



FIGURE 60

THE 1929 HURRICANE: BAY STREET, CENTRAL NASSAU. THE MUNSO STEAMSHIP LINE
ADJACENT TO THE ROYAL BANK OF CANADA.

FIGURE 61

HURRICANES TRACKS IN PROXIMITY TO THE BAHAMAS

<u>YEAR</u>	<u>MONTH</u>
1878	Oct.
1879	Aug.
1881	Aug.
1883	Sept.
1885	Aug.
1893	Aug.
1893	Sept.
1899	Aug.
1899	Oct.
1906	Oct.
1909	Oct.
1919	Sept.
1926	Sept.
1928	Sept.
1929	Sept.
1933	Aug.
1933	Sept.
1935	Aug.
1935	Oct.
1940	Oct.
1945	Sept.
1947	Sept.
1947	Oct.
1948	Oct.
1949	Aug.
1952	Oct.
1953	Aug.
1954	Aug.
1954	Oct.
1958	Oct.
1959	Oct.
1960	Aug.
1961	Oct.
1965	Aug.
1966	July
1966	Sept.
1967	Sept.
1968	Aug.
1969	Aug.
1970	Sept.
1971	Aug.

FIGURE 62

DAMAGE EXPERIENCE

Year	Month	Damage
1878	Oct.	'Many lives lost in marine casualties'.
1881	Aug.	Over 700 lives lost.
(Details from 1881-1928 do not cover Bahamas)		
1926	Sept.	Tide 12.0' at Andros: winds 140 mph.
1933	Aug.	Wind 140 mph at Eleuthera; \$120,000.
1935	Oct.	19 lives lost; \$5,500,000
1960	Aug.	Wind 190 mph, Ragged Island: \$426,000,000
1965	Aug.	Wind 178 mph, Hope Town: \$1,420,500,000.

* Damage refers to Bahamas and SE USA:
dollar damage indicated.

FIGURE 63

HURRICANE TRACKS BY MONTH AS THEY BEGIN TO CROSS LAND

<u>MONTH</u>	<u>NUMBER</u>
July	1
August	15
September	12
October	13

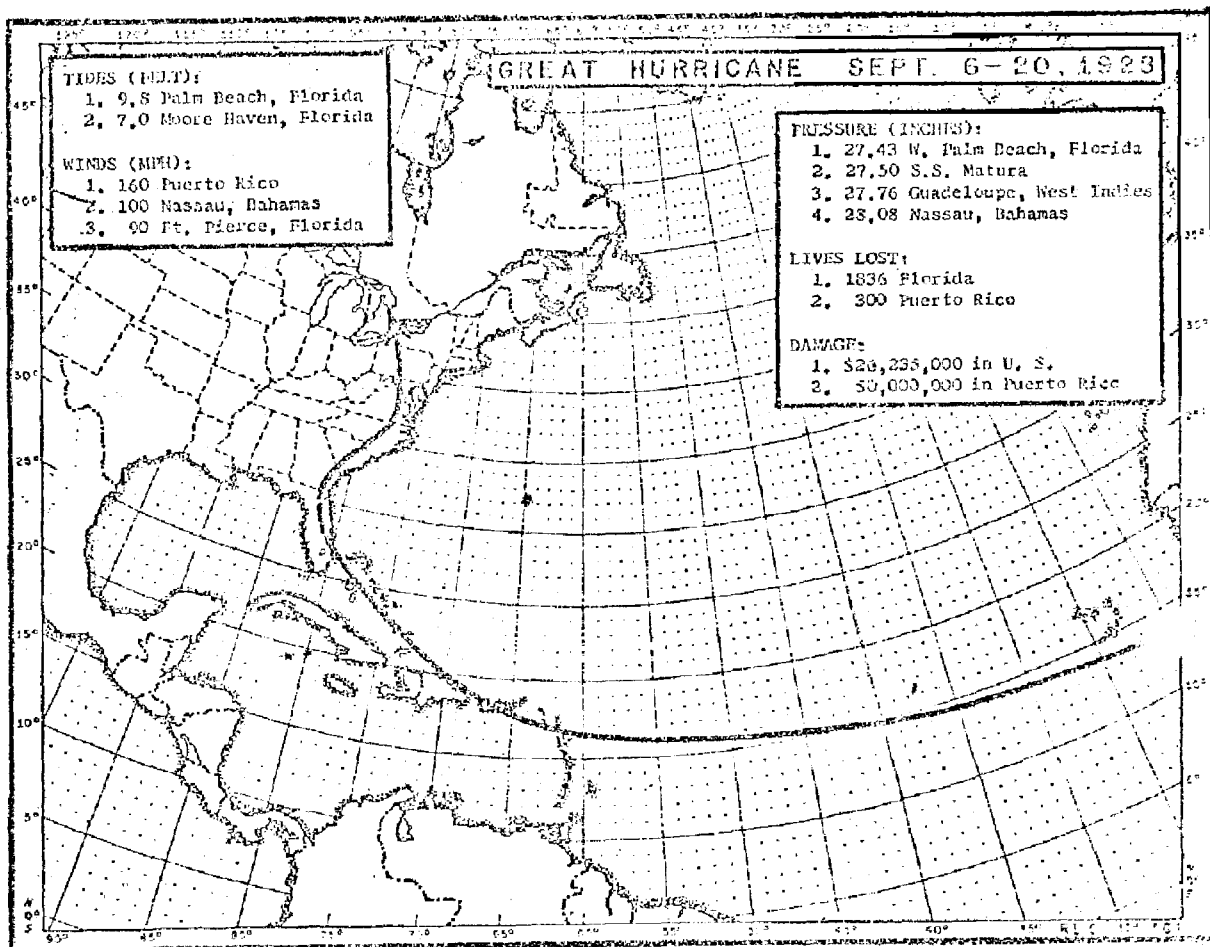


FIGURE 64

A typical hurricane track of Atlantic origin.

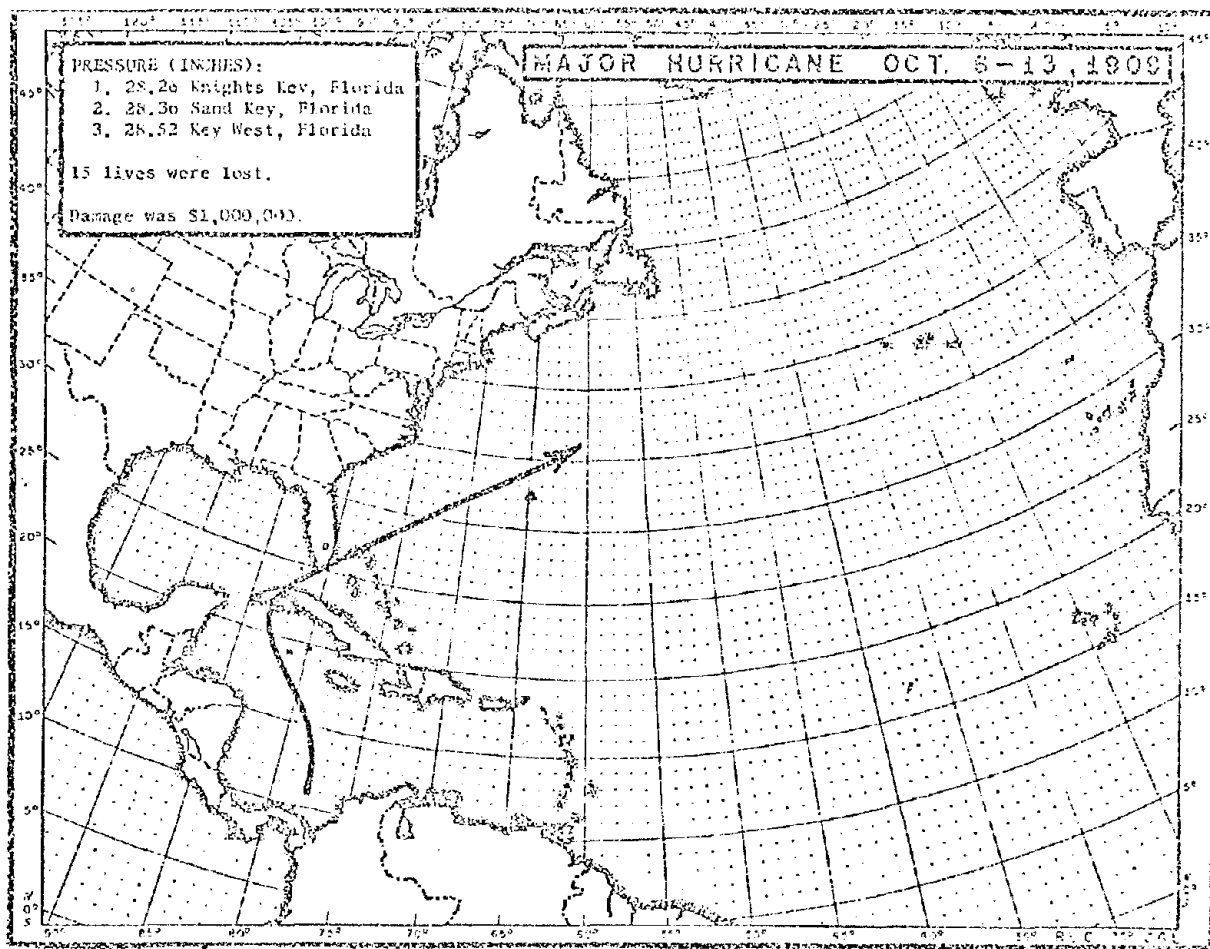


FIGURE 65

A typical hurricane track of Caribbean origin.

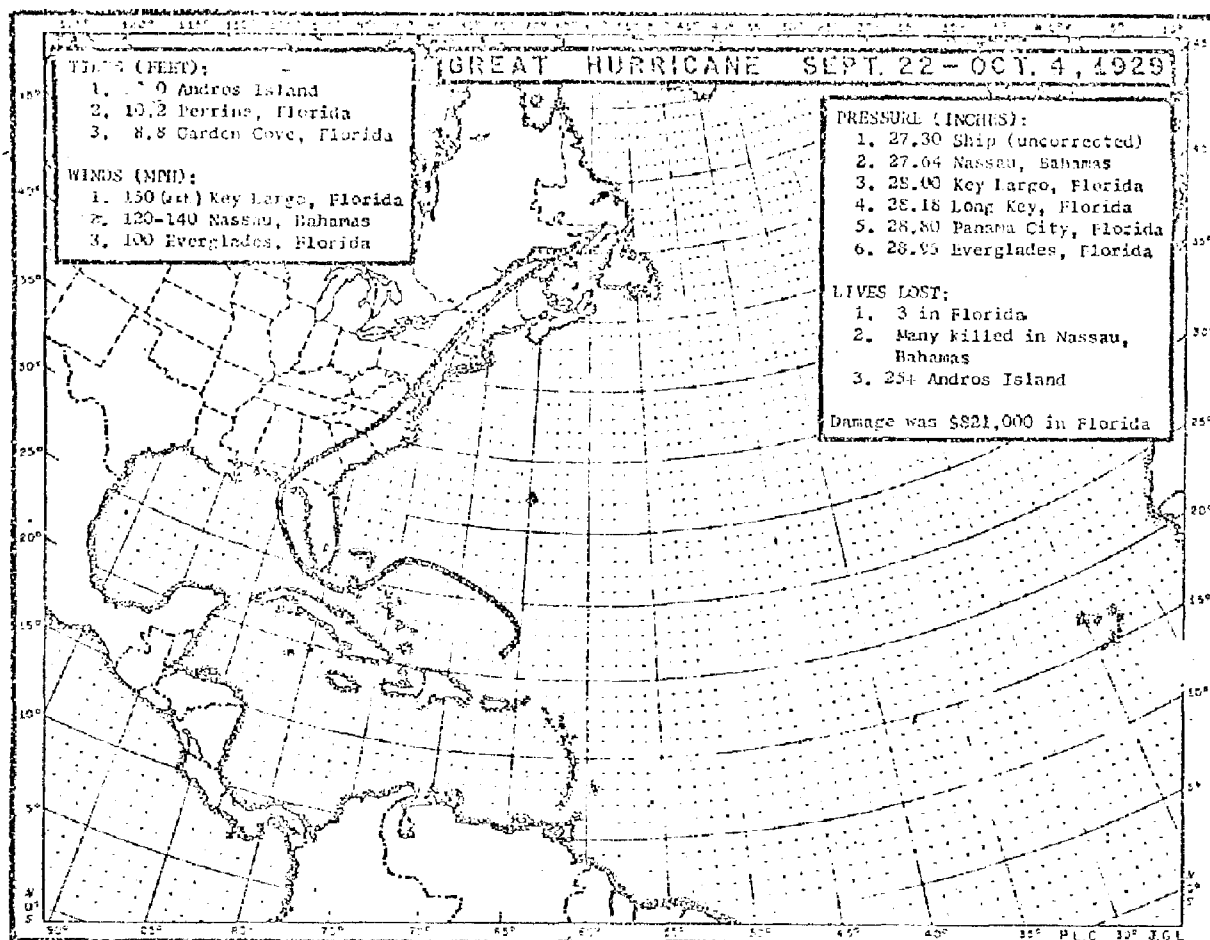


FIGURE 66

THE 1929 HURRICANE

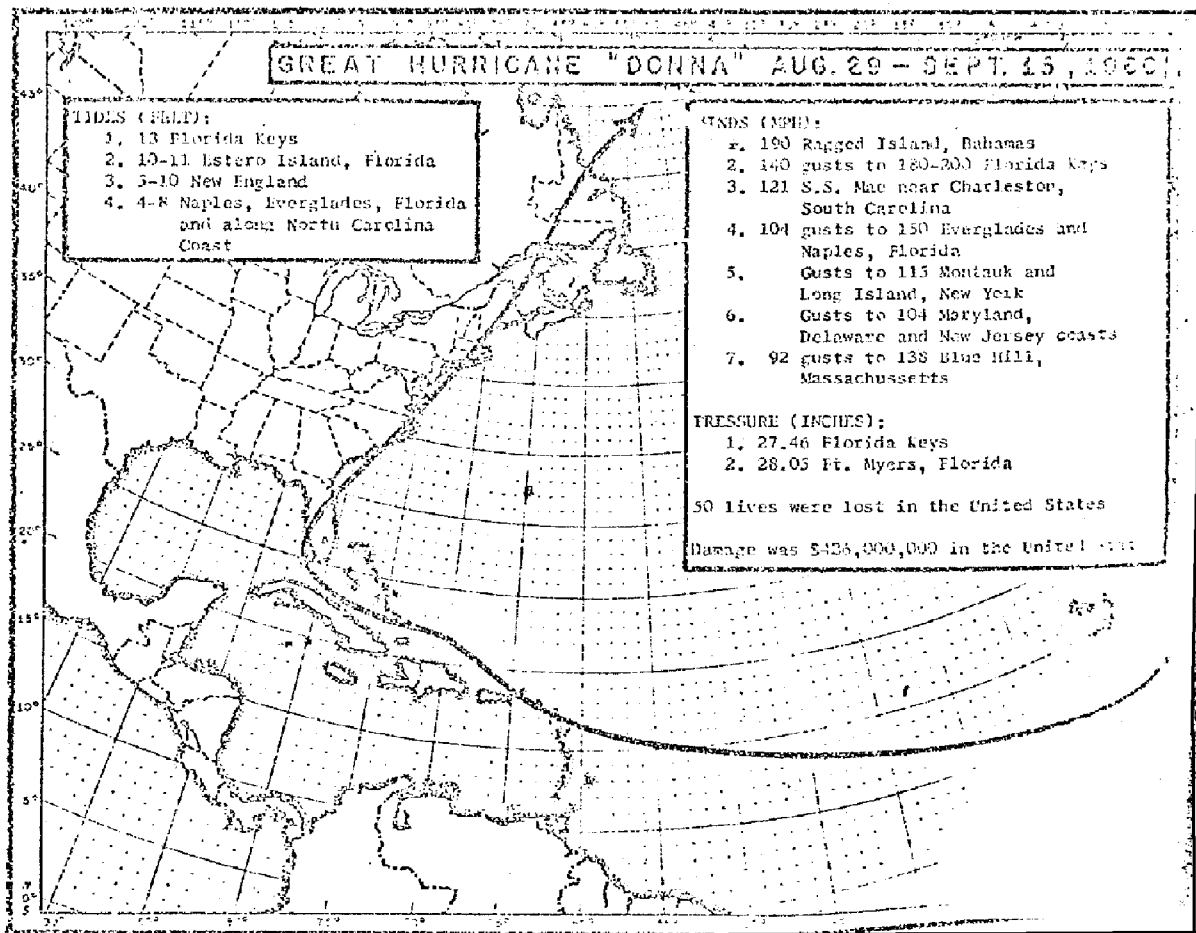


FIGURE 67

HURRICANE DONNA 1960

Affected the Southernmost Islands only.

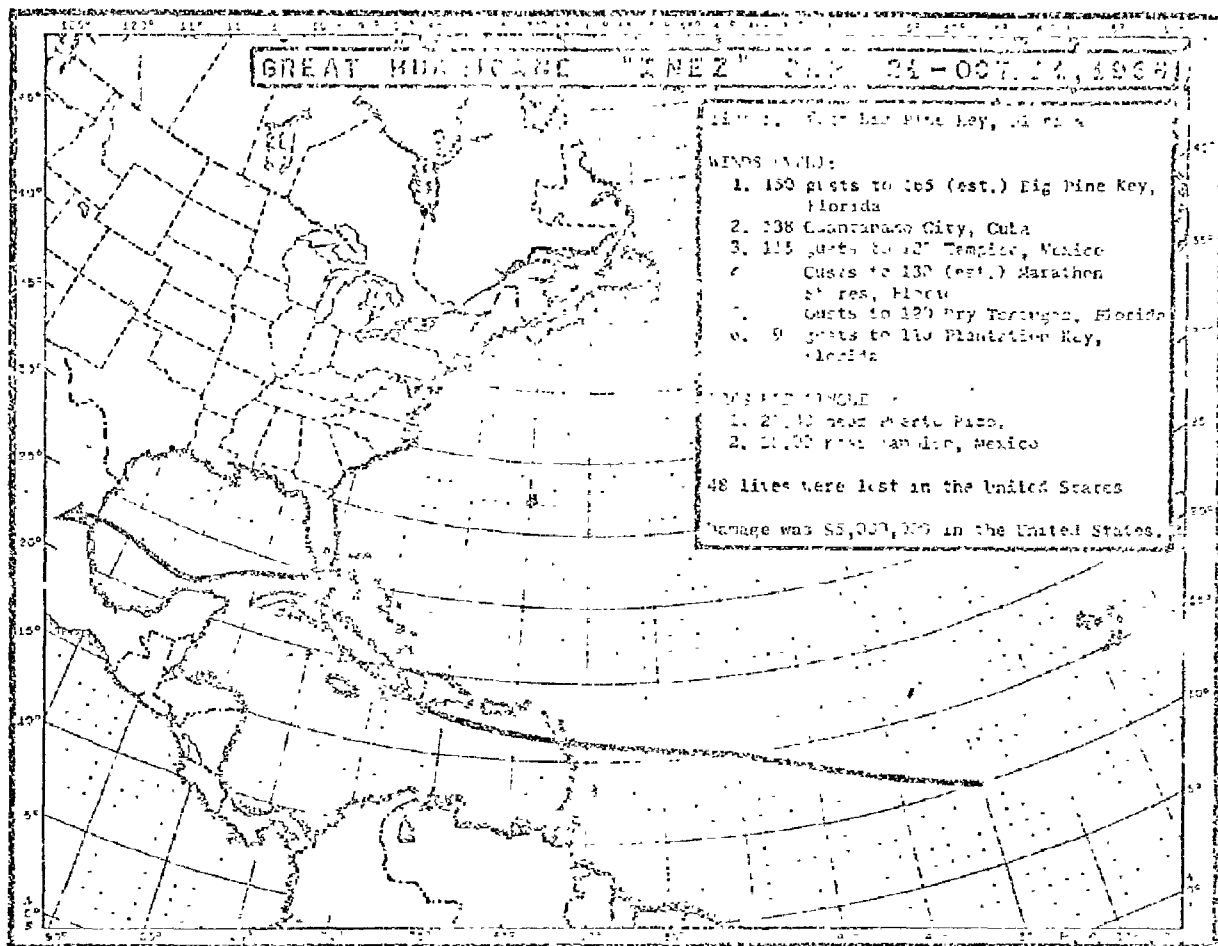


FIGURE 68

HURRICANE INEZ 1966

Affected the North East Islands only.

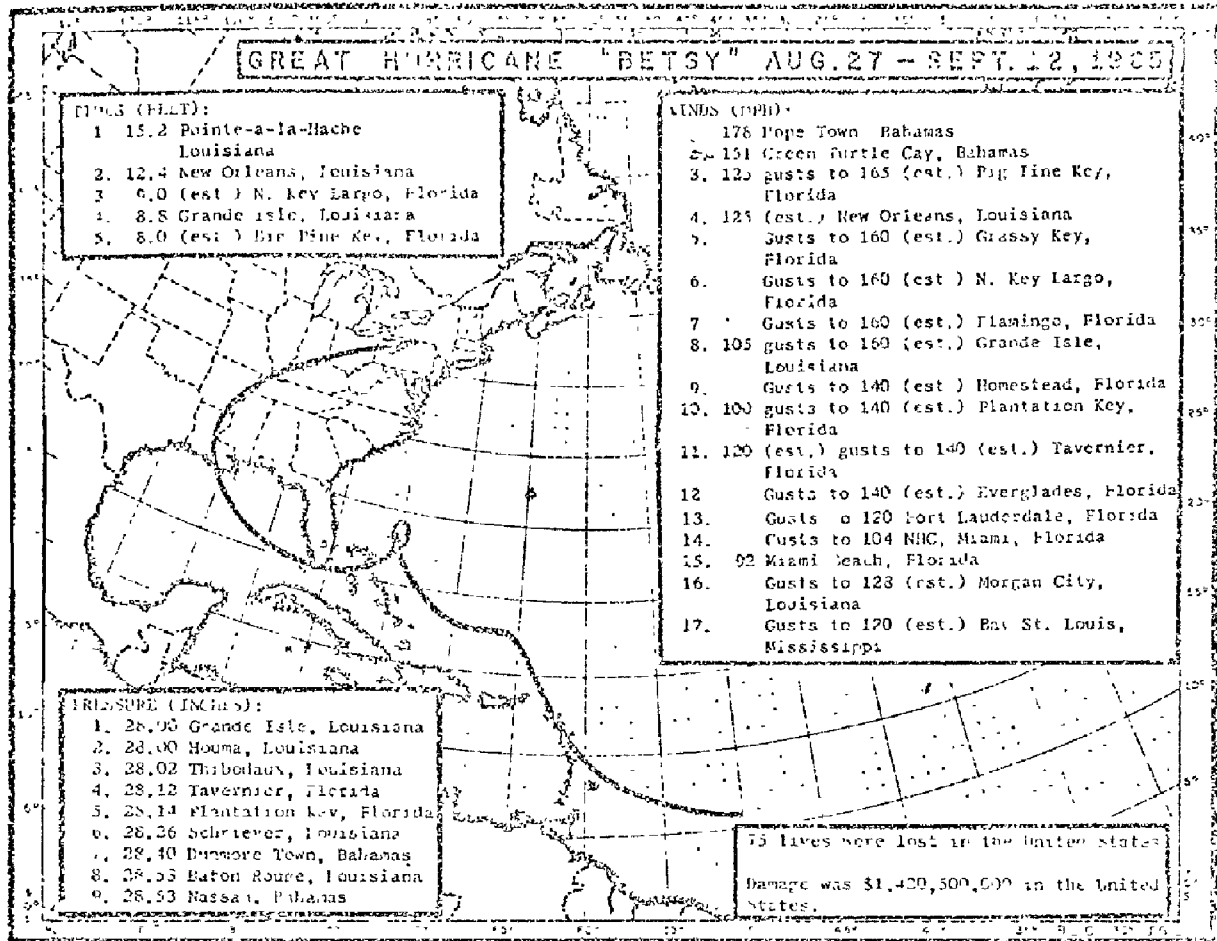


FIGURE 69

HURRICANE BETSY 1965

A capricious turnabout which took the Bahamas by surprise.

FIGURE 70

SQUARE	WESTINGS	NORTHINGS	ISLANDS
NW	75° - 80°	25° - 30°	Bimini Grand Bahama Little and Great Abaco Eleuthera New Providence
SW	75° - 80°	20° - 25°	Andros Cat Island Great Exuma Long Island Great and Little Ragged
SE	70° - 75°	20° - 25°	San Salvador Rum Cay Crooked Acklins Mayaguana Great Inagua

FIGURE 71

AVERAGE MONTHLY STORMS PER MONTH

MONTH	NW	SW	SE	<u>WHOLE ISLAND GROUP</u>
June	0.05	0.03	0.03	0.04
July	0.15	0.05	0.14	0.11
August	0.25	0.23	0.12	0.20
September	0.19	0.21	0.18	0.19
October	0.24	0.19	0.19	0.21
November	0.12	0.14	0.17	0.14
Total Average for Hurricane Season	0.17	0.16	0.12	0.15

FIGURE 72

AVERAGE NUMBER OF STORMS PER SPECIFIED TIME PERIOD (NW)

Month	Date	Average
August	1 - 15	0.17
	16 - 31	0.33
September	1 - 10	0.19
	11 - 20	0.24
	21 - 30	0.14
October	1 - 15	0.33
	16 - 31	0.15

HURRICANE STAGE													
NW							SE						
	DIR	%	SPEED	PROB%	DIR	%	DIR	%	SPEED	PROB%	DIR	%	SPEED
JAN													
FEB													
MAR													
APR													
MAY	N	40	9	1									
	NE	35	4										
	E	25	5										
	NE	100	14	1									
JUN	E	20	4	7	NW	100							
JUL	NW	60	8										
	N	20	13										
	W	10	2	19	W	5							
AUG	NW	40	9		NW	80							
	N	40	7		N	15							
	NW	10	7										
	S	5	6	34	W	40							
SEPT	SW	10	4		NW	55							
	W	20	7		N	2							
	NW	20	10		NE	2							
	N	20	9										
	NE	20	11										
	E	5	8										
	SW	3	10	23	W	20							
OCT	W	20	9		NW	20							
	NW	10	10		N	20							
	N	20	9		NE	20							
	NE	40	15		E	20							
	E	6	13										

/cont..

FIGURE 74

HURRICANES PER ISLAND

[illegible]

HURRICANES WITHIN 100 MILES OF NASSAU

Year	Date	Centre at nearest point to Nassau		Movement towards	Remarks Nassau winds and damage H = hurricane conditions at Nassau
		Direction	Distance (miles)		
1729	Aug.	-	-	-	
1866	Oct.	-	-	-	
1886	-	-	-	-	
1887	-	-	-	-	
1888	15 Aug	SW	60	WNW	50 mph. Little damage
1889	-	-	-	-	
1890	-	-	-	-	
1891	23 Aug	SW	40	WNW	No record of high winds or damage.
1892	-	-	-	-	
1893	26 Aug	NW	40	NW	37 mph. Little damage
1894	-	-	-	-	
1895	21 Oct	WNW	80	NNE	35 mph. Little damage
1896	4-5 Sept	E	10	NNE-NE	35 mph. Apparently no damage.
1897	-	-	-	-	
1898	-	-	-	-	
1899	12 Aug.	SW	80	NNW	H. 74 mph. Old buildings and crops damaged, boats sunk. Strong winds, no reports of damage.
1900	-	-	-	-	
1901	-	-	-	-	
1902	-	-	-	-	
1903	10 Sept	SW	20	WNW-NW	H. Estimated 90 mph. Wide-spread damage of less substantial buildings, trees, crops and boats. Flooding.
1904	-	-	-	-	
1905	-	-	-	-	
1906	-	-	-	-	
1907	-	-	-	-	
1908	13 Sept	ESE	90	NNE	24 mph, heavy swell.
	30 Sept	W	70	N	H. Estimated 80 mph. Wide-spread damage to trees, fences etc.
1909	11 Oct.	NW	80	NE	41 mph. Damage to trees etc.
1910	-	-	-	-	
1911	-	-	-	-	
1912	21 Nov.	ESE	60	NNE	15 mph. only reported.
1913	-	-	-	-	
1914	-	-	-	-	
1915	-	-	-	-	
1916	-	-	-	-	
1917	-	-	-	-	

/cont..

FIGURE 75 /cont...

Year	Date	Centre at nearest point to Nassau		Movement towards	Remarks Nassau winds and damage H = hurricane conditions at Nassau
		Direction	Distance (miles)		
1918	-	-	-	-	
1919	8 Sept	S	80	W	56 mph. Damage to trees and boats.
1920	-	-	-	-	
1921	-	-	-	-	
1922	-	-	-	-	
1923	26 Sept	ENE	90	NNW	40 mph.
1924	-	-	-	-	
1925	-	-	-	-	
1926	26 Jul	Over Nassau	NIL	NW	H. Estimated 120 mph. Widespread damage to many buildings, trees etc. with flooding.
	17 Sept	SW	40	NW	H. Estimated 120 mph. Some houses roofless or damaged, trees uprooted and boats sunk.
Guadian	21 Oct.	NW	100	NE	H. Winds 75 mph
1927	-	-	-	-	
1928	6 Aug.	SW	40	NW	35 mph
	16 Sept	Over Nassau	NIL	NW	H. Estimated 120 mph. Damage to buildings and houses, vessels in harbour.
1929	26 Sept	Over Nassau	NIL	SW	H. Estimated 140 mph. Extensive damage to buildings and houses, and boats. Lives lost.
1930	-	-	-	-	
1931	-	-	-	-	
1932	5 Sept	NE	40	NW	Only strong winds.
1933	28 Jul	NE	80	NW	Highest reported 20 mph.
	3 Sept	NE	30	WNW	Highest reported 30 mph.
	5 Oct.	NW	50	NE	Highest reported 25 mph.
1934	-	-	-	-	
1935	28 Sept	NW	90	NE	Highest reported 25 mph.
1936	-	-	-	-	
1937	-	-	-	-	
1938	-	-	-	-	
1939	-	-	-	-	
1940	-	-	-	-	
1941	5 Oct.	S	20	WNW	H. 75 mph, gusts 85. Some damage to houses, and many boats.
1942	-	-	-	-	
1943	-	-	-	-	
1944	-	-	-	-	

/cont...

FIGURE 75 /cont...

Year	Date	Centre at nearest point to Nassau		Movement towards	Remarks Nassau winds and damage H = hurricane conditions at Nassau
		Direction	Distance (miles)		
1945	15 Sept	SW	80	WNW	35 mph, gusts 60. Damage to some houses, some trees uprooted.
1946	-	-	-	-	
1947	16 Sept.	N	100	W	40 mph, gusts 55. Little damage.
1948	-	-	-	-	
1949	26 Aug.	SW	10	NW	46 mph, gusts 80. Damage to building and houses, trees uprooted, boats sunk.
1950	-	-	-	-	
1951	-	-	-	-	
1952	25 Oct.	S	20	E	25 mph, gusts 48. FOX
1953	-	-	-	-	
1954	-	-	-	-	
1955	-	-	-	-	
1956	14 Aug.	ENE	90	NW	18 mph, gusts 29. BETSY
1957	-	-	-	-	
1958	-	-	-	-	
1959	-	-	-	-	
1960	-	-	-	-	
1961	-	-	-	-	
1962	-	-	-	-	
1963	-	-	-	-	
1964	-	-	-	-	
1965	7 Sept.	Over Nassau	NIL	W	H. Estimated 80 mph, gusts 120. Extensive damage to buildings and houses, trees uprooted, boats sunk. BETSY
1966	3 Oct.	NW	60	NW-WSW	40 mph, gusts 63. Tornado and flooding. INFZ
1967	-	-	-	-	
1968	-	-	-	-	
1969	-	-	-	-	
1970	-	-	-	-	
1971	-	-	-	-	
1972	-	-	-	-	

FIGURE 76

BAHAMA STORMS

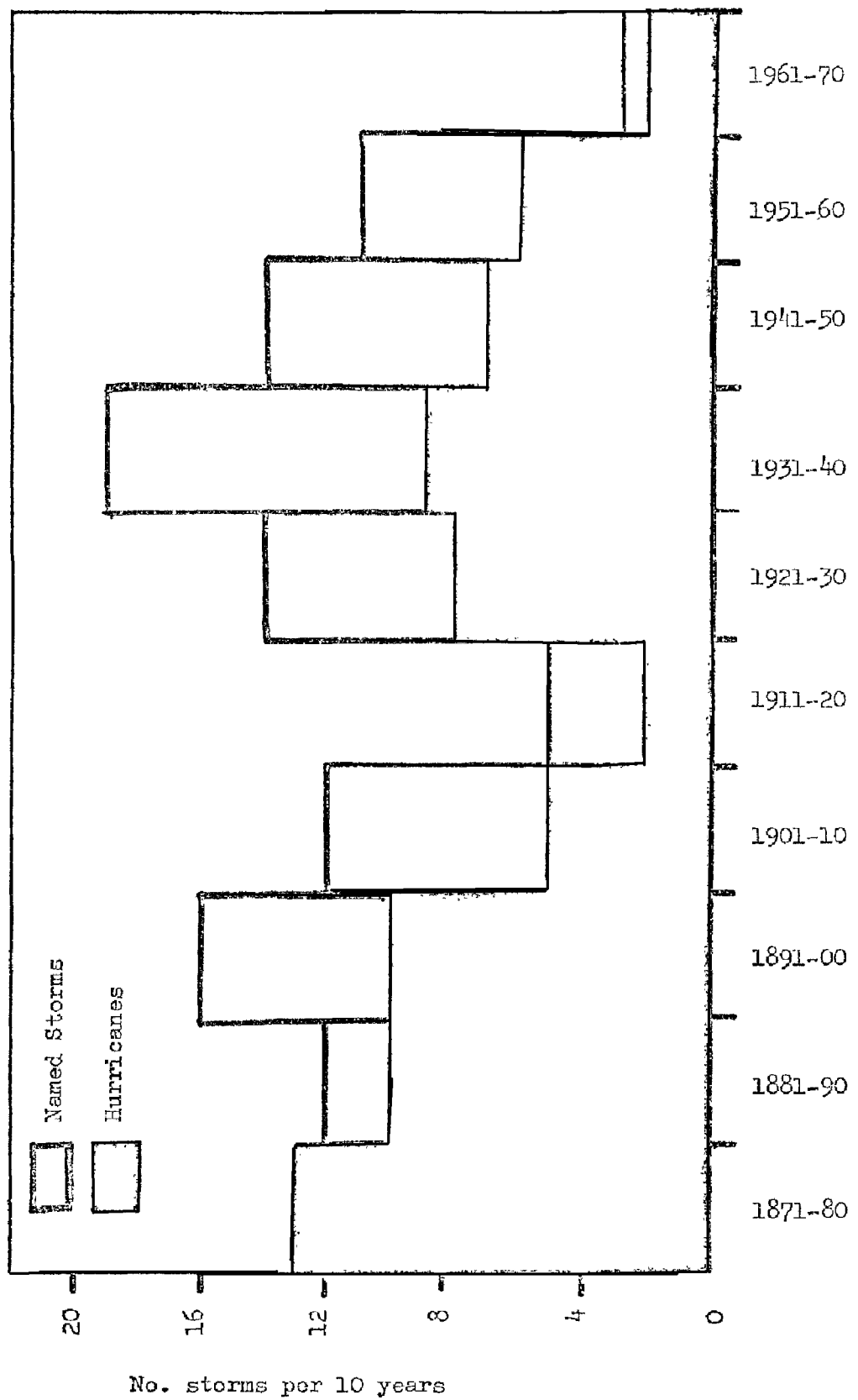


FIGURE 77

POPULATION GROWTH IN BAHAMAS:

1838 - 1970

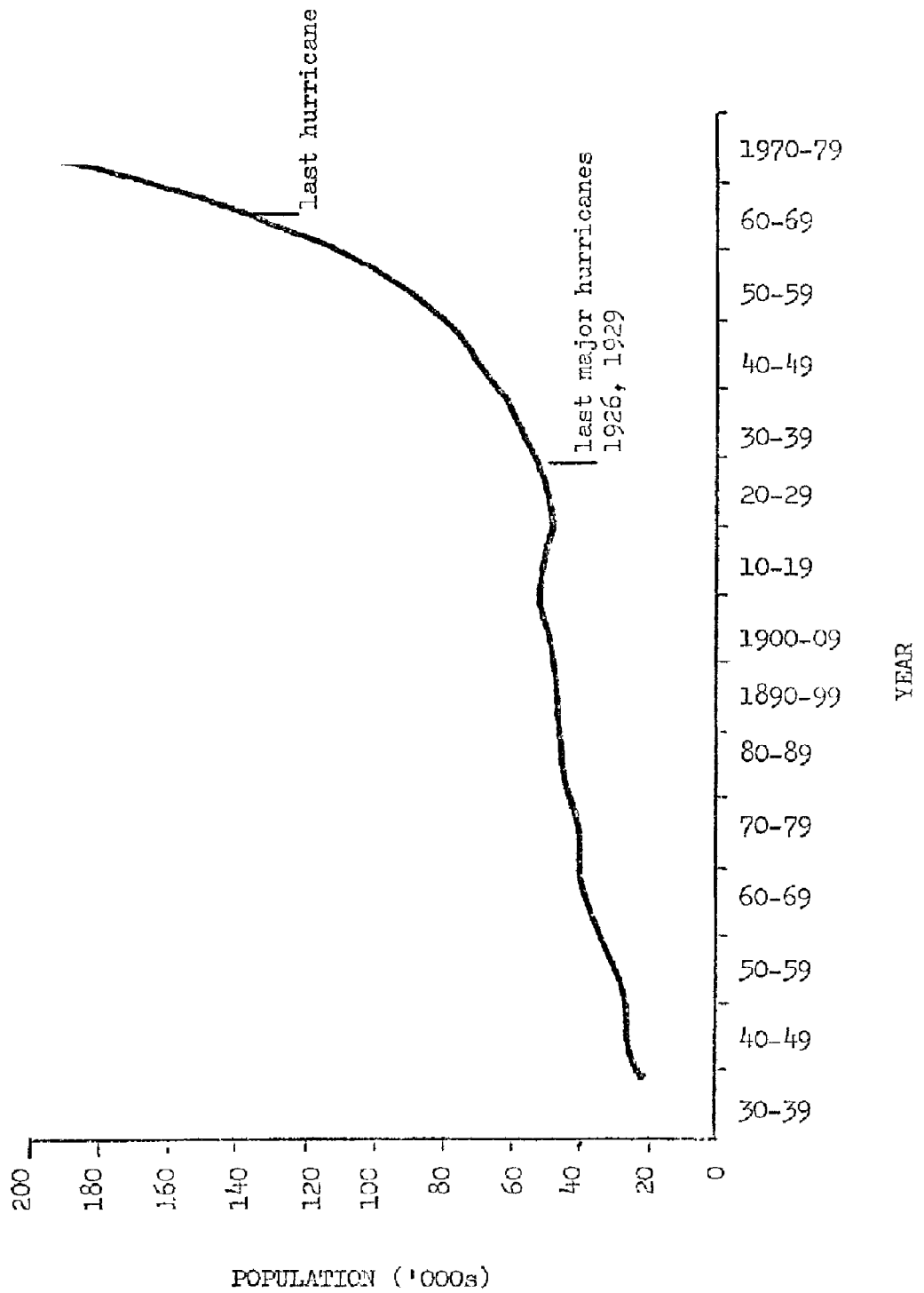
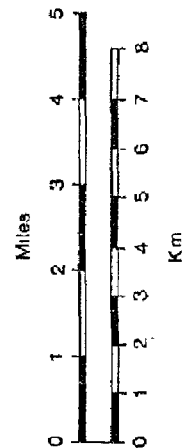
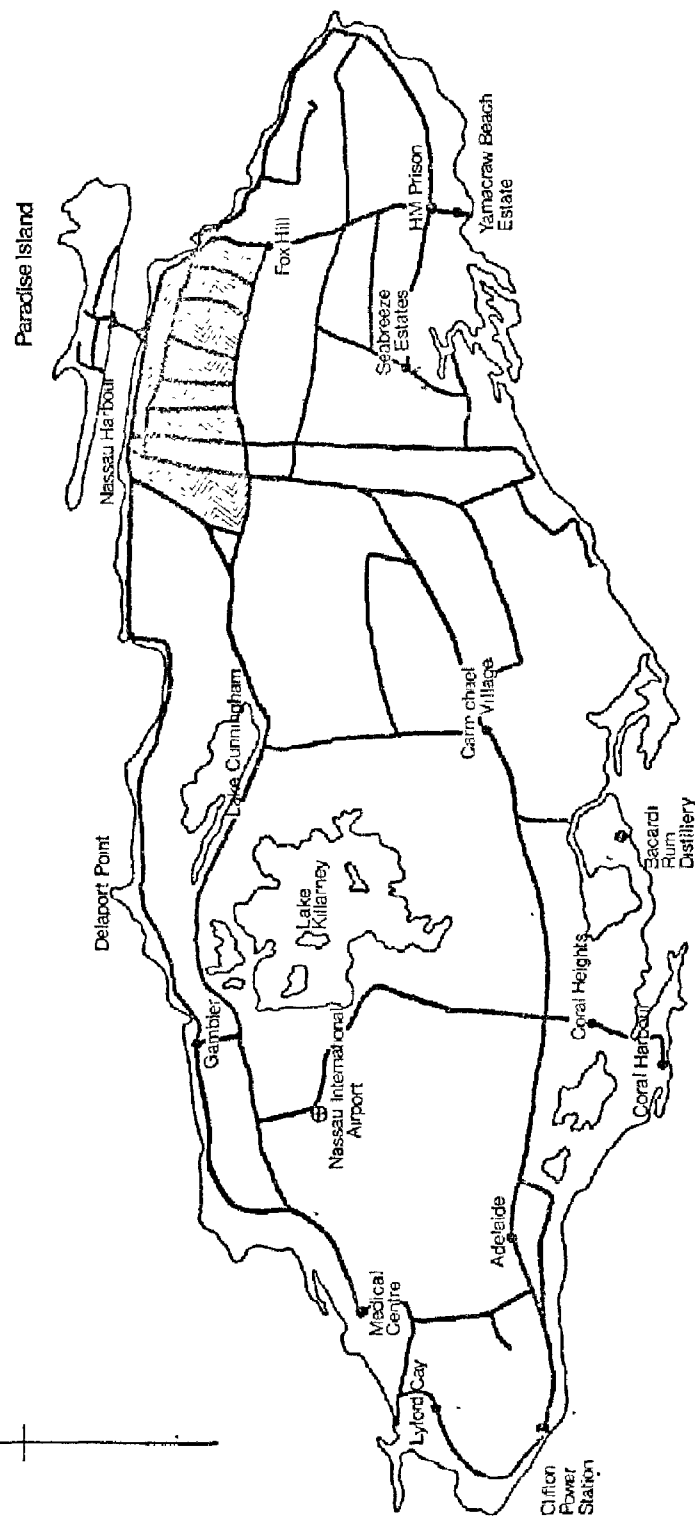




Fig 78

New Providence Island



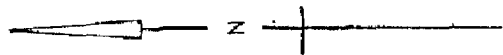


Fig 79
Grand Bahama Island

- Port Authority
Removed Sandbanks
Swamp

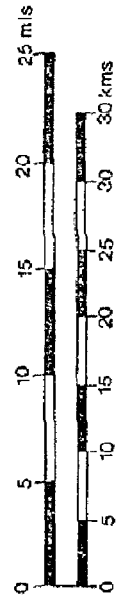
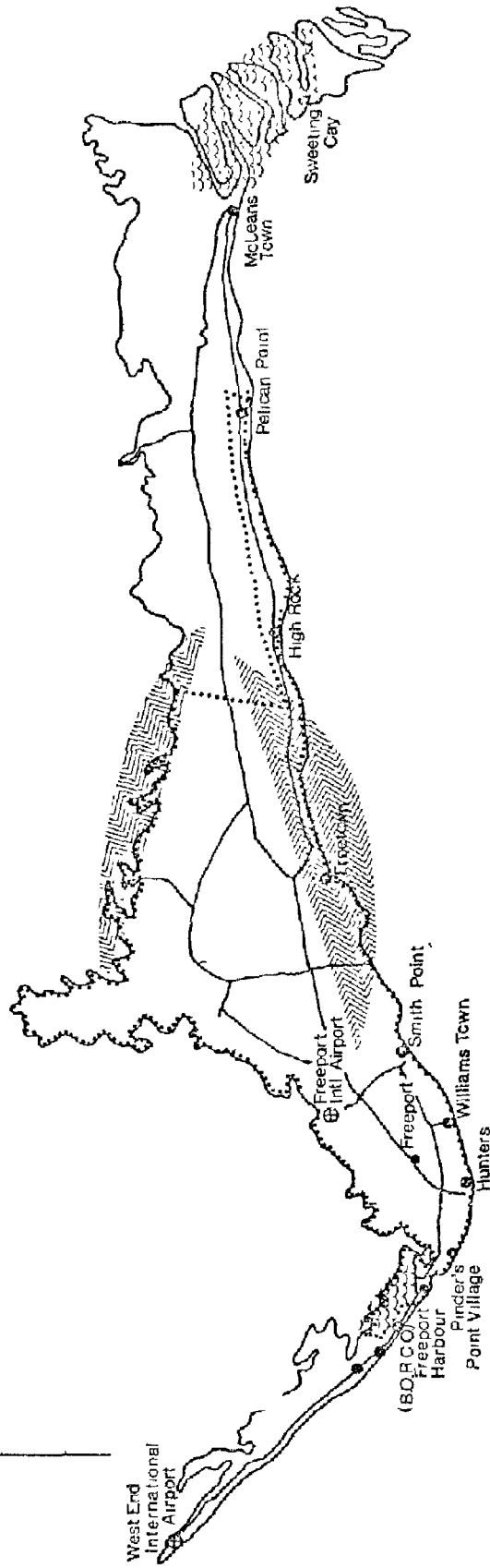




FIGURE 80

THE BAHAMAS OIL REFINING COMPANY INSTALLATION, GRAND BAHAMA; WITH PART OF PINDERS POINT SETTLEMENT IN THE FAR DISTANCE.



FIGURE 81

HOUSE WITH PRINCIPLE FLOOR RAISED ABOVE GROUND LEVEL: EAST BAY STREET
(LANDWARD SIDE) NASSAU. EARLY 1930'S.



FIGURE 82

HOUSE AT AND BELOW GROUND LEVEL: EAST BAY (STREET (SEAWARD SIDE) NASSAU.
EARLY 1970's.

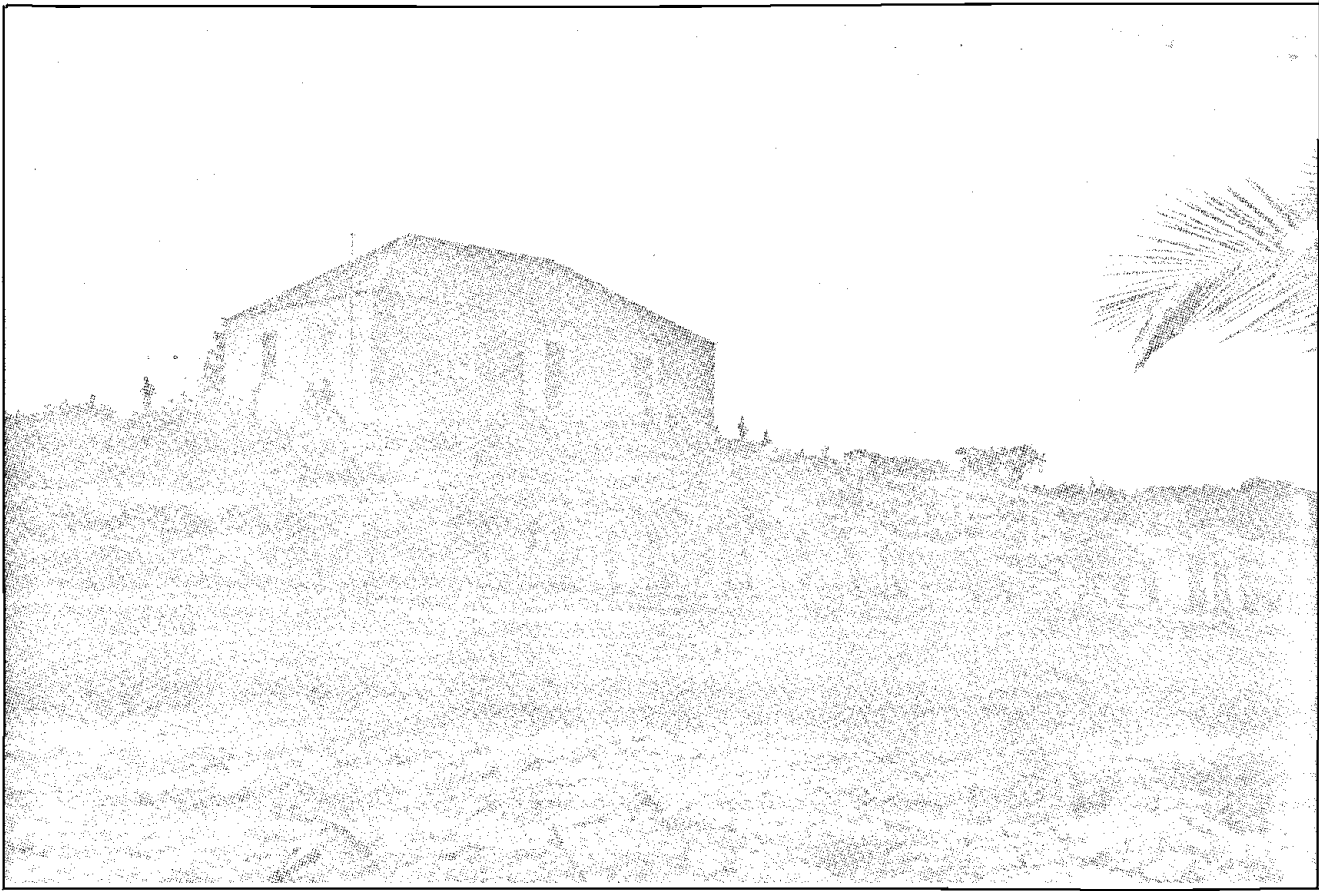


FIGURE 83

EXUMA: FOREB'S HILL SCHOOL