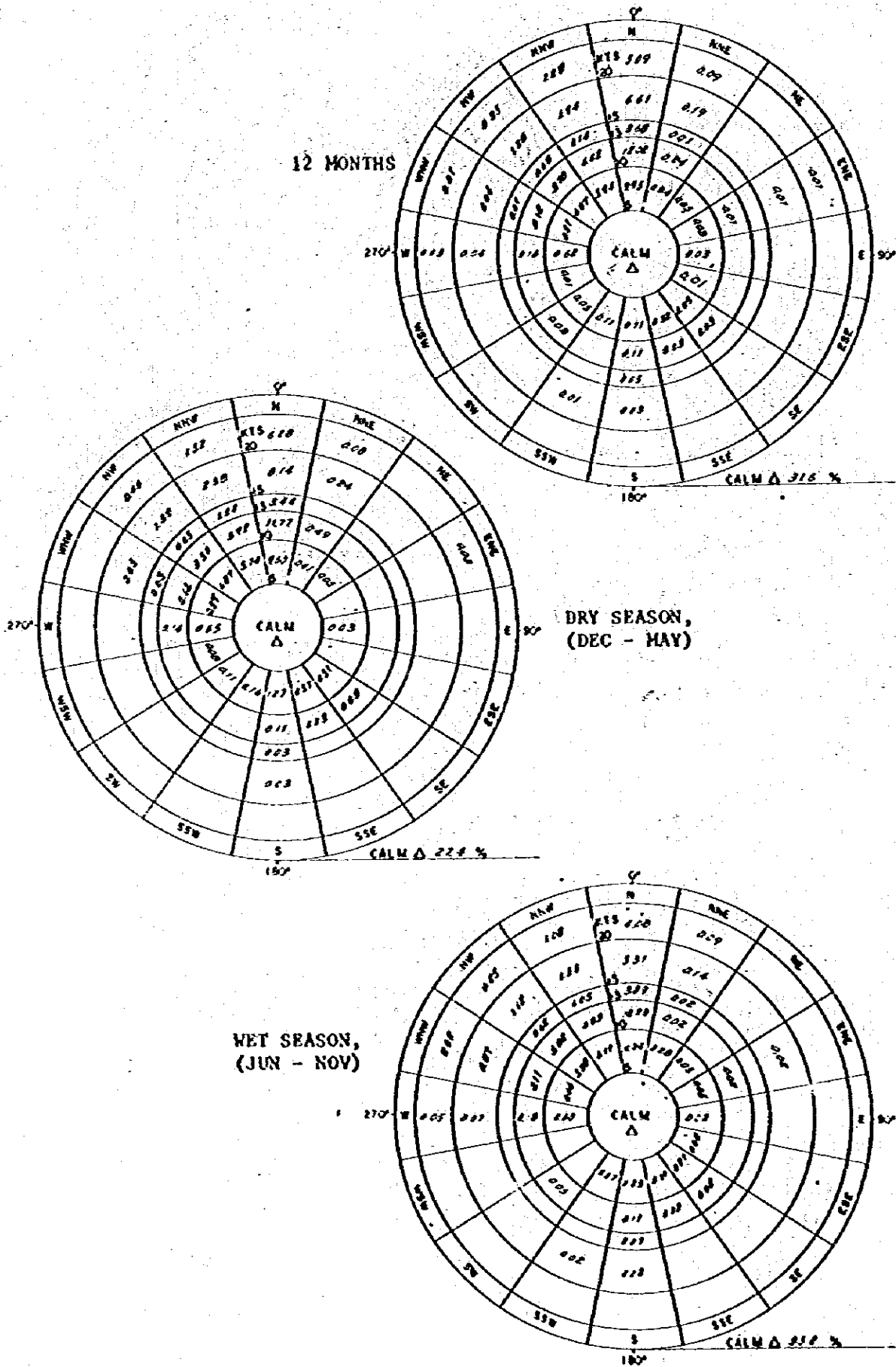


Fig. 5B-4 HULE WIND ROSE, 1962 - 1963

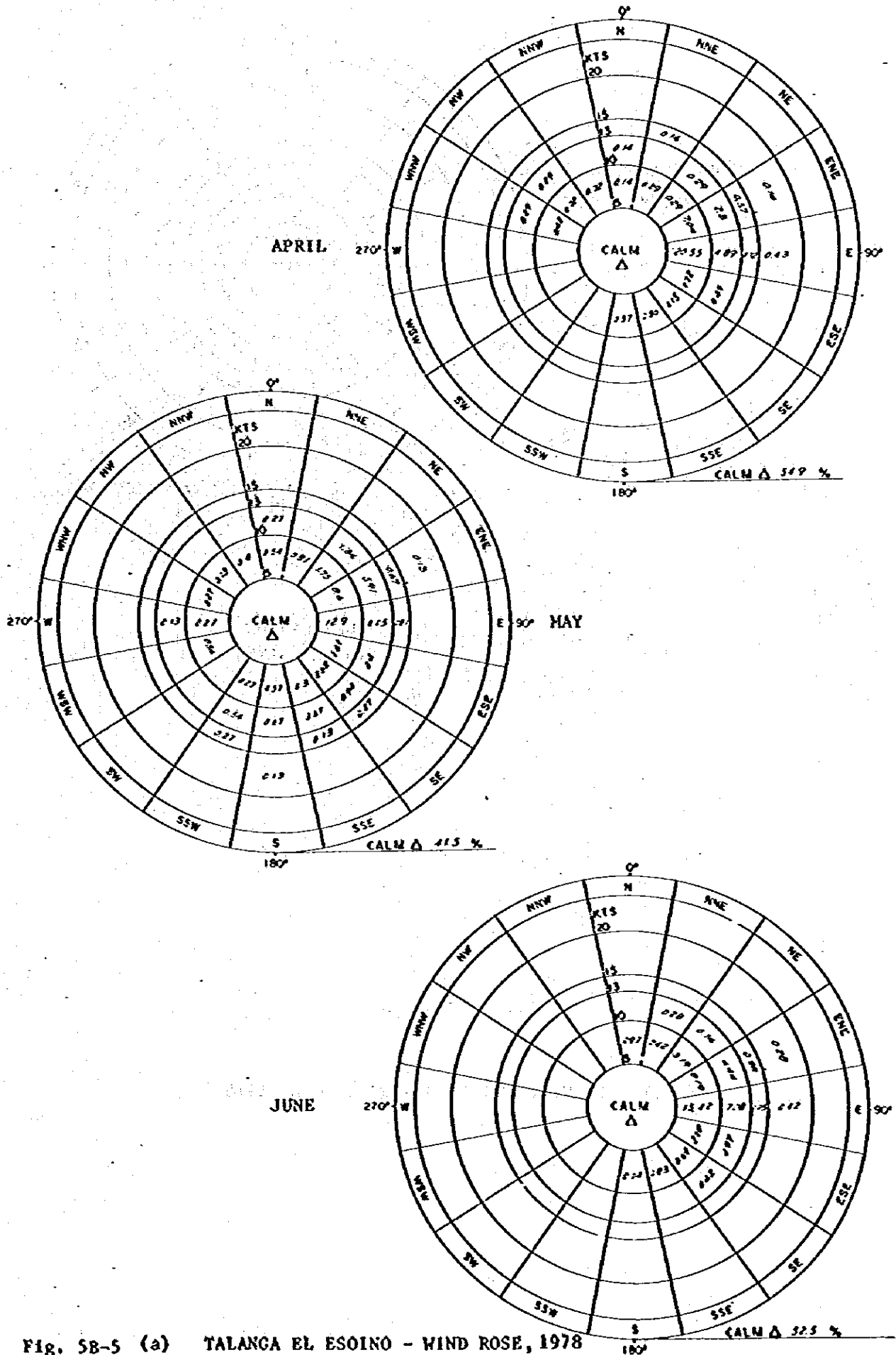
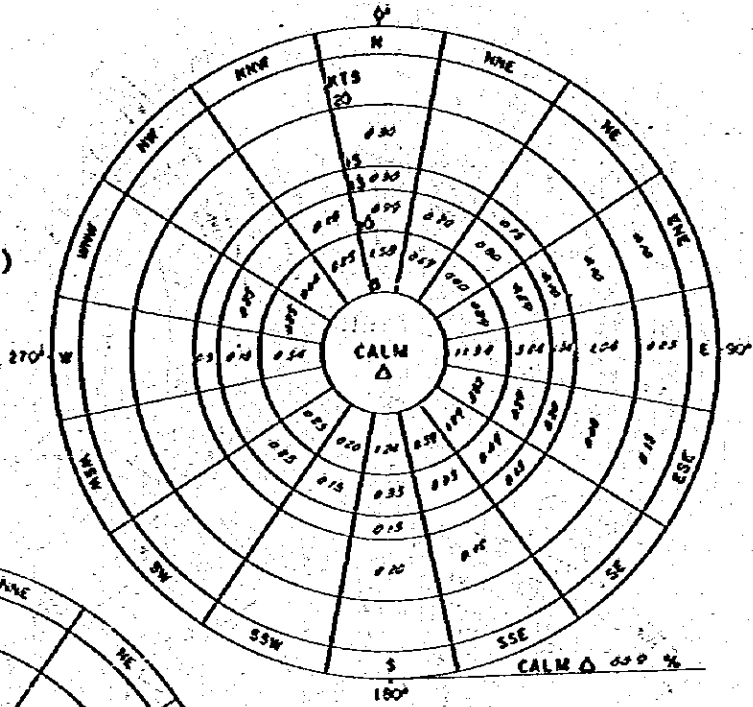


Fig. 5B-5 (a) TALANGA EL ESINO - WIND ROSE, 1978

DRY SEASON
(MAR. APR. MAY ONLY)



WET SEASON
(JUNE ONLY)

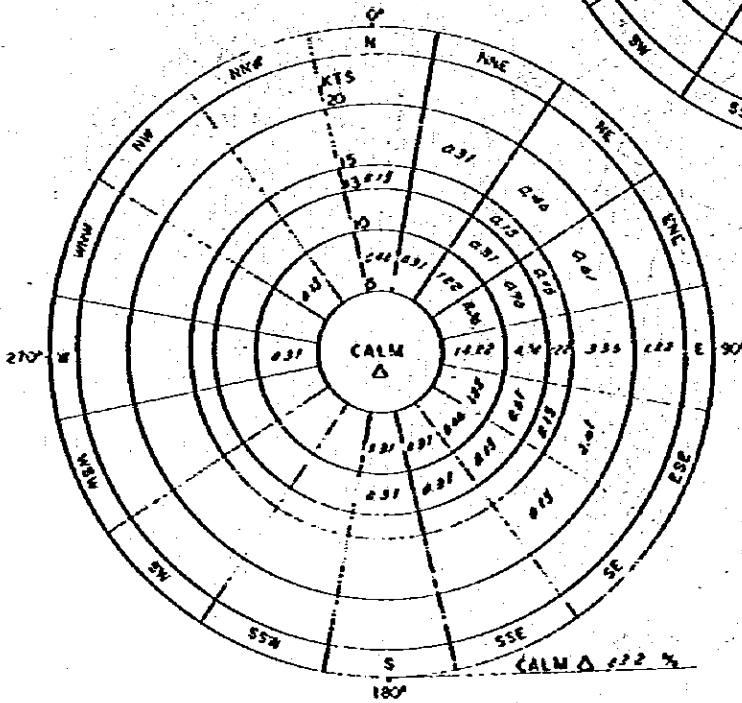


Fig. 5B-6 (6) TALANGA LA ERMITA - WIND ROSE, 1978

STATION: **TONCONTIN** 12 MONTHS YEAR: 1976

CEILING (meter)	VISIBILITY (meter)	100 or less	12 MONTHS												YEAR: 1976										
			100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600-2,000	2,000-3,000	3,000-5,000	6,000 or more	TOTAL	%		
Unknown																									
50 or less																									
50 - 100																									
100 - 200																									
200 - 300																									
300 - 600																									
600 - 1,000																									
1,000 - 1,500																									
1,500 - 2,000																									
2,000 - 2,500																									
2,500 or more																									
Cloud layer 4.8 or less																									
TOTAL																									
%																									

STATION: **TONCONTIN** DRY SEASON, (DEC - MAY) YEAR: 1976

CEILING (meter)	VISIBILITY (meter)	100 or less	12 MONTHS												YEAR: 1976											
			100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600-2,000	2,000-3,000	3,000-5,000	6,000 or more	TOTAL	%			
Unknown																										
50 or less																										
50 - 100																										
100 - 200																										
200 - 300																										
300 - 600																										
600 - 1,000																										
1,000 - 1,500																										
1,500 - 2,000																										
2,000 - 2,500																										
2,500 or more																										
Cloud layer 4.8 or less																										
TOTAL																										
%																										

STATION: **TONCONTIN** WET SEASON, (JUN - NOV) YEAR: 1976

CEILING (meter)	VISIBILITY (meter)	100 or less	12 MONTHS												YEAR: 1976											
			100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600-2,000	2,000-3,000	3,000-5,000	6,000 or more	TOTAL	%			
Unknown																										
50 or less																										
50 - 100																										
100 - 200																										
200 - 300																										
300 - 600																										
600 - 1,000																										
1,000 - 1,500																										
1,500 - 2,000																										
2,000 - 2,500																										
2,500 or more																										
Cloud layer 4.8 or less																										
TOTAL																										
%																										

Table 5B-2 (a) TONCONTIN-CEILING/VISIBILITY 1976

STATION: TONCONTIN-DAYTIME 12 MONTHS YEAR: 1976

CEILING (feet)	VISIBILITY (feet)	100 or less	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600-2,000	2,000-3,000	3,000-5,000	5,000 or more	TOTAL	%	
			Unknown																					
50 or less																								
50 ~ 100													6					3	1	4	21	35	124	
100 ~ 200										1		2						7	8	17	110	145	305	
200 ~ 300												5						4	17	23	136	195	1264	
300 ~ 600												1						1	3	6	230	249	313	
600 ~ 1,000							1					4						1	7	14	18	334	1079	2509
1,000 ~ 1,500																				3	8	319	610	1292
1,500 ~ 2,000																								
2,000 ~ 2,500																								
2,500 or more																							5	5.011
Cloud layer 4/8 or less							1											1	3	7	228	1330	2132	
TOTAL							2			1		10						1	23	49	83	451	4158	
%							0.04			0.02		0.39						0.02	0.43	0.63	1.24	2.72		1

STATION: TONCONTIN-DAYTIME DRY SEASON, (DEC - MAY) YEAR: 1976

CEILING (feet)	VISIBILITY (feet)	100 or less	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600-2,000	2,000-3,000	3,000-5,000	5,000 or more	TOTAL	%		
			Unknown																						
50 or less																									
50 ~ 100																									
100 ~ 200																				1	1	3	27	32	135
200 ~ 300																				1	6	5	178	194	815
300 ~ 600												1								1	2	1	115	120	324
600 ~ 1,000							1					2								3	9	13	231	259	310
1,000 ~ 1,500																					1	4	104	209	115
1,500 ~ 2,000																									
2,000 ~ 2,500																									
2,500 or more																							5	5.021	
Cloud layer 4/8 or less							1													1	3	4	169	180	419
TOTAL							2					7								7	22	36	237	2379	
%							0.08					0.29								0.29	0.92	1.33	9.26	1	

STATION: TONCONTIN-DAYTIME WET SEASON, (JUN - NOV) YEAR: 1976

CEILING (feet)	VISIBILITY (feet)	100 or less	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600-2,000	2,000-3,000	3,000-5,000	5,000 or more	TOTAL	%	
			Unknown																					
50 or less																								
50 ~ 100																								
100 ~ 200																								
200 ~ 300																								
300 ~ 600																								
600 ~ 1,000																								
1,000 ~ 1,500																								
1,500 ~ 2,000																								
2,000 ~ 2,500																								
2,500 or more																								
Cloud layer 4/8 or less																								
TOTAL											1													
%											0.04													

Table 5B-2 (a) TONCONTIN-DAYTIME CEILING/VISIBILITY 1976

STATION: HULE 12 MONTHS YEAR: 1962, 1963

CEILING (feet)	VISIBILITY (feet)	100 or less	12 MONTHS													TOTAL	%							
			100	200	300	400	500	600	700	800	900	1,000	1,200	1,300	1,400			1,500	1,600-2,000	2,000-3,000	3,000-5,000	6,000 or more		
Unknown		4			1	1											1		7	13	22			
50 or less		220		1	17					12							69	3	89	160	621	27		
50 - 100		9		2	1	1				3				1			2	1	12	19	51	26		
100 - 200		34		2		18				4					2		41	1	24	345	332	69		
200 - 300		35		1	1	23				1					3		1	18	37	227	349	43		
300 - 600		4				9												3	10	165	192	24		
600 - 1,000		33				20				3									27	54	277	2315	237	
1,000 - 1,500		6				6													2	12	920	934	118	
1,500 - 2,000																					1	1	-	
2,000 - 2,500		1																			21	22	23	
2,500 or more		8				2				1										5	3	69	69	11
Cloud layer 4.8 or less		4				2				4	2	3	1						1	6	37	200	2305	300
TOTAL		376		6	1	107	1			28	2	4	1	1		2	2	126	3	212	672	2,363		
%		49		01	-	28	-			04	-	01	-	01		-	-	22	01	54	85	1		

STATION: HULE DRY SEASON, (DEC - MAY) YEAR: 1962, 1963

CEILING (feet)	VISIBILITY (feet)	100 or less	DRY SEASON, (DEC - MAY)													TOTAL	%							
			100	200	300	400	500	600	700	800	900	1,000	1,200	1,300	1,400			1,500	1,600-2,000	2,000-3,000	3,000-5,000	6,000 or more		
Unknown				3		1													1		4	3	22	
50 or less		39		1		19				1									16	3	33	165	43	
50 - 100		3								2				1					2	1	3	12	26	27
100 - 200		13		2		12				2									10	1	16	123	179	48
200 - 300		2		1		8													1		2	60	77	21
300 - 600						7													1		4	81	97	27
600 - 1,000		1				6													6		25	132	170	181
1,000 - 1,500		2				2													1		1	21	300	27
1,500 - 2,000																							0	
2,000 - 2,500																							0	
2,500 or more		6								1									3			31	47	13
Cloud layer 4.8 or less		3				2				2									1		4	225	247	559
TOTAL		61		4		65				8									12	2	63	337	355	
%		25		01		23				08									11	01	16	20		

STATION: HULE WET SEASON, (JUN - NOV) YEAR: 1962

CEILING (feet)	VISIBILITY (feet)	100 or less	WET SEASON, (JUN - NOV)													TOTAL	%								
			100	200	300	400	500	600	700	800	900	1,000	1,200	1,300	1,400			1,500	1,600-2,000	2,000-3,000	3,000-5,000	6,000 or more			
Unknown		4																			3	7	08		
50 or less		159				31				11									53	3	34	125	132	134	
50 - 100		4		2		1	1			1											9	7	25	26	
100 - 200		21				34				2									2		31	50	223	312	23
200 - 300		33			1	15				1									1	17	33	169	272	62	
300 - 600		4				2															6	79	93	21	
600 - 1,000		24				14				3			1								21	29	145	164	327
1,000 - 1,500		4				4															1	11	574	394	136
1,500 - 2,000																						1	1	-	
2,000 - 2,500		1																				21	22	23	
2,500 or more		2				2															2	3	32	41	29
Cloud layer 4.8 or less		1								2	2	3	1						1	7	27	774	838	120	
TOTAL		333		2	1	135	1			20	2	4	1						2	134	3	272	3313	4317	
%		78		-	-	24	-			23	-	01	-						-	-	21	01	49	80	

Table 5B-4 HULE-CEILING/VISIBILITY 1962 - 1963

STATION: LA ERMITA		MARCH																YEAR: 1978									
CEILING (feet)	VISIBILITY Less than 1000 ft or less	1	2	4	6	8	10	12	14	16	20	24	28	32	36	40	48	64	80	90	112	160	250 or more	TOTAL	%		
		50 or less																									
100																											
200																											
300																											
400																											
500																											
600																											
700																											
800																											
900																											
1000																											
1100																											
1200																											
1300 ~ 1500																											
1600 ~ 2000																											
2100 ~ 3000																											
3100 ~ 5000																											
5100 ~ 10000																											
10,000 or more																											
Cloud layer 5/8 or more																											
Cloud layer 4/8 or less																											
TOTAL																											
%																											

STATION: LA ERMITA		APRIL																YEAR: 1978									
CEILING (feet)	VISIBILITY Less than 1000 ft or less	1	2	4	6	8	10	12	14	16	20	24	28	32	36	40	48	64	80	90	112	160	250 or more	TOTAL	%		
		50 or less																									
100																											
200																											
300																											
400																											
500																											
600																											
700																											
800																											
900																											
1000																											
1100																											
1200																											
1300 ~ 1500																											
1600 ~ 2000																											
2100 ~ 3000																											
3100 ~ 5000																											
5100 ~ 10000																											
10,000 or more																											
Cloud layer 5/8 or more																											
Cloud layer 4/8 or less																											
TOTAL																											
%																											

STATION: LA ERMITA		MAY																YEAR: 1978									
CEILING (feet)	VISIBILITY Less than 1000 ft or less	1	2	4	6	8	10	12	14	16	20	24	28	32	36	40	48	64	80	90	112	160	250 or more	TOTAL	%		
		50 or less																									
100																											
200																											
300																											
400																											
500																											
600																											
700																											
800																											
900																											
1000																											
1100																											
1200																											
1300 ~ 1500																											
1600 ~ 2000																											
2100 ~ 3000																											
3100 ~ 5000																											
5100 ~ 10000																											
10,000 or more																											
Cloud layer 5/8 or more																											
Cloud layer 4/8 or less																											
TOTAL																											
%																											

Table 5B-5 (a) TALANCA LA ERMITA-CEILING/VISIBILITY 1978

STATION : LA ERMITA

JUNE

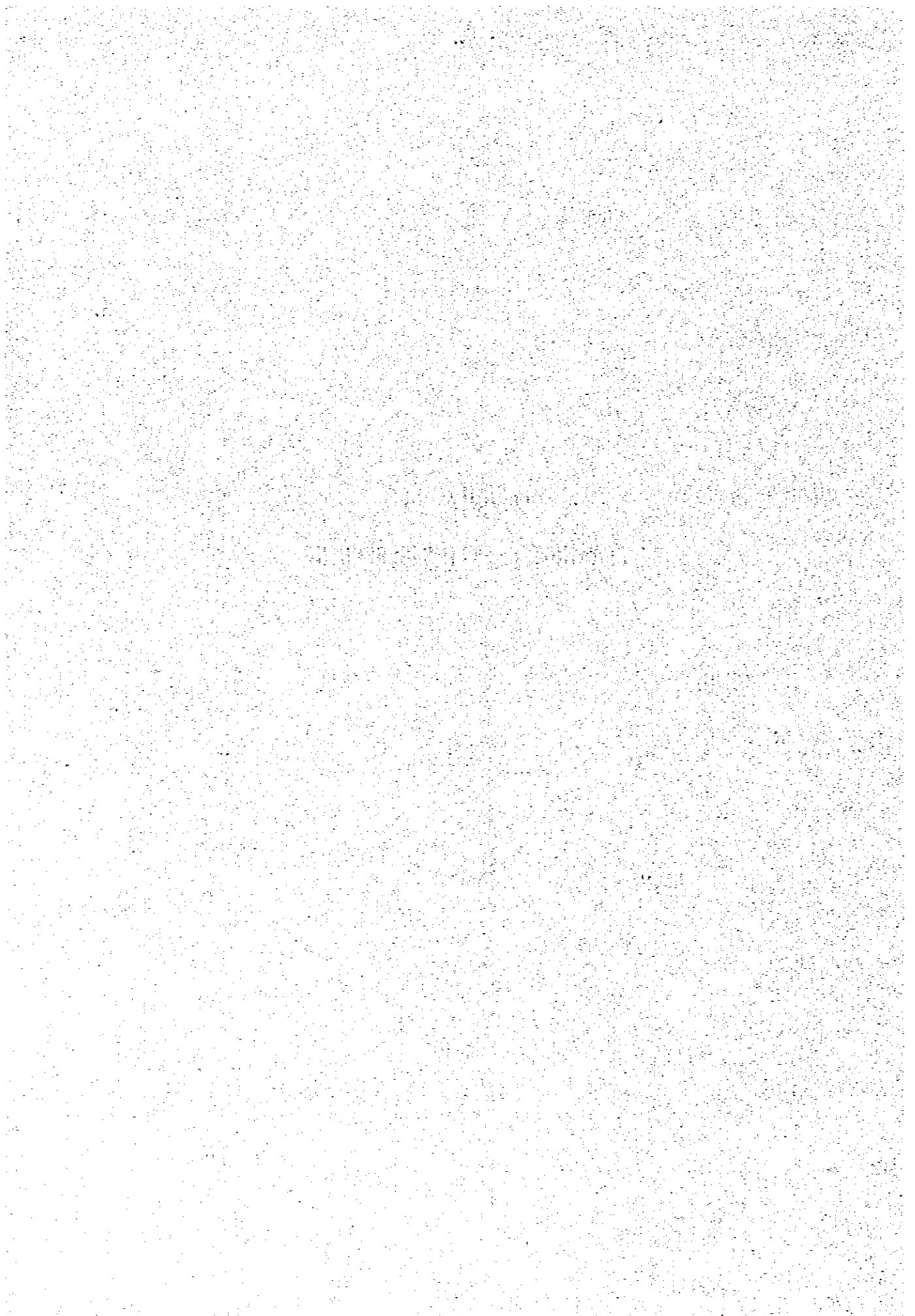
YEAR: 1978

CEILING (feet)		VISIBILITY (miles)												TOTAL				%											
		1/4	1/2	3/4	1	2	3	4	5	6	7	8	9	10	15	20	25		30	40	50	60	70	80	90	100	250 or more		
Cloud layer 3/8 or more	50 or less																												
	100																												
	200																												
	300																												
	400																												
	500																												
	600																												
	700																												
	800																												
	900																												
	1,000																												
	1,100																												
	1,200																												
	1,300 ~ 1,500																												
	1,500 ~ 2,000					/																							
2,100 ~ 3,000																													
3,100 ~ 5,000																													
5,100 ~ 10,000																													
10,000 or more																													
Cloud layer 4/8 or less																													
TOTAL																													
%																													

Table 5B-5(b) TALANGA · LA ERMITA-CEILING/VISIBILITY 1978

APPENDIX 5C

DRAWINGS OF SITES SCREENING



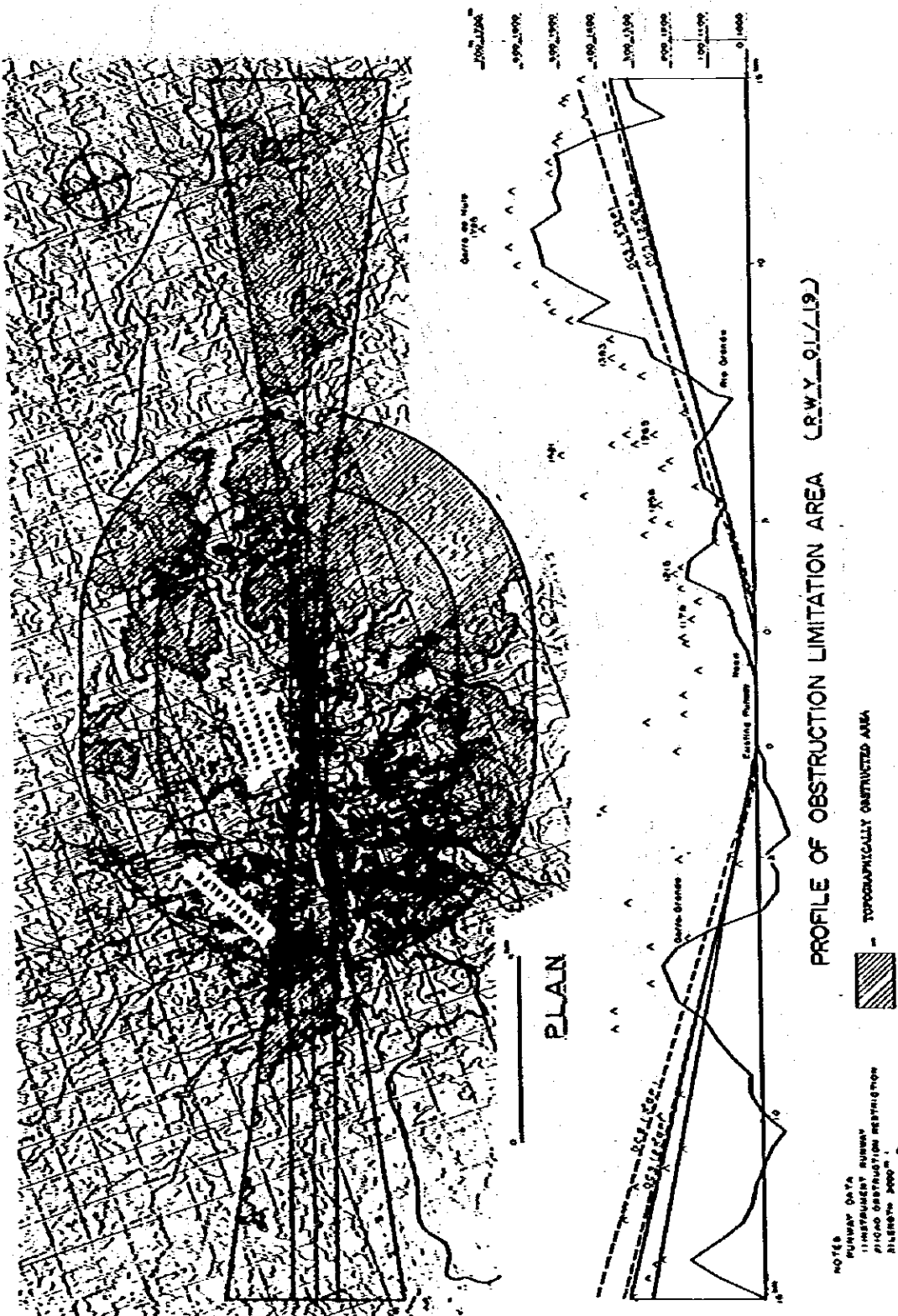


Fig. 5C-1 (a) EXISTING TONCONTIN AIRPORT:
 R.W.Y. (01/19) EXTENSION & OBSTACLES

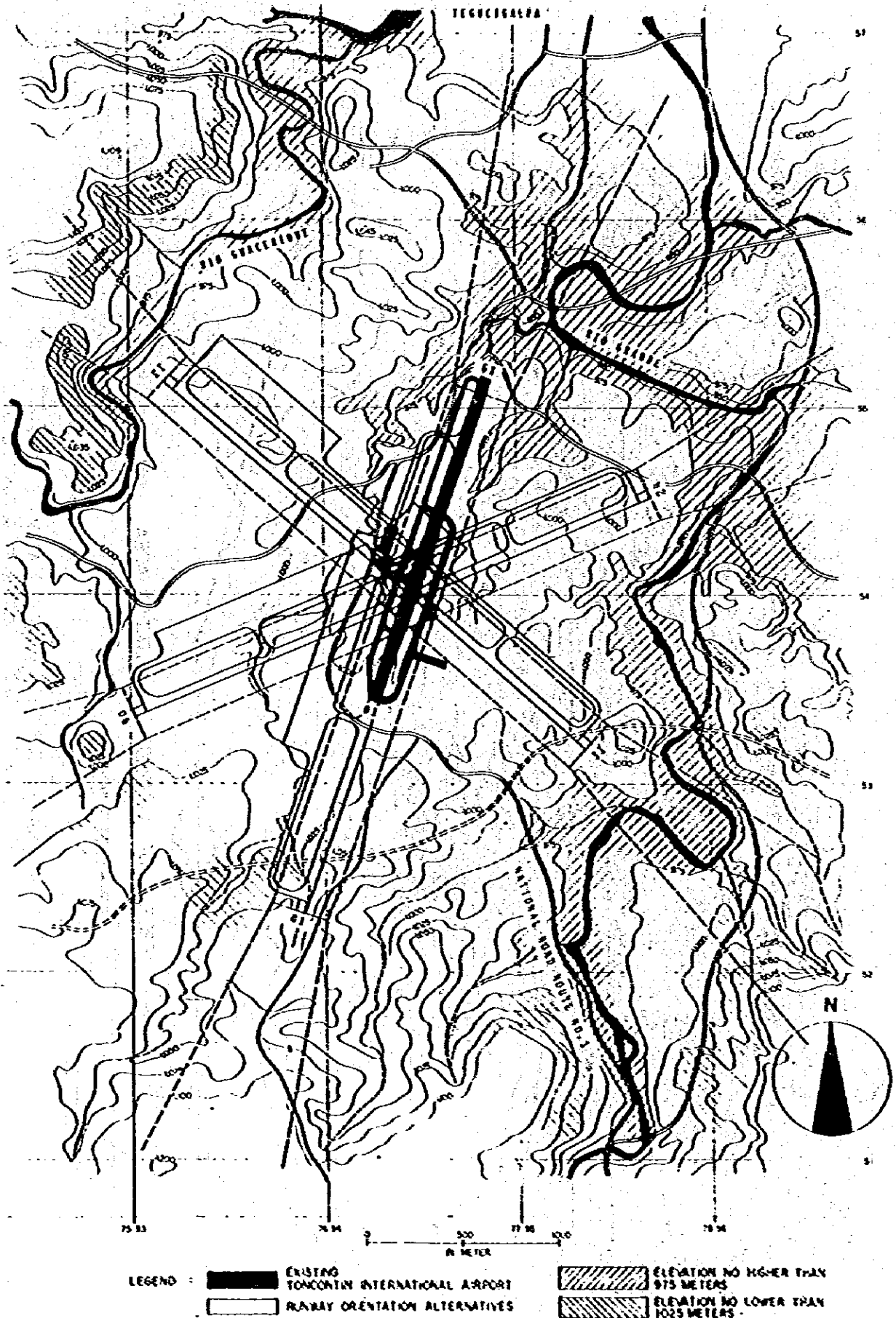
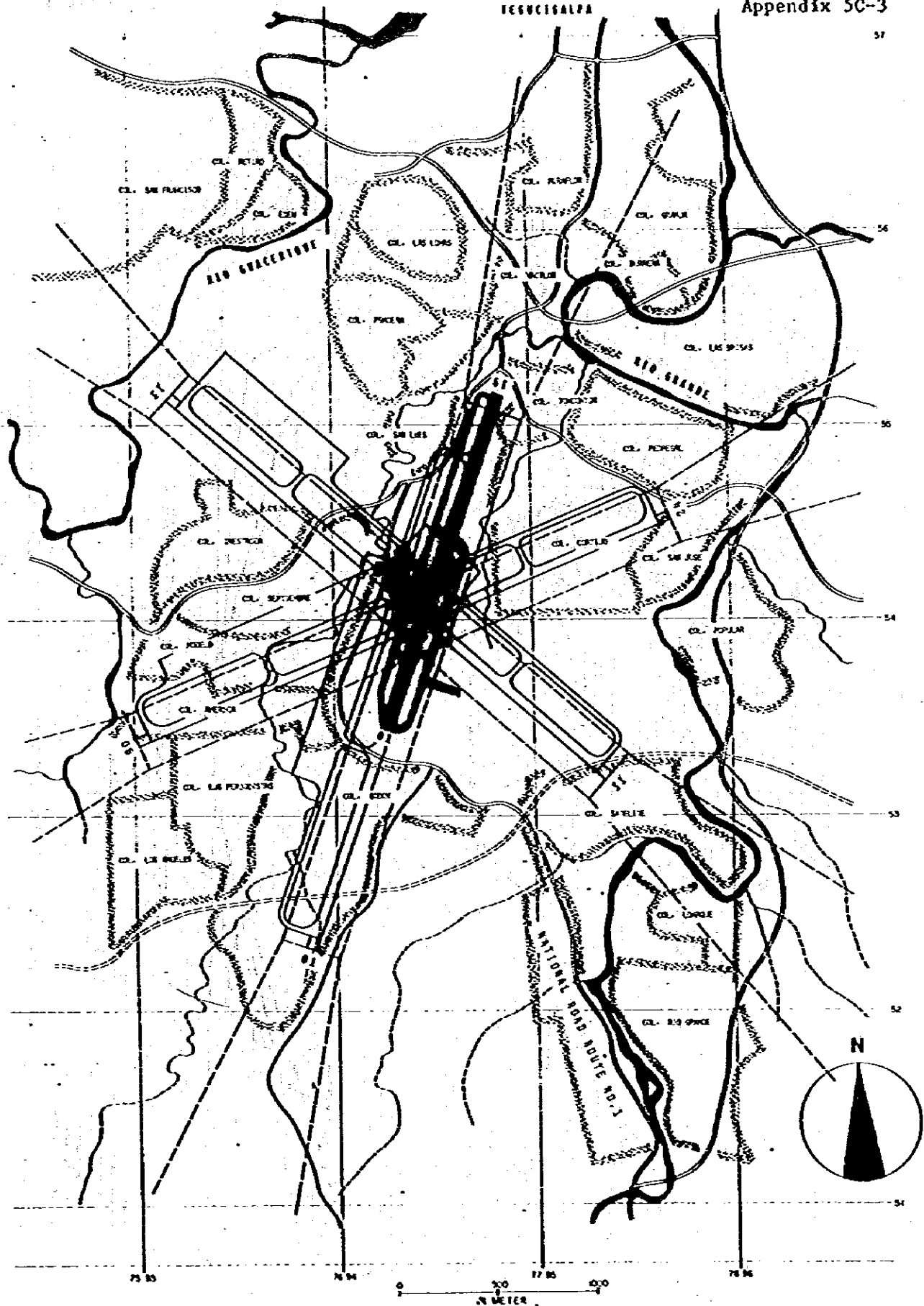


Fig. 5C-1 (b) TOPOGRAPHICALLY FEASIBLE ORIENTATION ALTERNATIVES OF RUNWAY EXTENSION NEEDED IN IMPROVEMENT OF EXISTING TONCONTIN AIRPORT



LEGEND : EXISTING TONCONTIN INTERNATIONAL AIRPORT
 RUNWAY ORIENTATION ALTERNATIVES
 RESIDENTIAL AREA

Fig. 5C-1 (c)

INCOMPATIBILITY WITH SURROUNDING LAND USE OF TOPOGRAPHICALLY FEASIBLE EXPANSION POSSIBILITIES OF EXISTING TONCONTIN AIRPORT

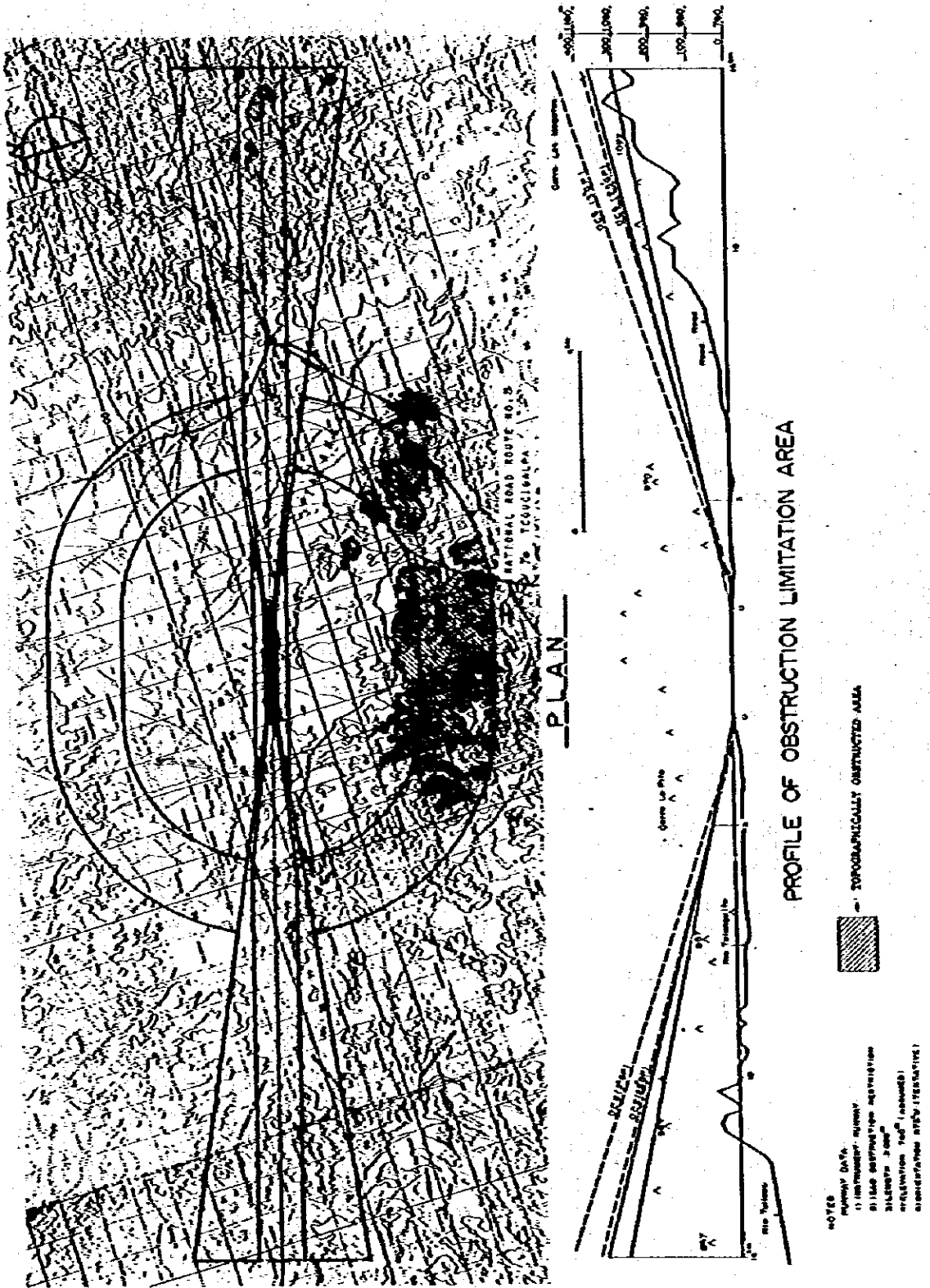


Fig. 5C-2 (b) VALLES DE TALANGA - B : RMY LOCATION & OBSTACLES

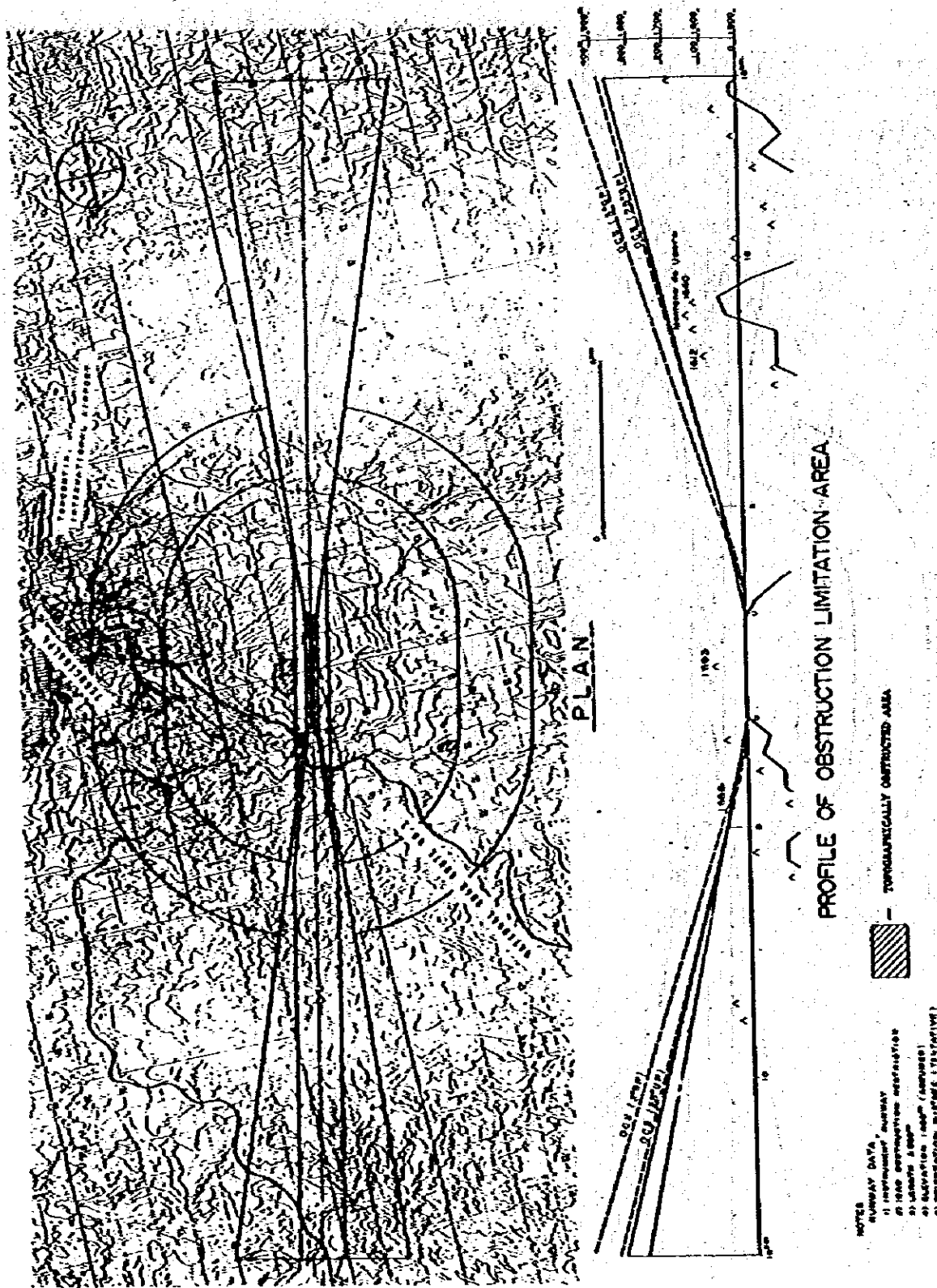


FIG. 5C-3 LAGUNA EL PEDREGAL - B : RWY LOCATION & OBSTACLES

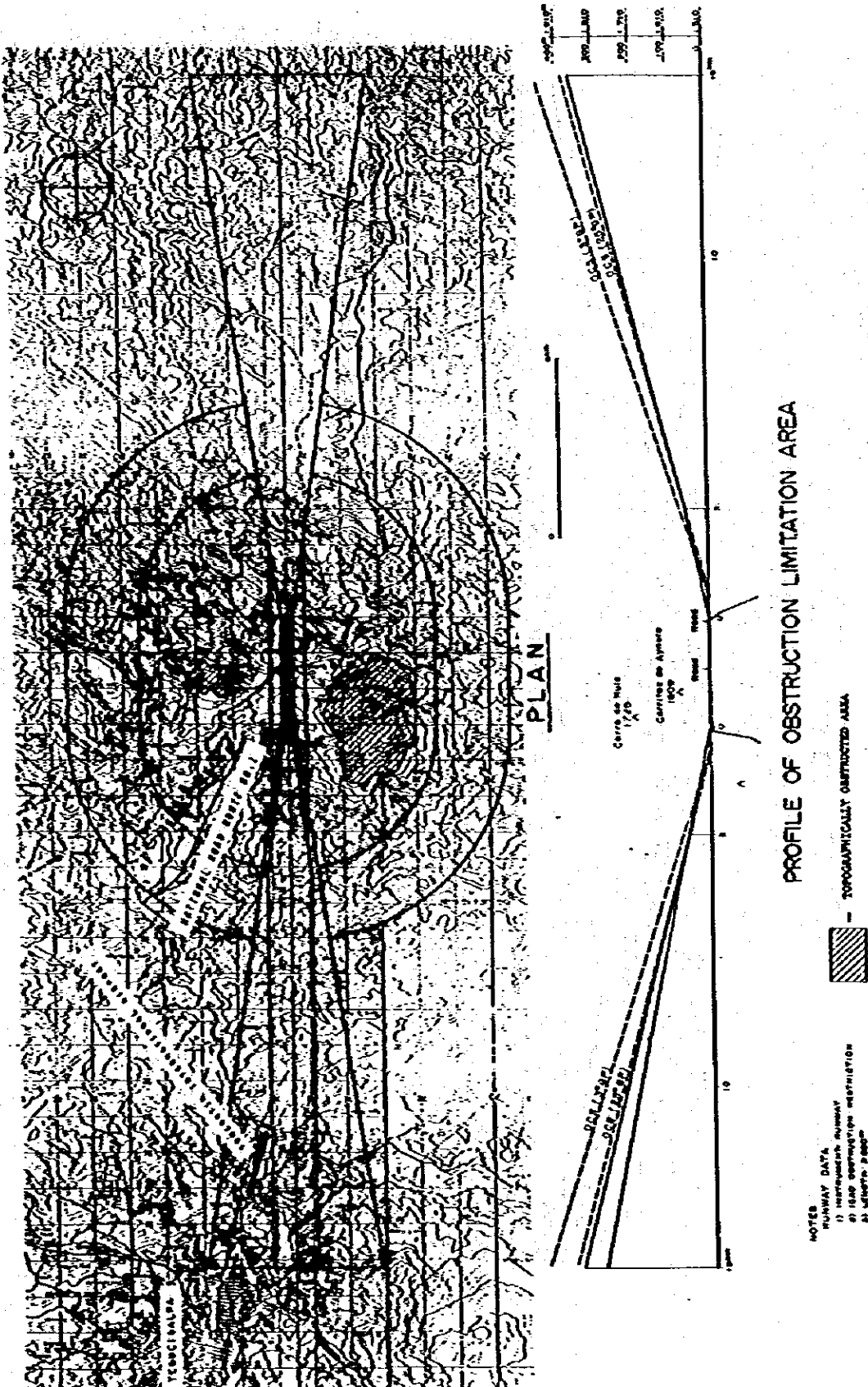
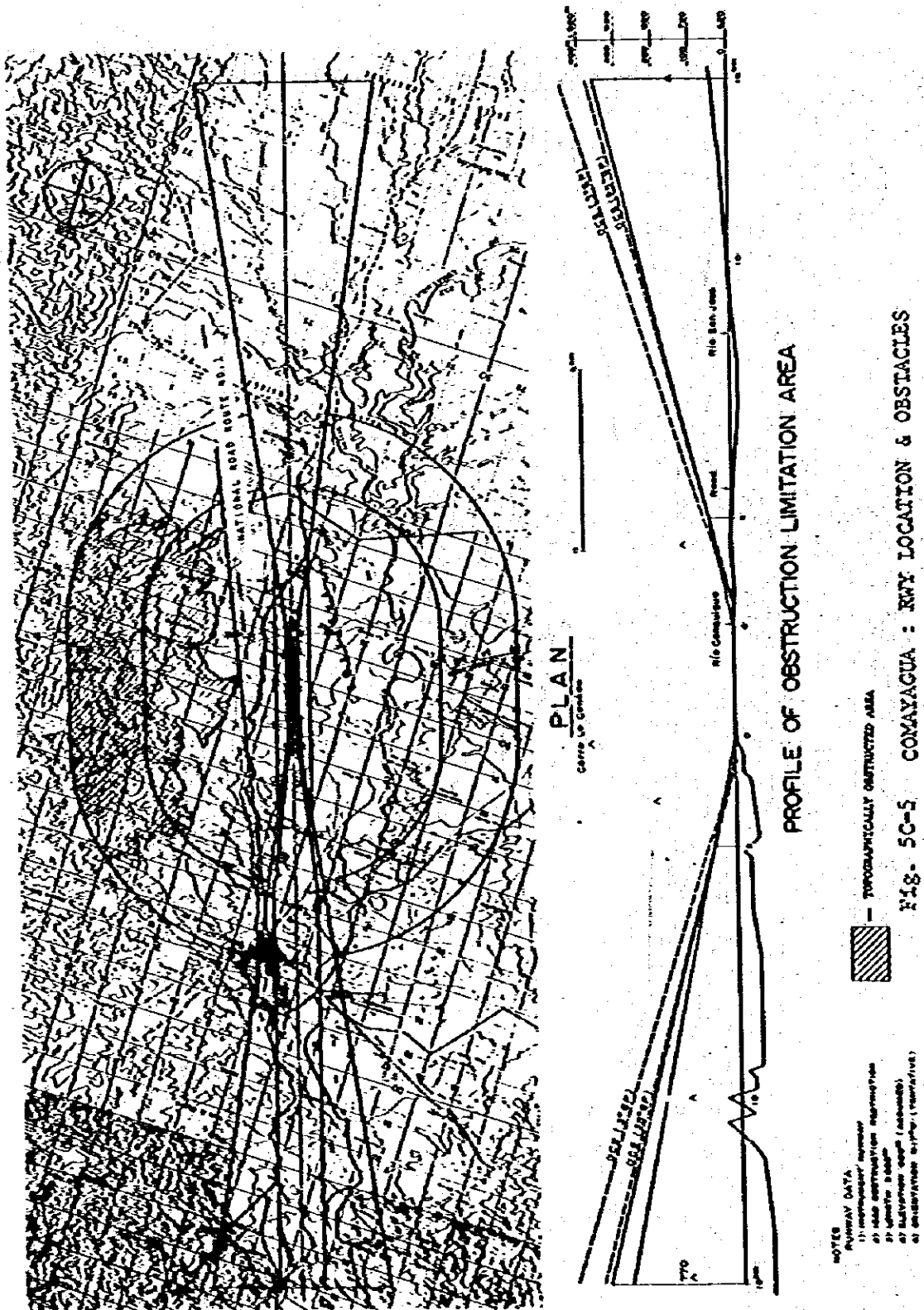
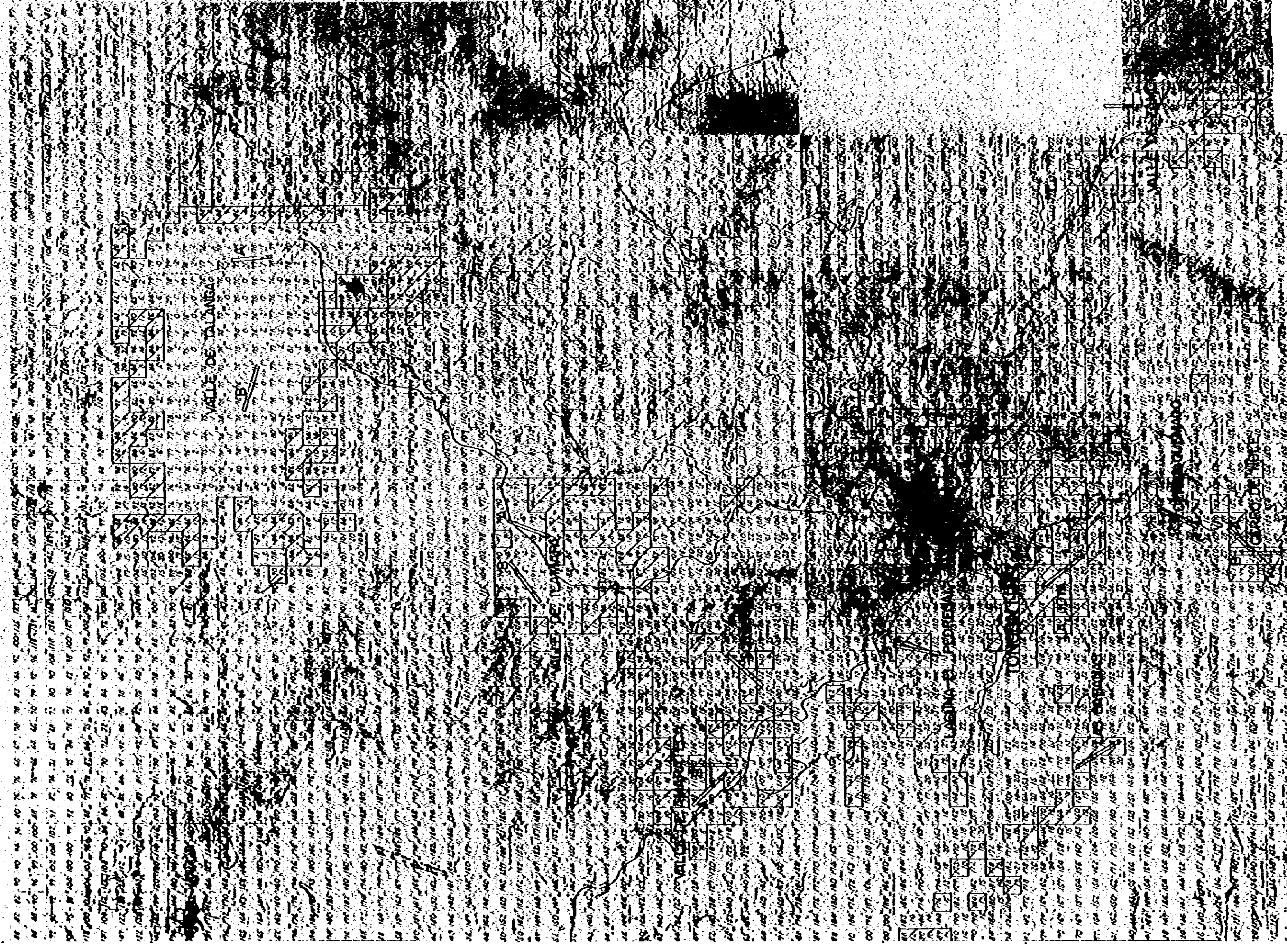


FIG- 5C-4 CERRO DE HULE - B : RWY LOCATION & OBSTACLES



APPENDIX 5D

GRID MAP



Map coordinates and grid labels. Longitude values range from 48 to 52. Latitude values range from 16 to 22. The grid is marked with numbers at regular intervals.

VALLE DE TALANGA

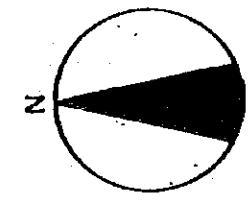
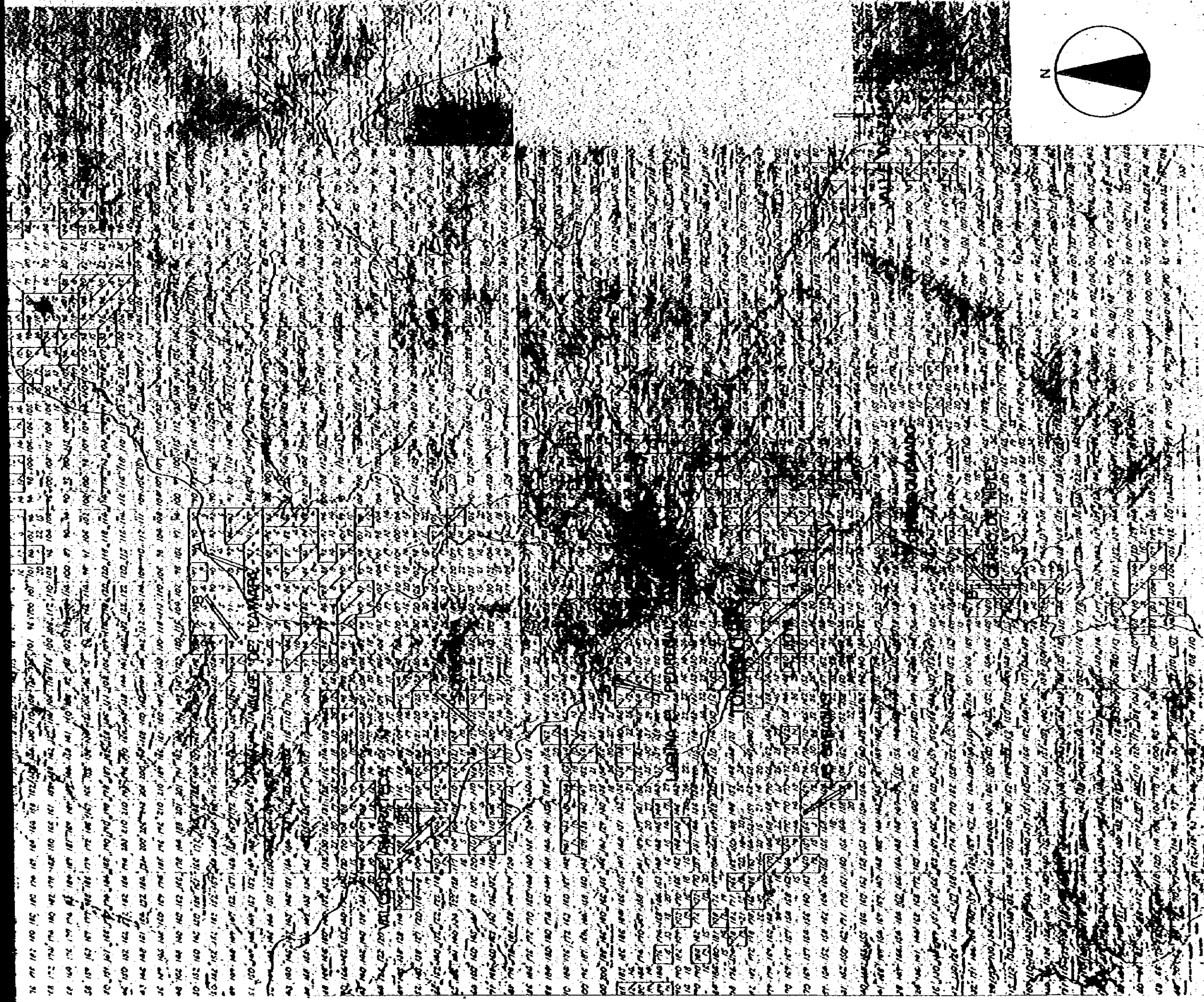
VALLE DE IPIRANGA

VALLE DE PEDREIRA

VALLE DE TANGA

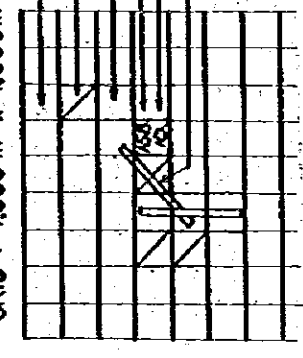
VALLE DE TANGA

VALLE DE TANGA



LEGEND :

GRID : 1,000 m x 1,000m



- MAX ELEVATION RANGE IN GRID 120m AND OVER
- MAX ELEVATION RANGE IN GRID 60m - 120m
- MAX ELEVATION RANGE IN GRID 0m - 60m
- HIGHEST ELEVATION IN GRID 158 (x10) ± 1580m
- MAX ELEVATION RANGE IN GRID 10(x10) ± 100m
- POTENTIAL SITE (RUNWAY LOCATION)

NOTE : COMAYAGUA-SITE IS NOT SHOWN

SCALE : 1 : 200,000

AIRPORT POTENTIAL SITES / EARTHWORK PRACTICABILITY
GRID MAP
NEW TEGUCIGALPA AIRPORT DEVELOPMENT - HONDURAS, C.A.

