

## 12. Atlantic Ocean

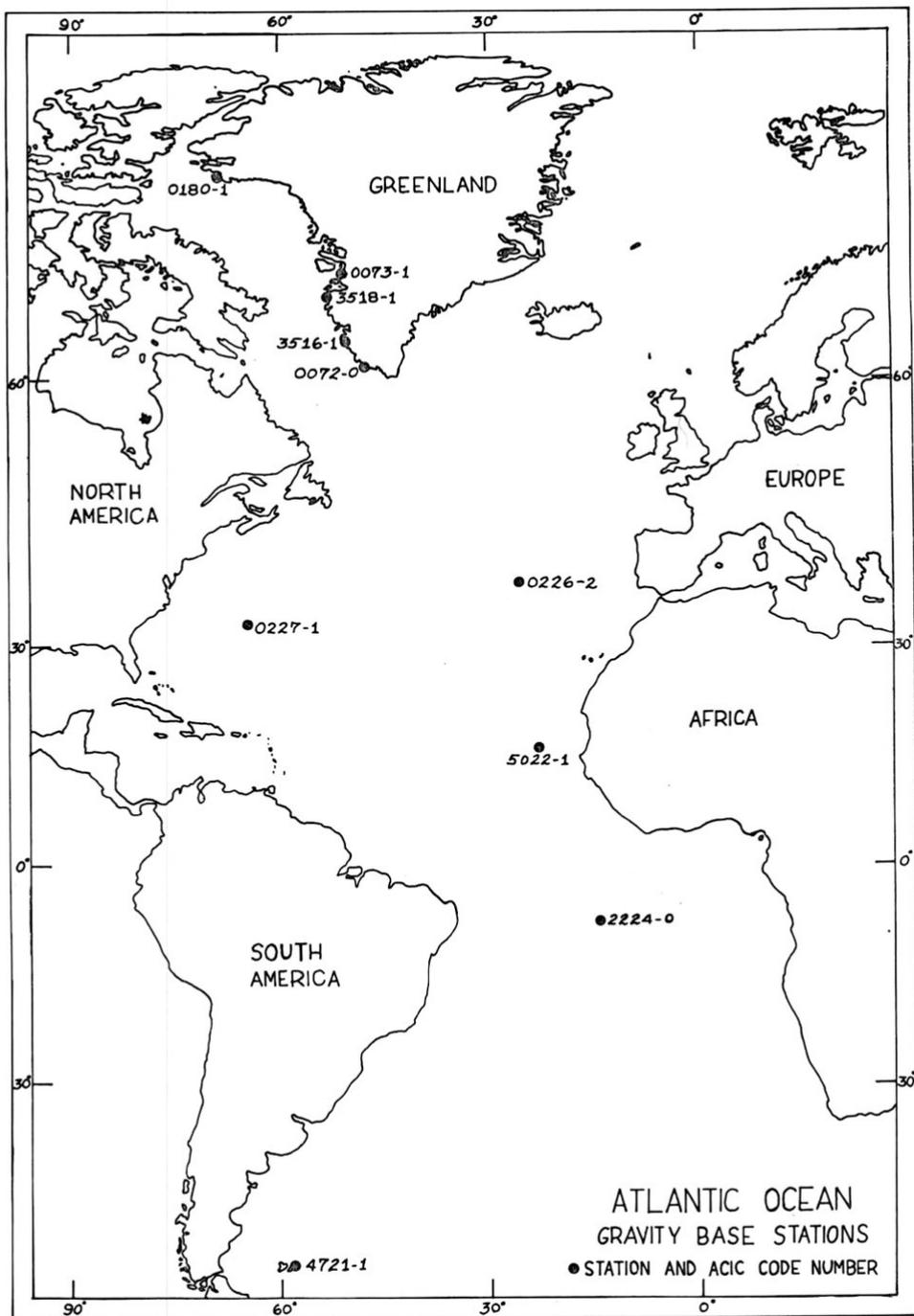
### 12.1 Introduction

The Atlantic Ocean area will include all the islands in the North and South portions of the Atlantic Ocean and will consist of such islands as Greenland, Bermuda, Azores, Cape Verde, Ascension, and Falkland.

The adopted gravity values and estimated accuracies are relative to Potsdam ( $g = 981\ 274$  mgals) and the scale was set by an interval of 1228.48 mgals on the American Calibration Line between Houston A and Great Falls A.

12.2 Gravity Base Stations

Atlantic Ocean



CROSS REFERENCE LIST  
ATLANTIC OCEAN

STATION DESIGNATION	ACIC REF NO
ASCENSION ISLAND ASCENSION	2224-0
AZORES AZORES	0226-2
BERMUDA BERMUDA	0227-1
CAPE VERDE ISLANDS CAPE VERDE	5022-1
FALKLAND ISLANDS PORT STANLEY	4721-1
GREENLAND FAERINGEHAVN	3516-1
HOLSTEFINSBORG	3518-1
IVIGTUT	0072-0
JAKORSHAVN	0073-1
THULE	0180-1

## GRAVITY BASE STATION

LATITUDE		61° 12'N	(1)	STATION DESIGNATION	
LONGITUDE		48° 12'W	(1)	IVIGTUT	
ELEVATION		METERS		COUNTRY/STATE	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE			
ACIC 0072-0				g =	981 966.21 mgals
IGB 22118 A					
				ESTIMATED ACCURACY	DATE
				+ 0.4 mgals	MONTH/YEAR 1/2/69

## DESCRIPTION AND/OR SKETCH

Station is located at the foot of the astronomical pillar at Ivigtut.  
(The pillar is 1.40 meters high).

(1)

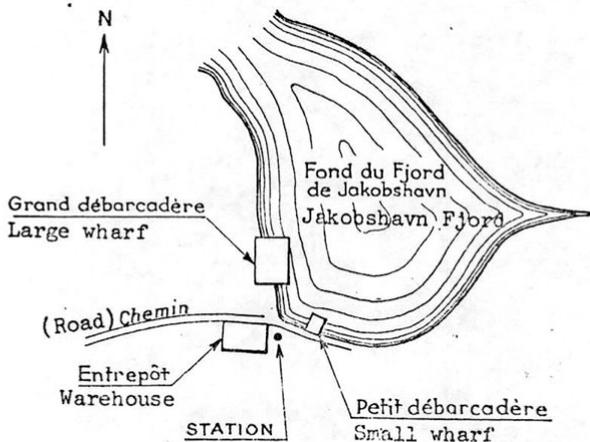
## REFERENCE SOURCE

(1) 00177

### GRAVITY BASE STATION

LATITUDE 69° 13.5'N (1)		STATION DESIGNATION  JAKOBSHAVN	
LONGITUDE 51° 06'W (1)			
ELEVATION 3.1 METERS (1)		COUNTRY/STATE GREENLAND	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0073-1		g = 982 502.21 mgals	
		ESTIMATED ACCURACY	DATE
		+ 0.3 mgals	MONTH/YEAR Aug 1969

DESCRIPTION AND/OR SKETCH



(1)

REFERENCE SOURCE

(1) 00275

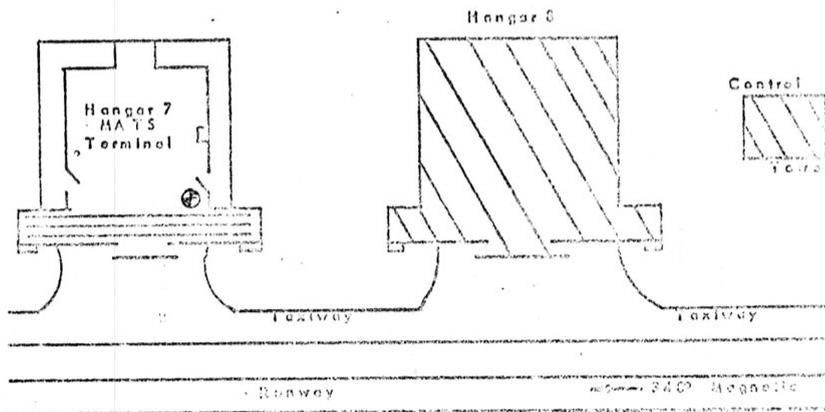
### GRAVITY BASE STATION

LATITUDE 76° 32'N (1)	STATION DESIGNATION THULE	
LONGITUDE 68° 46'W (1)		
ELEVATION 78 METERS (1)	COUNTRY/STATE GREENLAND	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0180-1		g = 982 927.41 mgals
IGB 25968 J		
WA 320		
DO 9815-65		ESTIMATED ACCURACY
NHO 61.00		DATE
	+ 0.2 mgals	MONTH/YEAR
		Sept 1970

**DESCRIPTION AND/OR SKETCH**

Station is located on Thule AB in hangar 7, a portion of which is used as the MATS Passenger Terminal, and is the second hangar west of the control tower. Observations were made on the concrete floor, beneath the fire alarm inside the hangar, at ground level, 0.20 meter west of the wall and 0.30 meter north of the tracks for the hangar doors, in the southeast section of the hangar. A standard gravity disk stamped "Gravity Calibration Base" was placed. All directions are relative to True North.

(1)



(1)

**REFERENCE SOURCE**

(1) 02752

464

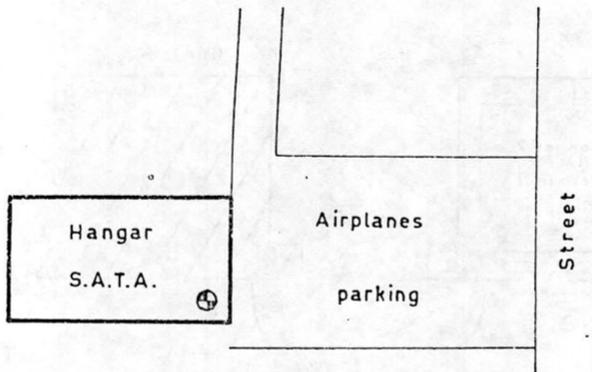
### GRAVITY BASE STATION

LATITUDE 37° 48.3'N (1)	STATION DESIGNATION AZORES AP	
LONGITUDE 25° 33.8'W (1)		
ELEVATION 68.3 meters (1) METERS	COUNTRY/STATE PORTUGAL	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0226-2	$g = 980\ 124.22$ mgals	
IGB 11187 K		
		ESTIMATED ACCURACY
		DATE
		$\pm 0.5$ mgals
		MONTH/YEAR 9-4-68

DESCRIPTION AND/OR SKETCH

Station is located at Santana Airport on Sao Miguel Island; on bronze bench mark on the floor, 5 meters from the S corner of the hangar entrance. Airport is 15 km. from Ponta Delgada Meteorological Observatory.

(1)



(1)

REFERENCE SOURCE

(1) 01412

465

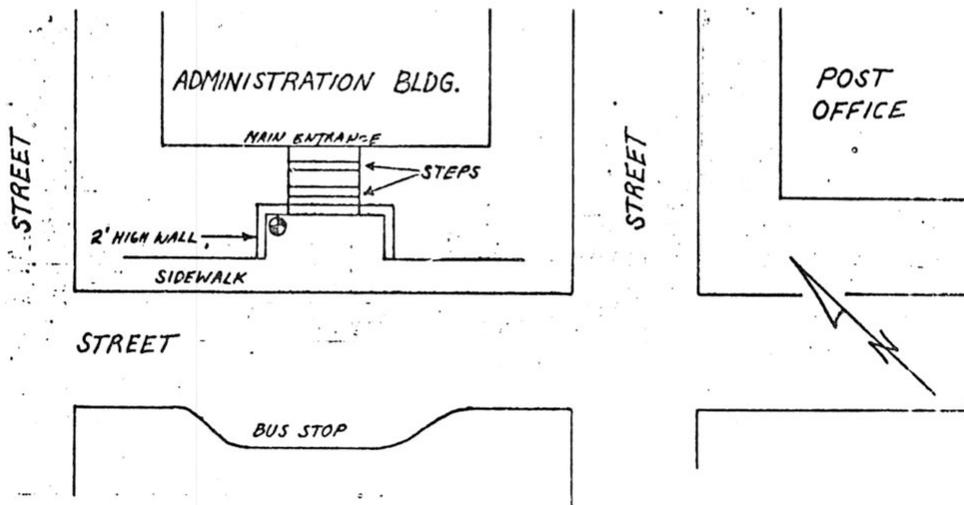
### GRAVITY BASE STATION

LATITUDE	32° 16'N	(1)	STATION DESIGNATION  BERMUDA	
LONGITUDE	64° 50'W	(1)		
ELEVATION	METERS		COUNTRY/STATE BERMUDA	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0227-1			$\epsilon = 979\ 873.83$ mgals	
IGB 11524 0				
NHO 54.01				
			ESTIMATED ACCURACY	DATE
			+ 0.4 mgals	MONTH/YEAR Apr 1971

DESCRIPTION AND/OR SKETCH

U.S. Naval Base, Sandys Parrish, Bermuda -- station is located at main entrance to Administration Building in a corner formed by the northern most of two 2 feet high walls. Station is at same elevation as sidewalk.

(1)



(1)

REFERENCE SOURCE  
(1) 02632

### GRAVITY BASE STATION

LATITUDE 07° 58.5'S (1)	STATION DESIGNATION  ASCENSION	
LONGITUDE 14° 24.4'W (1)		
ELEVATION 78.9 METERS (1)	COUNTRY/STATE ASCENSION ISLAND	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 2224-0	$g = 978\ 293.07$ mgals	
IGB 32674J		
WA 7001		
	ESTIMATED ACCURACY	DATE
	± 0.3 mgals	MONTH/YEAR 10/68

DESCRIPTION AND/OR SKETCH

Observations were made at Ascension Auxiliary Airfield, about 150 meters west of the aircraft parking apron and fire station, at building #12040 (weather station and flight operations).

Site is in the operations room, on the tile floor, about 2.5 meters from the east and west walls, and three meters west of USC & GS BM Fl 1958.

Station is not monumented.

(1)

REFERENCE SOURCE

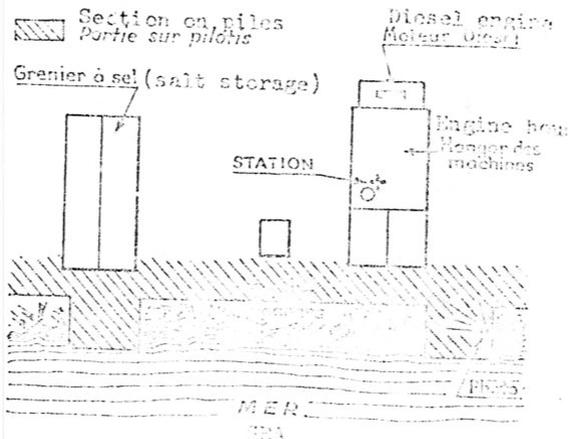
(1) 02700

## GRAVITY BASE STATION

LATITUDE 63° 42.3'N (1)		STATION DESIGNATION  FAERINGEHAVN	
LONGITUDE 51° 28.0'W (1)			
ELEVATION 4m (1) METERS		COUNTRY/STATE GREENLAND	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 3516-1		$g = 982\ 184.88$ mgals	
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			Oct 1969

**DESCRIPTION AND/OR SKETCH**

The Norway concession, a few kilometers north east of the port entrance.  
In the machine hanger, on the concrete footing of the boiler. (1)



(1)

468  
REFERENCE SOURCE

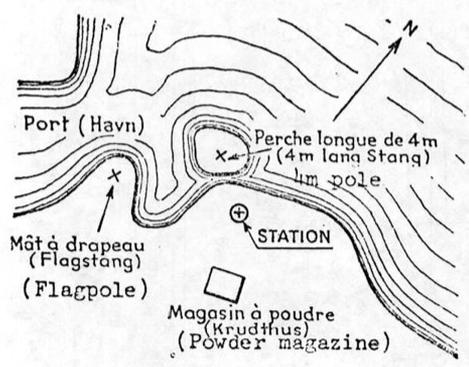
(1) 00275

### GRAVITY BASE STATION

LATITUDE		66° 56.4'N (1)		STATION DESIGNATION  HOLSTEINSBORG	
LONGITUDE		53° 41.0'W (1)			
ELEVATION		5.3m (1) METERS		COUNTRY/STATE GREENLAND	
REFERENCE CODE NUMBERS				ADOPTED GRAVITY VALUE	
ACIC 3518-1				$g = 982\ 425.30$ mgals	
				ESTIMATED ACCURACY	
				DATE	
				MONTH/YEAR	
		± 0.3 mgals		Oct 1969	

DESCRIPTION AND/OR SKETCH

Station is 25 meters north of a powder magazine.  
 Station is marked G.I. (1)



(1)

REFERENCE SOURCE

(1) 00275

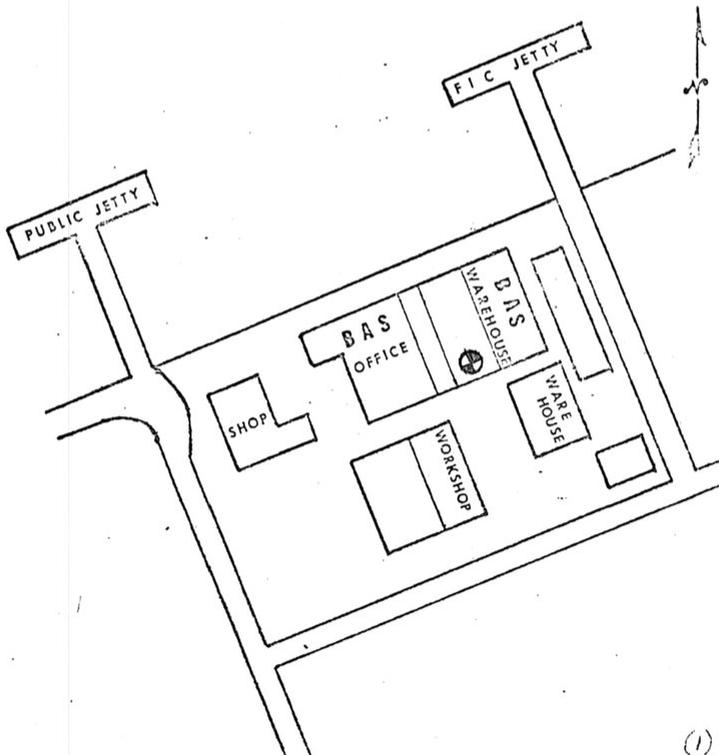
469

### GRAVITY BASE STATION

LATITUDE		51° 41.5'S (1)		STATION DESIGNATION		PORT STANLEY	
LONGITUDE		57° 51.1'W (1)					
ELEVATION		2.8 METERS(1)		COUNTRY/STATE			
				Falkland Islands			
REFERENCE CODE NUMBERS				ADOPTED GRAVITY VALUE			
ACIC 4721-1				g =		981 238.57 mgals	
				ESTIMATED ACCURACY		DATE	
				± 0.5 mgals		MONTH/YEAR	
						March 1972	

**DESCRIPTION AND/OR SKETCH**

The station is a chiseled cross in the concrete floor of the British Antarctic Survey (B.A.S.) Warehouse, next to the B.A.S. Office. The station is approximately 12 feet due north, of the east edge, of the warehouse door. (1)



REFERENCE SOURCE

(1) 03707

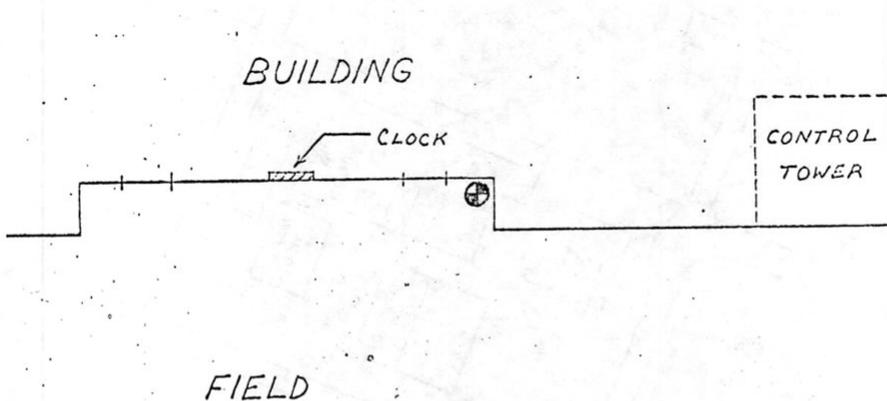
### GRAVITY BASE STATION

LATITUDE		STATION DESIGNATION	
LONGITUDE		CAPE VERDE	
ELEVATION		COUNTRY/STATE	
METERS		CAPE VERDE IS	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 5022-1		$g = 978\ 730.5$	mgals
IGB 03962 J			
NHO 23.02			
		ESTIMATED ACCURACY	DATE
		± 0.5 mgals	MONTH/YEAR
			July 1972

DESCRIPTION AND/OR SKETCH

Aeroporto Do Sal, Sal Island, Cape Verde Islands; station is located 2.5 ft. to right of door nearest control tower when entering building from field. There is a sign above the station which reads, "Aeroporto Do Sal-Portugal."

(1)



REFERENCE SOURCE

(1) 02632

471

APPENDIX A.11

REFERENCES  
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