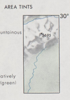
GNC 21

EDITION 7

LEGEND

AREA TINTS



Hilly and mountainous areas.

Valleys & relatively level areas (green)

SPOT ELEVATIONS

Accurate Elevation (within ±100 feet) 0000
Questionable Elevation (within ±300 feet) . . . . ×0000
Location Undetermined (accuracy is unknown) 0000
Critical Elevation 0000
Lake 0000

TRANSPORTATION

Railroads
Dual Lane Highways
Roads

NOTES

THE REPRESENTATION OF INTERNATIONAL BOUNDARIES IS NOT NECESSARILY AUTHORITATIVE.

Operational Navigation Chart series indicated thus: H-1

World Aeronautical Chart series indicated thus: 699

Universal Water Charts indicated thus: 8/12

AERONAUTICAL INFORMATION

AERODROMES

Pattern shown when longest runway is 4000' or over

Dot indicates Geographical Location of Aerodrome.

LANDPLANE

◎ Military
○ Civil
◎ Joint Civil and Military
○ Landing Area

RADIO FACILITIES

VHF OMNI RANGE(VOR) . . . ⊙
VORTAC . . . . ⊙
TACAN . . . . ⊙
VOR with DME . . . . ⊡
Other Facilities . . . . ○

SPECIAL USE AIRSPACES

P-16
Prohibited Area

R-3
Alert, Danger, Restricted or Warning Areas.

Number indicates Internationally recognized numerical identification.

All Special Use Airspace is portrayed in the body of this chart with the following exceptions:
(1) Those that are activated only by NOTAM.
(2) All Special Use Airspaces below 10,000 feet. Located entirely over land.
(3) All danger Areas.

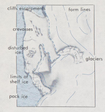
MISCELLANEOUS

▲ Compulsory reporting point.

CONVERSION OF ELEVATIONS

FEET (Thousands)	METERS (Thousands)
30	9
26	8
22	7
20	6
16	5
14	4
10	3
6	2
4	1
0	0

ANTARCTIC LEGEND


cliffs escarpments
form lines
crevasses
disturbed ice
glaciers
limits of shelf ice
pack ice

SPOT ELEVATIONS

Maximum vertical error 100 feet 0000
Maximum possible vertical error undetermined x0000
Approximate or doubtful locations are indicated by omission of the point locator (dot or x) 0000
Critical elevation 0000

STATIONS

Operating . . . . ⊙
Refuge . . . . ■

NOTES

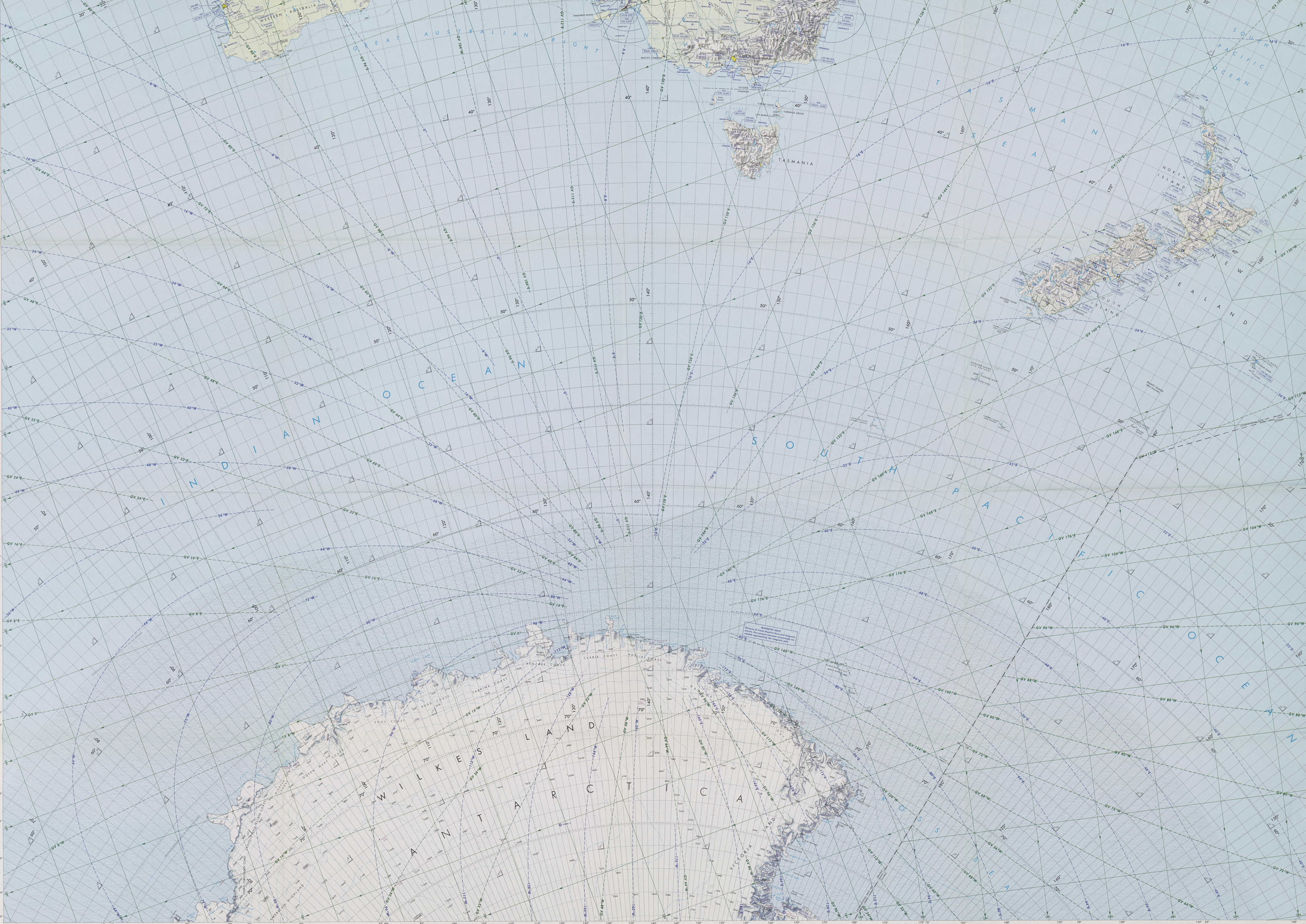
SOVERIGNTY CLAIMS SOUTH OF 60° SOUTH LATITUDE ARE NOT RECOGNIZED BY THE UNITED STATES GOVERNMENT.

NOTE: FOR GRID OPERATION ONLY
When crossing the 180th meridian in grid operation, the value of the current grid heading will change due to the convergence of grid lines along this meridian. The difference is 77°16' which represents a constant angle for the latitude band covered by this chart. Therefore when crossing the 180th meridian it will be necessary to remeasure the grid course based on the new grid north and compute a new grid heading or correct the current grid heading by use of the following formulae:
GOING WESTWARD (TRUE) DECREASE GRID HEADING BY 77°16'
GOING EASTWARD (TRUE) INCREASE GRID HEADING BY 77°16'

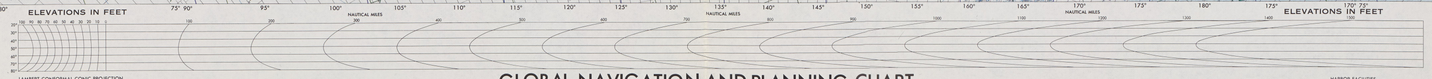
Lines of constant grid variation. (isogriv) ——GV 10°W——

CONVERGENCE TABLE–STANDARD PARALLELS 37° & 65°

LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.	LONG.	CONV.
0°	0°00'	16°	12°34'	32°	25°08'	48°	37°42'	64°	50°16'	80°	62°50'	96°	75°24'	112°	87°58'	128°	100°31'	144°	113°05'	160°	125°39'	176°	138°13'
1°	0°47'	17°	13°21'	33°	25°55'	49°	38°29'	65°	51°03'	81°	63°37'	97°	76°11'	113°	88°45'	129°	101°19'	145°	113°53'	161°	126°26'	177°	139°00'
2°	1°34'	18°	14°08'	34°	26°42'	50°	39°16'	66°	51°50'	82°	64°24'	98°	76°58'	114°	89°32'	130°	102°06'	146°	114°40'	162°	127°14'	178°	139°48'
3°	2°21'	19°	14°55'	35°	27°29'	51°	40°03'	67°	52°37'	83°	65°11'	99°	77°45'	115°	90°19'	131°	102°53'	147°	115°27'	163°	128°01'	179°	140°35'
4°	3°08'	20°	15°42'	36°	28°16'	52°	40°50'	68°	53°24'	84°	65°58'	100°	78°32'	116°	91°06'	132°	103°40'	148°	116°14'	164°	128°48'	180°	141°22'
5°	3°56'	21°	16°30'	37°	29°03'	53°	41°37'	69°	54°11'	85°	66°45'	101°	79°19'	117°	91°53'	133°	104°27'	149°	117°01'	165°	129°35'		
6°	4°43'	22°	17°17'	38°	29°51'	54°	42°25'	70°	54°58'	86°	67°32'	102°	80°06'	118°	92°40'	134°	105°14'	150°	117°48'	166°	130°22'		
7°	5°30'	23°	18°04'	39°	30°38'	55°	43°12'	71°	55°46'	87°	68°20'	103°	80°53'	119°	93°27'	135°	106°01'	151°	118°35'	167°	131°09'		
8°	6°17'	24°	18°51'	40°	31°25'	56°	43°59'	72°	56°33'	88°	69°07'	104°	81°41'	120°	94°15'	136°	106°48'	152°	119°22'	168°	131°56'		
9°	7°04'	25°	19°38'	41°	32°12'	57°	44°46'	73°	57°20'	89°	69°54'	105°	82°28'	121°	95°02'	137°	107°36'	153°	120°10'	169°	132°43'		
10°	7°51'	26°	20°25'	42°	32°59'	58°	45°33'	74°	58°07'	90°	70°41'	106°	83°15'	122°	95°49'	138°	108°23'	154°	120°57'	170°	133°31'		
11°	8°38'	27°	21°12'	43°	33°46'	59°	46°20'	75°	58°54'	91°	71°28'	107°	84°02'	123°	96°36'	139°	109°10'	155°	121°44'	171°	134°18'		
12°	9°25'	28°	21°59'	44°	34°33'	60°	47°07'	76°	59°41'	92°	72°15'	108°	84°49'	124°	97°23'	140°	109°57'	156°	122°31'	172°	135°05'		
13°	10°13'	29°	22°47'	45°	35°20'	61°	47°54'	77°	60°28'	93°	73°02'	109°	85°36'	125°	98°10'	141°	110°44'	157°	123°18'	173°	135°52'		
14°	11°00'	30°	23°34'	46°	36°08'	62°	48°42'	78°	61°15'	94°	73°49'	110°	86°23'	126°	98°57'	142°	111°31'	158°	124°05'	174°	136°39'		
15°	11°47'	31°	24°21'	47°	36°55'	63°	49°29'	79°	62°03'	95°	74°36'	111°	87°10'	127°	99°44'	143°	112°18'	159°	124°52'	175°	137°26'		


WESTERN AUSTRALIA
GREAT AUSTRALIAN BIGHT
TASMANIA
TASMAN SEA
NORTH ISLAND
SOUTH ISLAND
NEW ZEALAND
SOUTH PACIFIC OCEAN
INDIAN OCEAN
WILKES LAND
ANTARCTICA
ROSS SEA
VICTORIA LAND
AMERICAN HIGHLAND
AMERY ICE SHELF
PRYDZ BAY
INGRID CHRISTENSEN COAST
SABRINA COAST
BUDD COAST
KNOX COAST
QUEEN MARY COAST
BANZARE COAST
CLARIE COAST
ADELIE COAST
MAWSON PENINSULA
YOUNG ISLAND
BUCKLE ISLAND
INTERNATIONAL DATE LINE
GV 24°W
GV 32°W
GV 48°W
GV 64°W
GV 96°W
GV 160°W
GV 144°W
GV 176°E
48°E
64°E
80°E
96°E
112°E
128°E

MAGNETIC NOTE
Because of weak directive force and magnetic storms, the compass becomes increasingly unreliable approaching the magnetic pole.



LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS
37°00' and 65°00'
Convergence Factor .78535

GLOBAL NAVIGATION AND PLANNING CHART

GNC 21

SCALE 1:5,000,000

EDITION 7

CAUTION
AIR INFORMATION CURRENT THROUGH
28 NOVEMBER 1983
Consult Notices to Airmen (NOTAMs) and Flight Information Publications (FLIPs) for the latest air information; the Chart Updating Manual (CHUM) for other chart revision information.

LINES OF EQUAL MAGNETIC VARIATION FOR 1980

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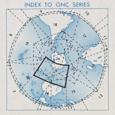
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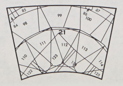
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EDITION 7