CHART CURRENCY

USE OF OUT OF DATE CHARTS OR PUBLICATIONS FOR NAVIGATION IS DANGEROUS. Aeronautical information changes rapidly, and it is vitally important that pilots check the effective dates on each aeronautical chart and publication. Obsolete charts and publications should be discarded and replaced by current editions.

Information on currency of charts listed in the "Miscellaneous DoD Charts and Publications Section" is available in the free quarterly publication, "Dates of Latest Editions - National Geospatial Intelligence Agency Public Sale Aeronautical Charts and Publications" (FAA Stock Number DADOLE). This publication is available from FAA/NACO (see below for address) or from FAA Aeronautical Chart Sales Agents located worldwide. This publication can be ordered from the FAA Distribution Division as a one-time order or as a standing order mailing list.

Another source of chart currency for the charts listed in the "Miscellaneous" Section is the Chart Updating Manual (CHUM) published semi-annually. The CHUM is updated by a monthly CHUM Supplement. The CHUM and the CHUM Supplement contain all known discrepancies affecting flight safety. All charts are listed in the CHUM and CHUM Supplement with current edition numbers and edition dates even if there are no known chart discrepancies. See page 21 of this catalog for information on ordering the CHUM and CHUM Supplement.

GENERAL INFORMATION

The Federal Aviation Administration (FAA), National Aeronautical Charting Office (NACO) is the sole distributor of public sale National Geospatial Intelligence Agency (NGA) aeronautical charts and Flight Information Publications (FLIPS). Public sales of NGA charts and publications are available through a network of FAA chart sales agents listed in the back of this catalog. We encourage you to patronize the local agents in your area. If the products you require are not available, your local agent may place an order for you, or you may order directly from FAA at the following address:

FAA, National Aeronautical Charting Office
Distribution Division, AVN-530
6303 Ivy Lane, Suite 400
Greenbelt, Maryland 20770-1479

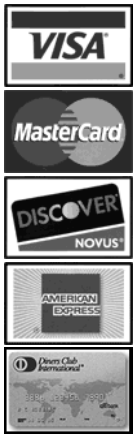
E-mail: 9-AMC-chartsales@faa.gov

Telephone and Fax orders are also accepted by the FAA Distribution Division:

Toll Free (within United States).....1-800-638-8972
Telephone.....301-436-8301
Fax.....301-436-6829

For your convenience, customer order forms are provided in the back of this catalog for mail or fax orders. To speed processing of your orders, please provide complete product information - product name and stock number including prefix, and your name, address, and daytime telephone number. All orders must include payment, by check, money order, or credit card. Payment must be in U.S. funds, by check payable to FAA-DOT on a U.S. bank or by international money order. Visa, MasterCard, Discover, American Express and Diners Club International are accepted. Prices include normal ground shipment. In the U.S., please allow 14 work days for delivery of individual orders. One-time orders and subscriptions outside the U.S. will automatically be sent by Air Letter/Air Parcel Post. Please note that returned checks will result in cancellation of your order. Subscription and Sales Agents Standing Order requests must be received for processing 5 weeks prior to the product effective date. Normal Delivery time is two weeks or less from the receipt of your prepaid order. An expedited processing/shipping service is available for an additional fee. Please call customer service at 1-800-638-8972 or 301-436-8301 for further information.

NOTE: Quantity limitations exist for charts that are co-produced with the United Kingdom and Australia. If restrictions apply, you will be notified by mail.



We welcome payment by Visa, MasterCard, Discover, American Express and Diners Club International credit cards. Card holders wishing to use this service need only fill in the "Credit Card Orders" section of the Customer Order Form included in the back of this catalog.

FLIP PLANNING DOCUMENTS

Flight Information Publications (FLIP)

The *FLIP Planning Documents* are intended primarily for use in ground planning at base, squadron, and unit operations offices. They are revised between publication dates by issuing replacement pages or a *Planning Change Notice (PCN)* on a scheduled or "as required" basis. Updated pages are issued as replacement pages when warranted by extensive changes or as otherwise appropriate. A *PCN* may contain a consolidation of various changes and/or corrections to several pages of a book to preclude publishing individual replacement pages. *Urgent Change Notices (UCNs)* are published as required.

General Planning (GP)

The GP is published in one book (8 by 11 inches) every 32 weeks. The GP contains general information on all FLIPS, an index for aeronautical information, terms, aviation weather codes, aircraft categories and codes, LORAN/OMEGA chart coverage and information on operations and firings over the high seas. It also includes information on flight plans and common worldwide pilot procedures and information on International Civil Aviation Organization (ICAO) procedures. A *PCN* is scheduled between revisions of this book at the 16th week interval.

PUBLICATION	STOCK NUMBER
BOOK	GPLAN

Area Planning

The *Area Planning Documents* are published in four books (8 by 11 inches) every 24 weeks. These books contain planning and procedural data for specific areas and countries of the world. They include those theatre, regional, and national procedures that differ from the standard procedures. For example, *AP/1* contains explanations of the divisions of United States airspace. Non-cumulative *PCNs* are scheduled between revisions of these books every 8 weeks. A combined *Area Planning (AP/4) and Special Use Airspace (4A)* book covering Eastern Europe and Asia is published every 48 weeks with non-cumulative *PCNs* scheduled at 8 week intervals. See graphic on page 5.

Area Planning - North and South America (AP/1)

PUBLICATION	STOCK NUMBER
BOOK	AP1

Area Planning - Europe-Africa-Middle East (AP/2)

PUBLICATION	STOCK NUMBER
BOOK	AP2

Area Planning - Pacific-Australasia-Antarctica (AP/3)

PUBLICATION	STOCK NUMBER
BOOK	AP3

Area Planning and Special Use Airspace - Eastern Europe and Asia (AP/4A)

PUBLICATION	STOCK NUMBER
BOOK	AP44A

NOTE: For technical assistance regarding Flight Information Publications, contact NIMA, St. Louis. ATTN: GIMA, Stop L-27, 3200 South Second St., St. Louis, MO 63118-3399, Tel: 314-263-4806, Fax: 314-263-4247; E-mail: (chdesk@NIMA.mil).

Area Planning - Special Use Airspace

The *FLIP - Special Use Airspace* is published in four books (8 by 11 inches) every 48 weeks. It contains tabulations of all prohibited, restricted, warning, danger and alert areas for specific countries. Also included are known parachute jumping areas and military operating areas. A combined *Area Planning (AP/4) and Special Use Airspace (4A)* book covers Eastern Europe and Asia. Non-cumulative *PCNs* are published for all books at 16 week intervals. See graphic on page 5.

North and South America - Special Use Airspace (AP/1A)

PUBLICATION	STOCK NUMBER
BOOK	AP1A

Europe-Africa-Middle East - Special Use Airspace (AP/2A)

PUBLICATION	STOCK NUMBER
BOOK	AP2A

Pacific-Australasia-Antarctica - Special Use Airspace (AP/3A)

PUBLICATION	STOCK NUMBER
BOOK	AP3A

Eastern Europe and Asia - Area Planning and Special Use Airspace (AP/4A)

PUBLICATION	STOCK NUMBER
BOOK	AP44A

Area Planning - Military Training Routes

The *FLIP - Military Training Routes* are published as one book and seven charts every 8 weeks. The book (8 by 11 inches) contains information relative to military routes, including IFR military training routes (IR), VFR military training routes (VR), slow speed low altitude training routes (SR), refueling tracks/anchors/VFR helicopter refueling tracks (AR) and avoidance locations. Charts (7 charts on 4 sheets) show graphic depictions of the IR, VR and SR route systems throughout the contiguous United States and Alaska.

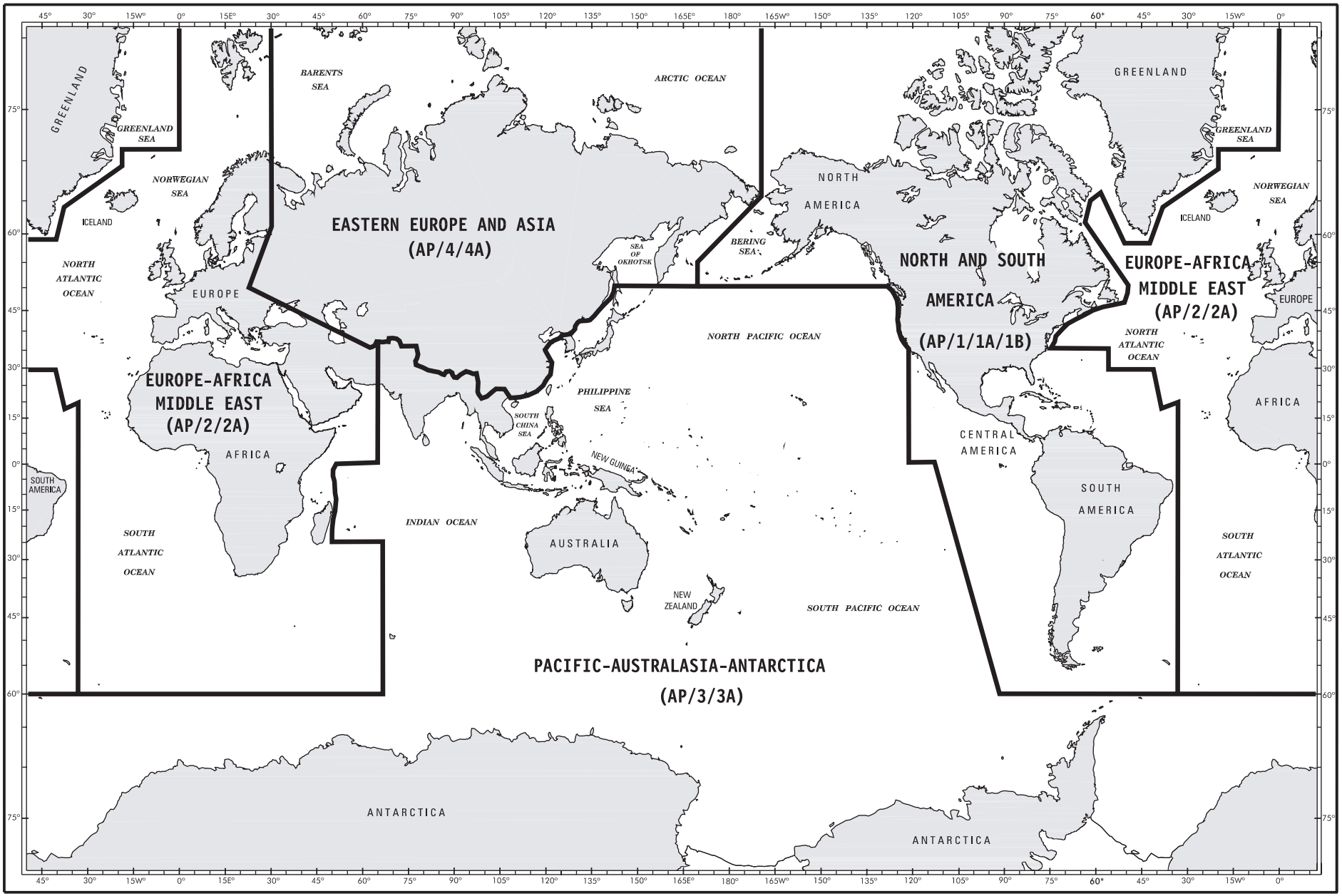
Area Planning Military Training Routes - North and South America (AP/1B)

PUBLICATION	STOCK NUMBER
BOOK	AP1B
CHARTS (7 Charts on 4 sheets)	AP1BCHTS

NOTE: Planning Charts of the U.S. and other areas are available from FAA/NACO. See the free catalog of FAA-produced Aeronautical Charts and Related Products (Stock Number ACATSET) and corresponding "Dates of Latest Editions" (Stock Number 5318).

NOTE: All Planning Change Notices are included in the subscription price.

BOUNDARIES OF DOD FLIGHT INFORMATION PUBLICATION–PLANNING

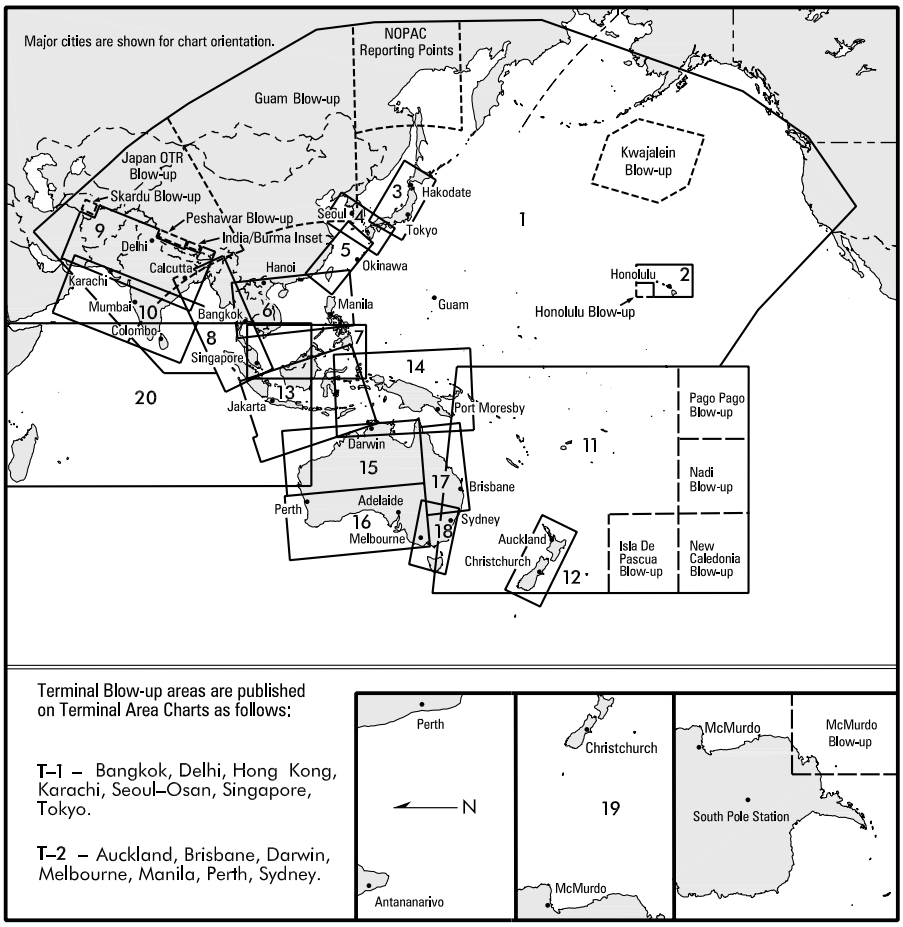


FLIP ENROUTE CHARTS AND CHART SUPPLEMENTS

Pacific, Australasia, and Antarctica

Twenty charts (10 sheets) printed back-to-back, accordion folded approximately 5 by 10 inches, provide information required for IFR flight in this area. Enlargements for Guam, Honolulu, Isla de Pascua, Kwajalein, McMurdo, Nadi, New Caledonia, and Pago Pago areas are included. An inset for NE India/NW Burma is included on Chart 9. Chart 19 is a special Deep Freeze chart of Antarctica. Charts are revised each 16 weeks (except charts 1 and 2 which are revised each 8 weeks).

Chart 1 serves as a planning chart for the area between the west coast of the U.S. and Asia. It includes an enlargement for Guam. Chart 2 covers the Hawaiian Islands and includes an enlargement of the Honolulu area.



Terminal Area Charts are included in one-time set orders or set subscriptions.

Chart T-1 depicts: Bangkok, Hong Kong, Delhi, Seoul/Osan, Singapore, Karachi, and Tokyo.

Chart T-2 depicts: Auckland, Brisbane, Darwin, Perth, Manila, Melbourne, and Sydney.

The *Supplement* is a bound book (approximately 5 by 8 inches) revised each 16 weeks containing an alphabetical IFR/VFR airport/heliport facility directory, airport and island sketches, and data required to support *Enroute* and *Area Charts*. An *Enroute Change Notice (ECN)* is published at the 8th week interval. *Urgent Change Notices (UCNs)* are published as required.

NOTE: For technical assistance regarding Flight Information Publications, contact NIMA, ATTN: GIMA, Stop L-27, 3200 South Second St., St. Louis, MO 63118-3399, Tel: 314-263-4806, Fax: 314-263-4247; E-Mail: (chdesk@NIMA.mil).

PUBLICATION	STOCK NUMBER
Pac, Australasia, & Antarctica:	
Charts 3/4-17/18, T1/T2	EPAASET
Charts 3-10 (North), T1 /T2	EPAASETN
Charts 11-18 (South), T1 /T2	EPAASETS
Charts 3/4	EPAA3
Charts 5/6	EPAA5
Charts 7/8	EPAA7
Charts 9/10	EPAA9
Charts 11/12	EPAA11
Charts 13/14	EPAA13
Charts 15/16	EPAA15
Charts 17/18	EPAA17
Charts 1/2 (available separately)	EPAA1
Charts 19/20 (available separately)	EPAA19
Terminal Area Charts: Charts T1 /T2 (1 Sheet)	EPAAT1
Supplement	EPAASUP

NOTE: Charts 1/2 and Charts 19/20 are not included in the sets. They must be ordered separately.

NOTE: *Enroute Change Notices*, published at the 8th week interval, are included in the subscription price of the charts and the supplement.

United States

The IFR - *Supplement* is a bound booklet (approximately 5 by 8 inches), containing an alphabetical airport/facility directory, special notices and related enroute data. Revised every 8 weeks, it is designed for use with the corresponding Enroute Charts, Area Charts and the *Flight Information Handbook*.

The VFR - *Supplement* is a bound booklet (approximately 5 by 8 inches), containing airport sketches with supporting text, arranged alphabetically, of military and selected general aviation VFR airports and heliports with sketches. It is revised every 24 weeks with an *Enroute Change Notice* at the 12th week interval.

IFR or VFR Supplement

PUBLICATION	STOCK NUMBER
IFR Supplement	IFRUSSUP
VFR Supplement	VFRUSSUP

NOTE: *Urgent Change Notices (UCNs)* for the *IFR* and *VFR Supplements* are published as required and are included in the subscription price of the supplements.

Flight Information Handbook. This handbook is a 5 by 8-inch bound book containing aeronautical information required by DoD aircrews in flight, and is not subject to frequent change. Sections include information on emergency procedures, national and international flight data and procedures, meteorological information, conversion tables, standard time signals, and FLIP and NOTAM abbreviations and codes. The handbook is designed for worldwide use in conjunction with DoD FLIP Enroute Supplements. The handbook is revised every 32 weeks. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
Handbook	FIHB

Caribbean and South America - Low Altitude

Nineteen charts (10 sheets) printed back-to-back, accordion folded (approximately 5 by 10 inches), portray data required for IFR operations in this area. Insets for Charleston-Bermuda, Ascension, Fernando de Noronha, and Galapagos Islands are included. There is no chart L-4 in this series. *Terminal Area Chart* T-2 is printed on the back of chart L-3 to satisfy civil user requirements. Charts 1 through 18 and T-1 and T-2 are revised every 8 weeks.

The *Supplement*, revised every 16 weeks, is a bound book (approximately 5 by 8 inches), containing an alphabetical IFR/VFR airport/heliport facility directory, airport sketches, and data required to support the *Enroute* and *Terminal Area Charts*. An *Enroute Change Notice (ECN)* is published at the 8th week interval. *Urgent Change Notices (UCNs)* are published as required.

Two *Terminal Area Charts* portray the airway system and related data required for IFR operations in selected terminal areas. They are included in the set subscription.

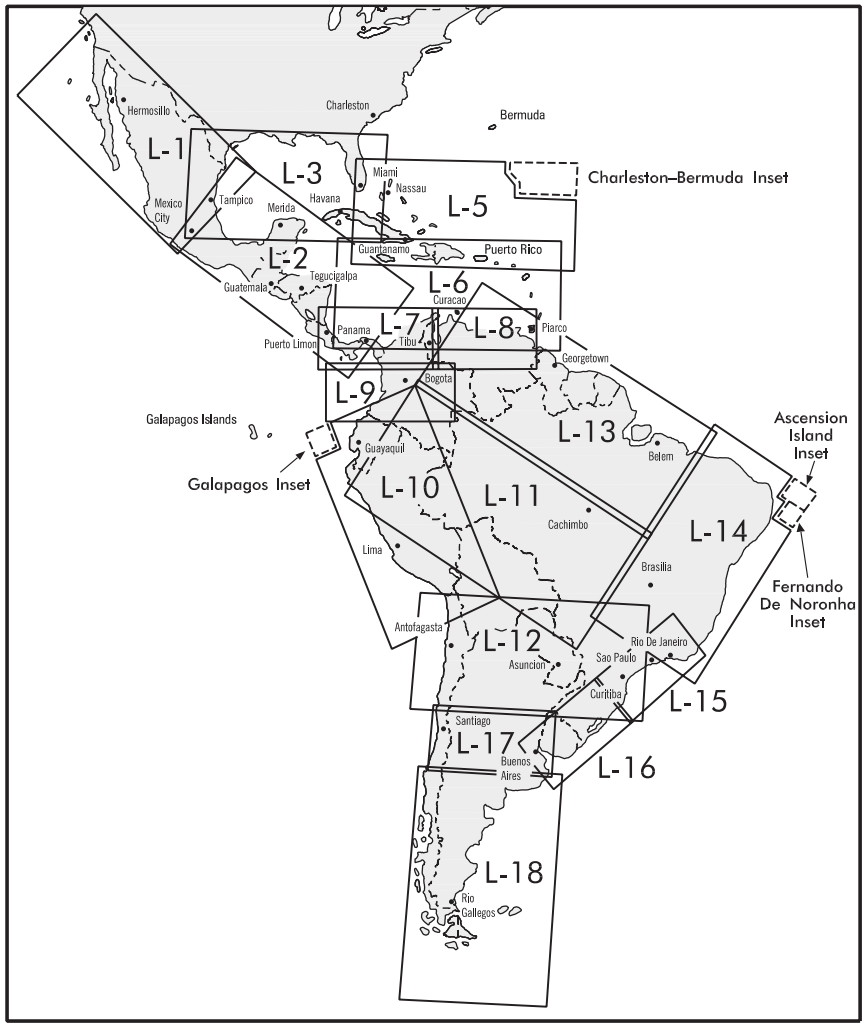


Chart T-1 depicts Buenos Aires, Guatemala City, Lima, Rio de Janeiro, and Santiago. An Antigua Island to Ascension Island route chart is included.

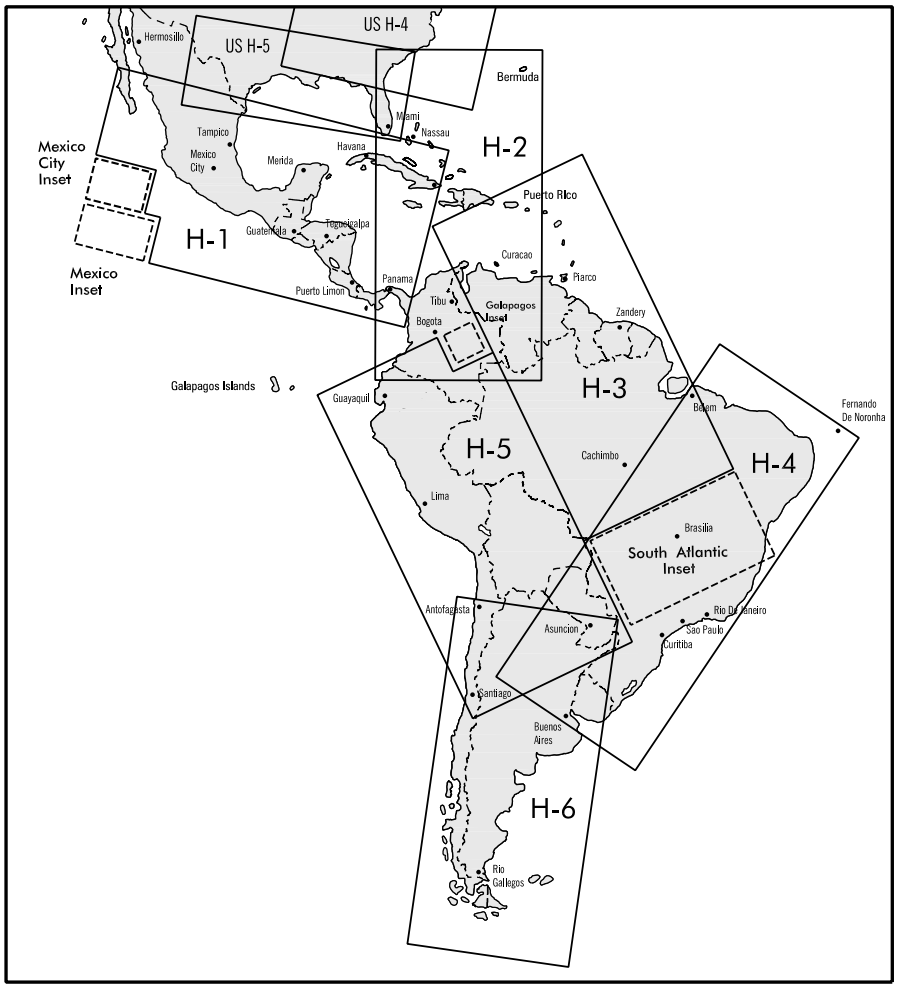
Chart T-2 depicts Bogota, Mexico City, Miami-Nassau, Panama, and Puerto Rico.

PUBLICATION	STOCK NUMBER
Caribbean and South American Set:	ELCSASET
19 Charts (10 Sheets)	
Charts L1/L2	ELCSA1
Charts L3/T2	ELCSA3
Charts L5/L6	ELCSA5
Charts L7/L8	ELCSA7
Charts L9/L10	ELCSA9
Charts L11/L12	ELCSA11
Charts Ll3/L14	ELCSA13
Charts Ll5/L16	ELCSA15
Charts Ll7/L18	ELCSA17
Terminal Area Charts (T1/T2)	ECSAA1
Supplement	ECSASUP

Caribbean and South America - High Altitude

Six charts (3 sheets) printed back-to-back, accordion folded (approximately 5 by 10 inches), portray the airway system and related data required for IFR operation in this area. Two insets, one covering the northwest Mexican area not covered by the U.S. high altitude charts, and another covering Mexico City, are included on Chart 1. An inset for the South Atlantic is included on Chart 3. An inset for Galapagos Island is included on Chart 5. The charts may be joined to form a wall planning chart.

A *Supplement* (approximately 5 by 8 inches) contains an alphabetical IFR/VFR airport/heliport facility directory, airport sketches, and data required to support the *Enroute* and *Area Charts*. The charts and the *Supplement* are revised every 16 weeks. An *Enroute Change Notice (ECN)* is published at the 8th week interval between volume issues for update purposes. *Urgent Change Notices (UCNs)* are published as required.

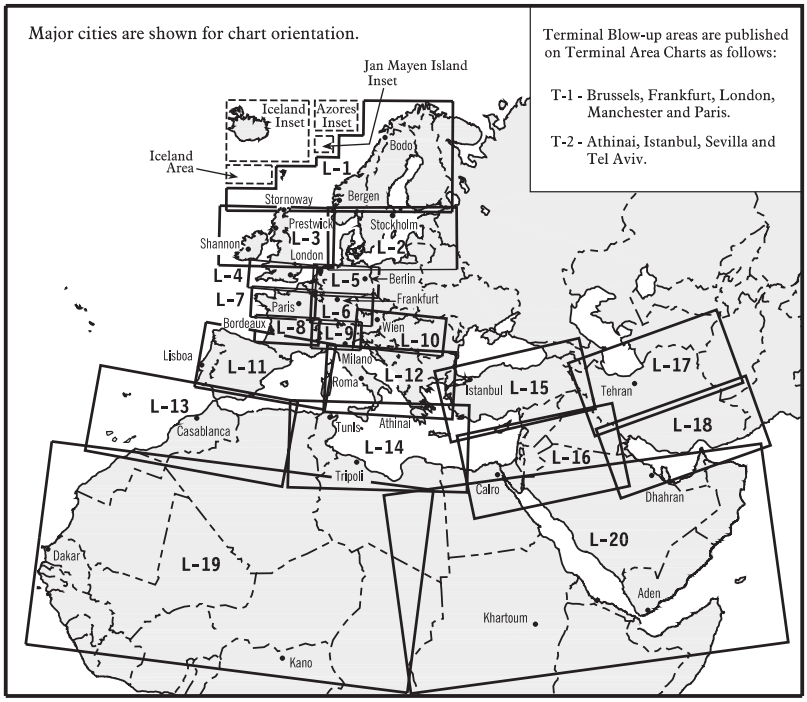


PUBLICATION	STOCK NUMBER
High Altitude: 6 Charts (3 Sheets)	EHCSASET
H 1/2	EHCSA1
H 3/4	EHCSA3
H 5/6	EHCSA5
Supplement	ECSASUP

Europe, North Africa, and Middle East - Low Altitude

Twenty-four charts (12 sheets) printed back-to-back, accordion folded (approximately 5 by 10 inches), provide information required for IFR operations in this area. Chart 1 includes insets for the Azores, Jan Mayen, and an enlargement for the Iceland area. A Leeds/ Bradford enlargement is on Chart 3. The charts are issued every 4 weeks.

Two *Terminal Area Charts*, revised every 4 weeks, contain arrival and departure routes for 9 selected terminal areas. They are included in the set subscription.



T-1 depicts Arrival for Brussels, Frankfurt, London, Manchester and Paris.
T-2 depicts Arrival for Athinai, Istanbul, Sevilla and Tel Aviv.

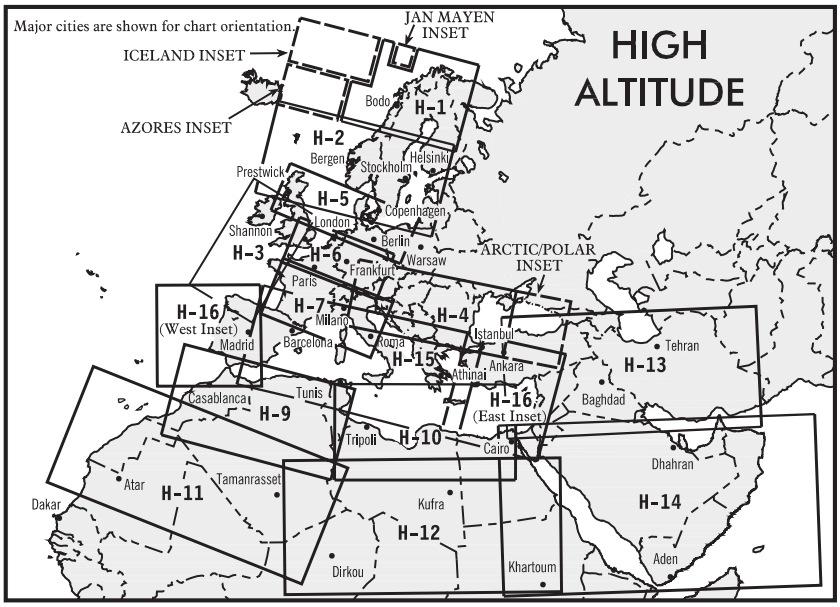
A bound *Supplement* contains an alphabetical IFR/VFR airport facility directory, airport sketches and data required to support the *Enroute* and *Terminal Area Charts*. The *Supplement* and the *Enroute Charts* are revised every 4 weeks. *Urgent Change Notices (UCNs)* are published as required. Available by subscription only.

PUBLICATION	STOCK NUMBER
Low Altitude: L1/2-L19/20,T1/2	ELEURSET
Charts L1 /L2	ELEUR1
Charts L3/L4	ELEUR3
Charts L5/L6	ELEUR5
Charts L7/L8	ELEUR7
Charts L9/L10	ELEUR9
Charts L11 /L12	ELEUR11
Charts L13/L14	ELEUR13
Charts L15/L16	ELEUR15
Charts L17/L18	ELEUR17
Charts L1 9/1-20	ELEUR19
Terminal Area Charts: 2 Charts (1 Sheet)	
Charts T1/T2	EEURT1
Supplement	EEURSUP

Europe, North Africa, and Middle East - High Altitude

Sixteen charts printed back-to-back, accordion folded (approximately 5 by 10 inches), present data required for IFR operation in this area. Insets for the Azores, Iceland and Jan Mayen are shown on chart 1. An Arctic Polar Inset is shown on Chart 4. Charts 5, 6, and 7 are enlargements of central Europe.

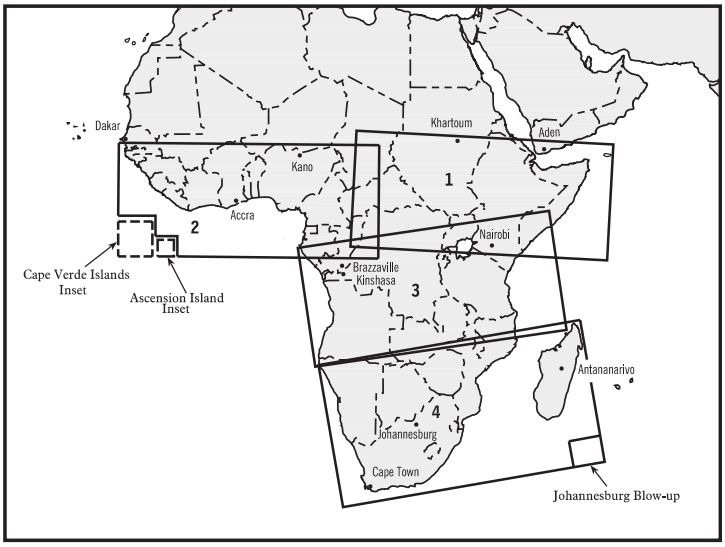
A bound *Supplement* contains an alphabetical IFR/VFR airport facility directory, airport sketches and data required to support the *Enroute* and *Terminal Area Charts*. The *Supplement* and the *Enroute Charts* are revised every 4 weeks. *Urgent Change Notices (UCNs)* are published as required. Available by subscription only.



PUBLICATION	STOCK NUMBER
High Altitude: 16 Charts (8 Sheets)	EHEURSET
Charts H1/H2	EHEUR1
Charts H3/H4	EHEUR3
Charts H5/H6	EHEUR5
Charts H7/H8	EHEUR7
Charts H9/H10	EHEUR9
Charts H11/H12	EHEUR11
Charts H13/H14	EHEUR13
Charts H15/H16	EHEUR15
Supplement	EEURSUP

Africa - High and Low Altitude

Four charts printed back-to-back, accordion folded (approximately 5 by 10 inches), portray IFR flight data. Island insets include Ascension and Cape Verde. An enlargement of Johannesburg is included. A combined Enroute Supplement/Terminal IAPs contains an IFR/VFR airport facility directory and related enroute data. The *Enroute Charts* and the *Supplement* are revised every 16 weeks with a combined *Enroute Change Notice/ Terminal Change Notice (ECN/TCN)* published at the 8th week interval. *Urgent Change Notices (UCNs)* are published as required.

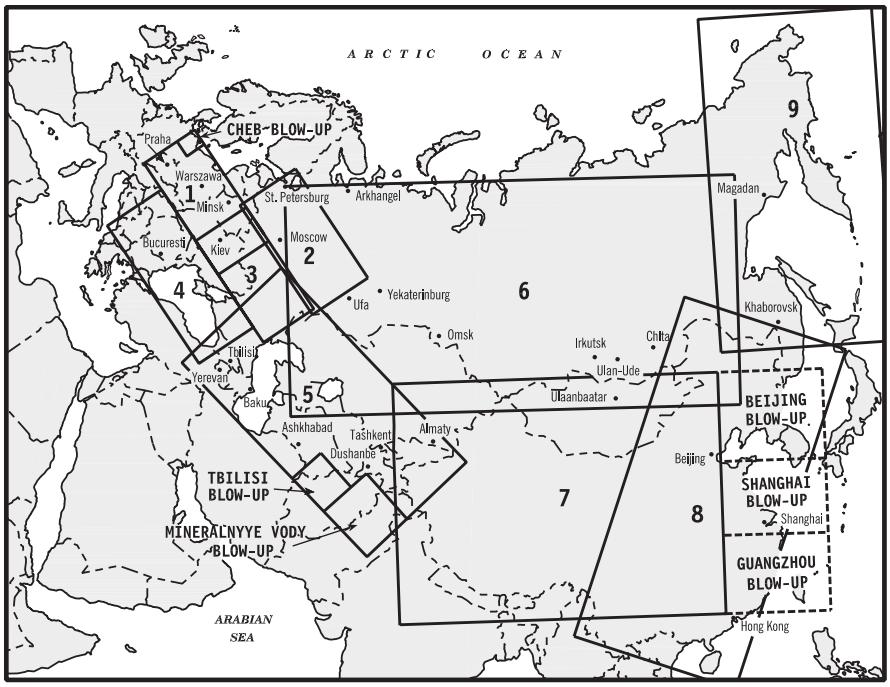


PUBLICATION	STOCK NUMBER
High/Low Africa Set: 4 Charts (2 Sheets)	EAFRSET
Charts 1 & 2	EAFR1
Charts 3 & 4	EAFR3
Supplement (also contains Terminal IAPs)	TAFRSUP

Eastern Europe and Asia - High and Low Altitude

Nine charts (five sheets) printed back-to-back, accordion folded (approximately 5 by 10 inches) provide information required for IFR flight at all altitudes in this area. The entire set includes insets for Cheb, Beijing, Guangzhou, Kiev, Mineralnyye Vody, Praha, Shanghi, and Tbilisi. Area Charts of Moscow, Kiev, Praha, and Warszawa are printed on reverse of Chart 9.

A combined *Enroute Supplement/Terminal IAPs* contains an alphabetical airport/facility directory, special notices, and procedures to support the *Enroute Charts*. The book also contains instrument approach procedures, standard instrument departures, airport diagrams, and radar instrument approach minimums. The *Enroute Charts* and the *Supplement* are revised every 16 weeks with a combined *Enroute Change Notice/Terminal Change Notice (ECN/TCN)* published at the 8th week interval between book issues for update purposes. *Urgent Change Notices (UCNs)* are published as required.



PUBLICATION	STOCK NUMBER
High/Low Altitude Set: 9 Charts (5 Sheets)	EHLEEASET
Charts 1 & 2	EHLEEA1
Charts 3 & 4	EHLEEA3
Charts 5 & 6	EHLEEA5
Charts 7 & 8	EHLEEA7
Chart 9	EHLEEA9
Supplement	TEEEAHL

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Area Arrival Charts

These multi-colored, single sheets, 15-1/2 by 20 inches (5 by 7-3/8 inches folded), provide aircrews with a 50 nm radius depiction (scale 1:500,000) of terrain data and low altitude airways for navigation during enroute/terminal transition to or from selected airports. Data required for navigation under instrument meterological conditions are included. Selected airports, special use airspace, tint contours, and the highest spot/obstruction elevations are also shown. The chart issue cycles coincide with the respective world area FLIP cycles.

FLIP Area (4 week cycle)

Europe, North Africa, and Middle East (10 charts - Available by subscription only)

AREA ARRIVAL CHART	STOCK NUMBER	AREA ARRIVAL CHART	STOCK NUMBER
Europe-N Afr & ME-set	AACEURSET	Athinai/Incirlik	AACATHINA
Napoli/Pisa	AACNAPOLI	Frankfurt/Ramstein	AACFRANK
Madrid/Aviano	AACMADRID	Bardufoss/Prestwick	AACBARDUF

FLIP Area (8 week cycle)

Alaska (3 charts)

AREA ARRIVAL CHART	STOCK NUMBER
Alaska-set	AACAKSET
Fairbanks/Anchorage	AACFAIRB
Adak	AACADAK

United States, Greenland (10 charts)

AREA ARRIVAL CHART	STOCK NUMBER	AREA ARRIVAL CHART	STOCK NUMBER
US-Greenland-set	AACUSSET	Las Vegas/Albuquerque	AACLASVEG
Seattle/Salt Lake City	AACSEATT	Denver/Colorado Springs	AACDENVER
San Francisco/San Diego	AACSANFRA		
Los Angeles/Palmdale	AACLOSAN		

FLIP Area (8 week cycle)

Caribbean and South America (4 charts)

AREA ARRIVAL CHART	STOCK NUMBER
Caribbean-S America-set	AACCSASET
Rio de Janeiro/Santiago	AACRIO
La Paz/Lima	AACLAPAZ

Africa (1 chart)

AREA ARRIVAL CHART	STOCK NUMBER
Africa	
Johannesburg	AACJOHAN

Pacific, Australasia, and Antarctica (11 charts)

AREA ARRIVAL CHART	STOCK NUMBER	AREA ARRIVAL CHART	STOCK NUMBER
Pacific-Aus & Ant-set	AACPAASET	Kimhae/Fukuoka	AACKIMHAE
Osan/Yechon	AACOSAN	Atsugi/Iwakuni	AACATSUGI
Kunsan/Kwangju	AACKUNSAN		
Taegu/Pohang	AACTAEGU		

FLIP TERMINAL INSTRUMENT APPROACH PROCEDURES (IAPS)

The Department of Defense (DoD) terminal instrument approach procedure publications provide data in support of DoD IFR landings. They are published in bound volumes (approximately 5 by 8 inches). See graphic on page 17.

Africa

High and *Low IAPs* are combined with the *Enroute Supplement* and published in one book every 16 weeks. Standard instrument departures, airport diagrams, and radar approach minimums are included for certain civil and military airports. A combined *Enroute Change Notice/Terminal Change Notice (ECN/TCN)* is published at the 8th week interval. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
High/Low Volume (also contains the Enroute Supplement)	TAFRSUP

Canada and North Atlantic

High and *Low IAPs* are published in one book every 24 weeks. Standard instrument departures, airport diagrams and radar approach minimums are included for certain civil and military airports. A cumulative *Terminal Change Notice (TCN)* is published at 8 week intervals. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
High/Low Volume	TCNA

Caribbean and South America

High and *Low IAPs* are published in two books every 16 weeks. Standard instrument departures, airport diagrams, and radar approach minimums are included for certain civil and military airports. A *Terminal Change Notice (TCN)* is published at the 8th week interval. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
High/Low Set (2 Volumes)	TCSASET
Volumn 1	TCSA1
Volumn 2	TCSA2

Eastern Europe and Asia

High and *Low IAPs* are combined with the *Enroute Supplement* and published in one book every 16 weeks. Standard instrument departures, airport diagrams and radar approach minimums are included for certain civil and military airports. A combined *Enroute Change Notice/Terminal Change Notice (ECN/TCN)* is published at the 8th week interval. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
High/Low Volume (also contains the Enroute Supplement)	TEEEAHL

Europe, North Africa, and Middle East

High and *Low Altitude IAPs* are combined in seven volumes published every 8 weeks. Standard instrument departures, airport diagrams, radar approach minimums, and standard terminal arrivals are included for certain civil and military airports. The volumes are divided geographically. A *Terminal Change Notice (TCN)* is published at mid interval (4 weeks). *Urgent Change Notices (UCNs)* are published as required. See graphic on page 17.

PUBLICATION	STOCK NUMBER
High/Low set (7 Volumes)	TEURSET
Volume 1	TEUR1
Volume 2	TEUR2
Volume 3	TEUR3
Volume 4	TEUR4
Volume 5	TEUR5
Volume 6	TEUR6
Volume 7	TEUR7

Pacific, Australasia, and Antarctica

High and *Low Altitude IAPs* are combined in three volumes published every 24 weeks. Standard instrument departures, airport diagrams, radar approach minimums, and standard terminal arrivals (STARs for Hawaii) are included for certain civil and military airports. The volumes are divided geographically. A cumulative *Terminal Change Notice (TCN)* is published at 8 week intervals. *Urgent Change Notices (UCNs)* are published as required. See graphic on page 18.

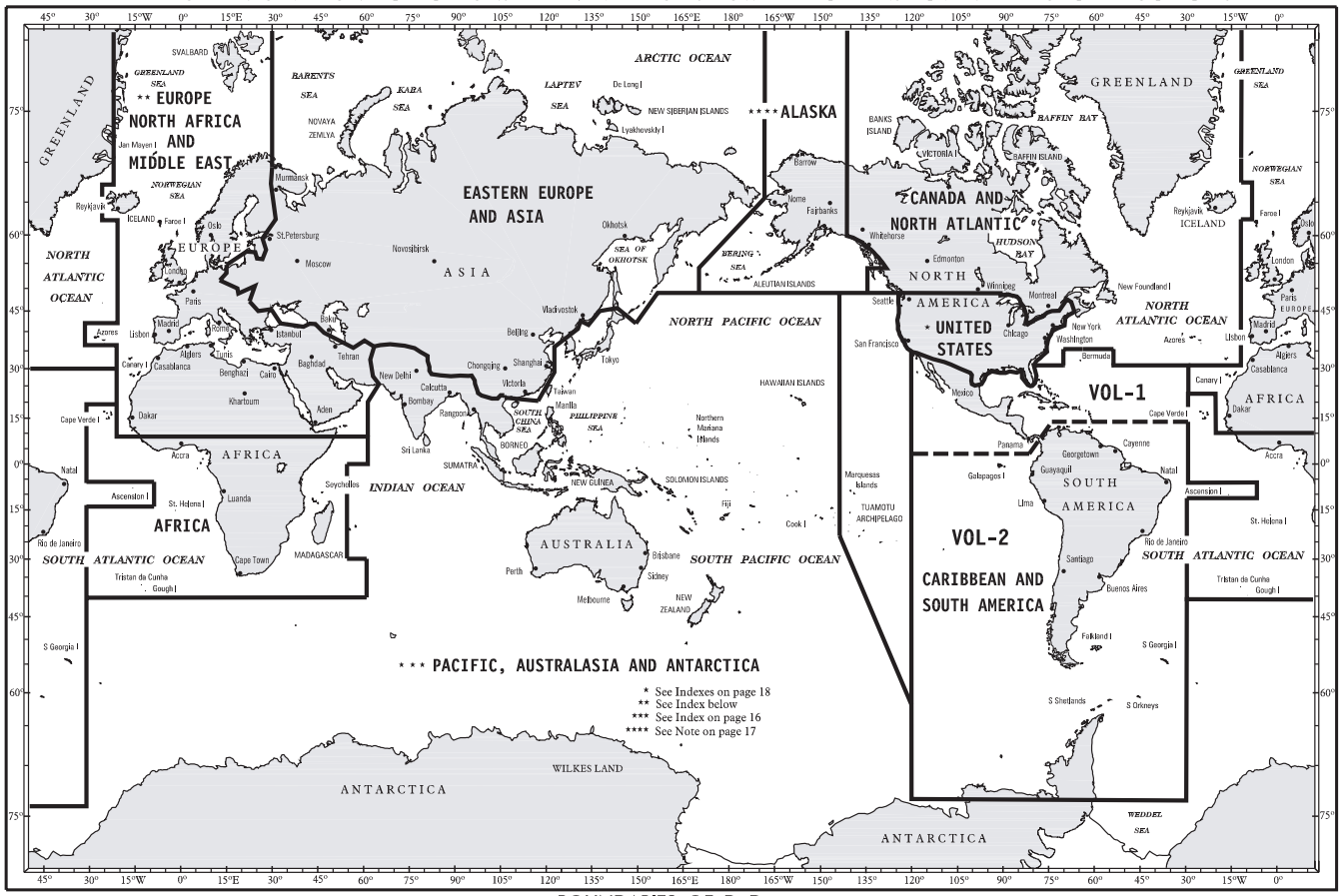
PUBLICATION	STOCK NUMBER
High/Low set (3 Volumes)	TPAASET
Volume 1	TPAA1
Volume 2	TPAA2
Volume 3	TPAA3

VFR Arrival/Departure Routes. This 51/4 by 8 inch bound booklet is designed to satisfy DoD requirements for established VFR arrival and departure routings. The booklet is revised every 16 weeks. *Urgent Change Notices (UCNs)* are published as required.

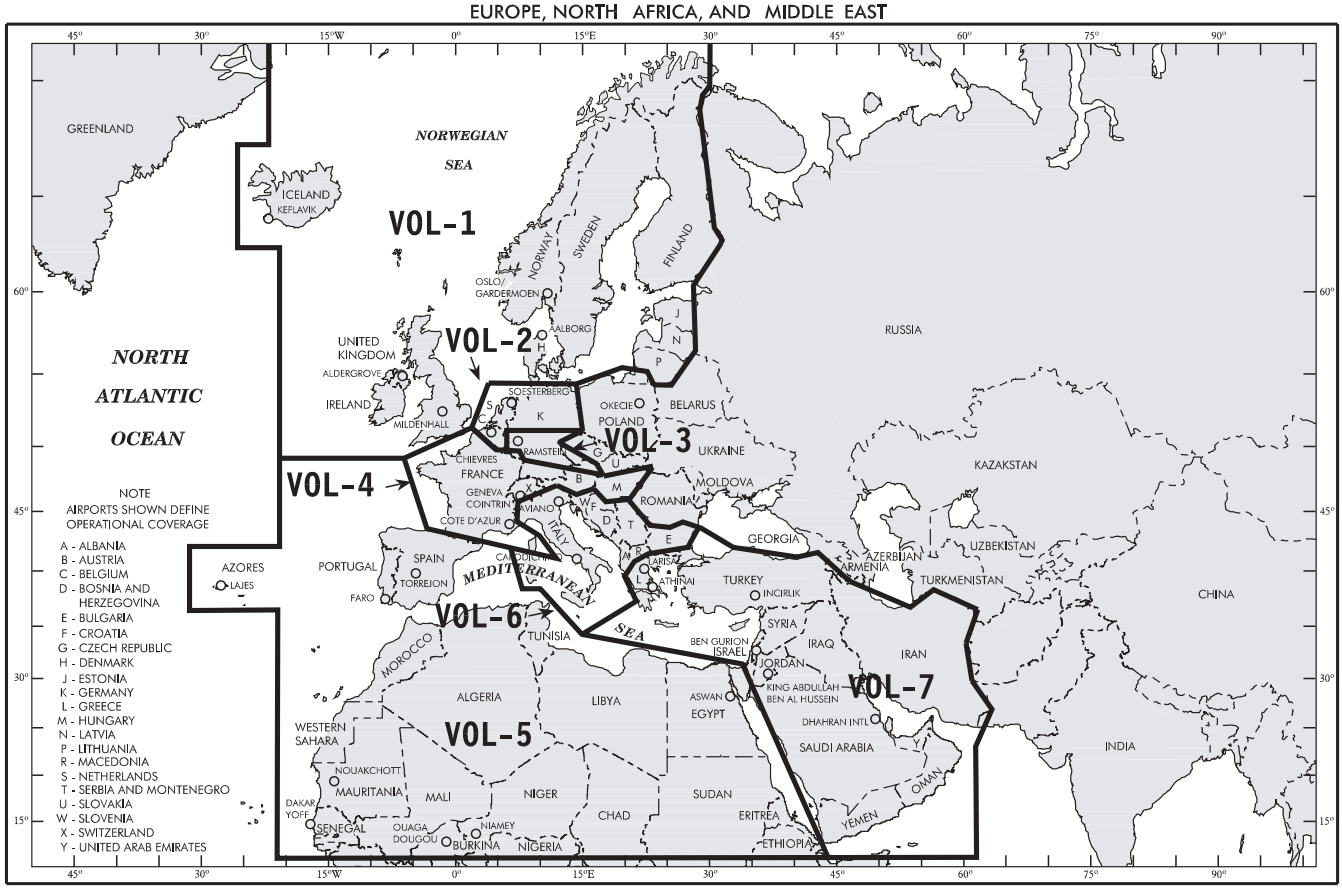
PUBLICATION	STOCK NUMBER
Europe	VFRADREUR
Korea	VFRADRKOR

NOTE: For technical assistance regarding Flight Information Publications, contact NIMA St. Louis, ATTN: GIMA, Stop L-27, 3200 South Second St., St. Louis, MO 63118-3399, Tel: 314-263-4806, Fax: 314-263-4247; E-mail: (chdesk@NIMA.mil).

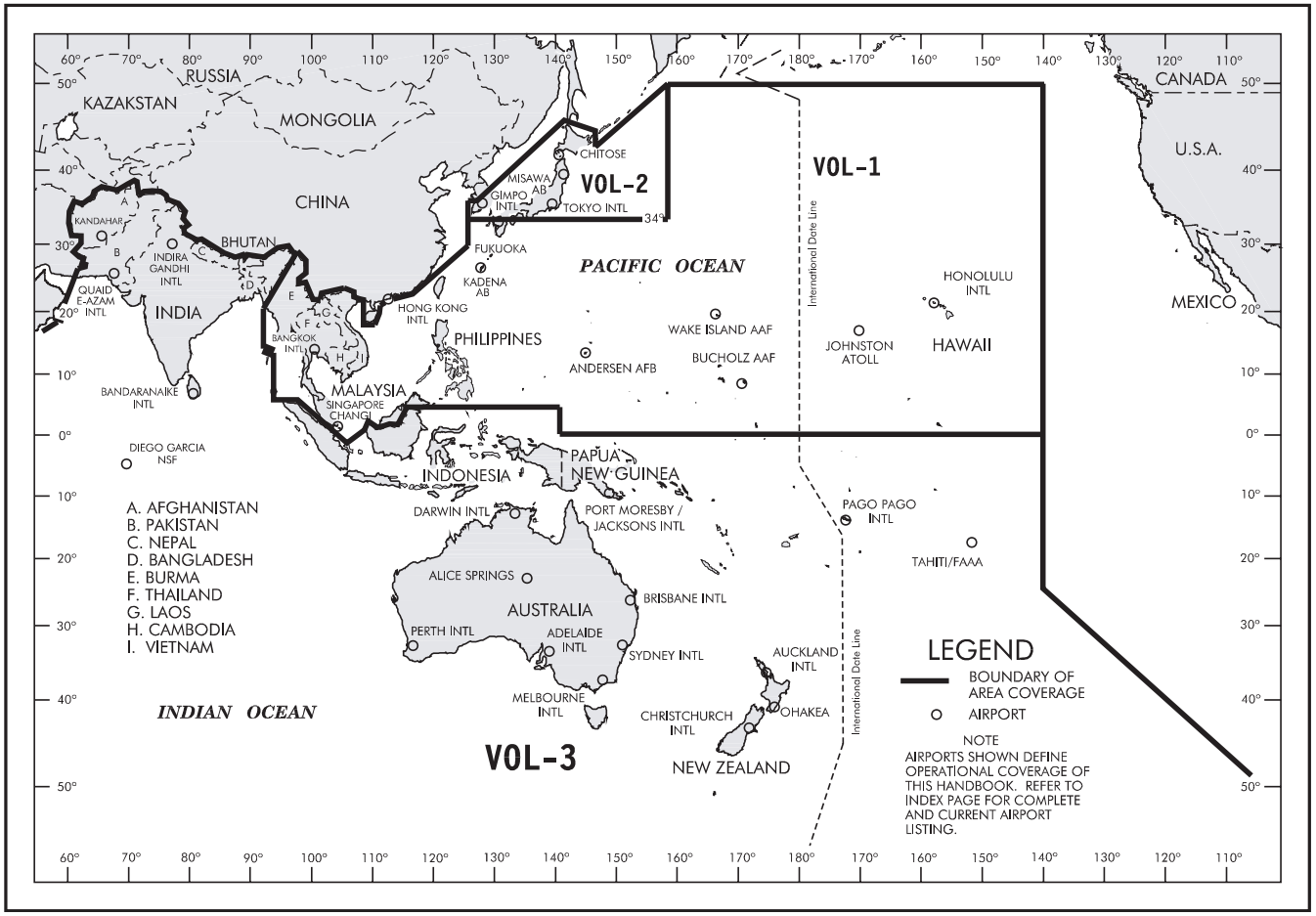
BOUNDARIES OF DoD
FLIGHT INFORMATION PUBLICATIONS – TERMINAL–HIGH / LOW ALTITUDE INSTRUMENT APPROACH PROCEDURES



BOUNDARIES OF DoD
FLIGHT INFORMATION PUBLICATIONS – TERMINAL–HIGH / LOW ALTITUDE INSTRUMENT APPROACH PROCEDURES
EUROPE, NORTH AFRICA, AND MIDDLE EAST



BOUNDARIES OF DOD FLIGHT INFORMATION PUBLICATIONS - TERMINAL HIGH AND LOW ALTUTUDE INSTRUMENT APPROACH PROCEDURES PACIFIC, AUSTRALIA. AND ANTARCTICA



PACIFIC, AUSTRALIA, AND ANTARTICA COVERAGE

United States

High Altitude IAPs are published in 3 volumes and *Low Altitude IAPs* are published in 22 volumes (approximately 5 by 8 inches each). These volumes are published every 8 weeks. Volumes include airport diagrams, standard instrument departures, and radar instrument approach minimums for selected civil and all military airports. A *Terminal Change Notice (TCN)* for *Low Altitude IAPs* is published at the 4th week interval between volume issues for update purposes. See graphics on page 20. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
High (3 Volume) Set	THUSSET
East	THUSE
Southwest	THUSSW
Northwest	THUSNW

PUBLICATION	STOCK NUMBER
Low (22 Volume) Set	TLUSSET
Volume 1	TLUS1
Volume 2	TLUS2
Volume 3	TLUS3
Volume 4	TLUS4
Volume 5	TLUS5
Volume 6	TLUS6
Volume 7	TLUS7
Volume 8	TLUS8
Volume 9	TLUS9
Volume 10	TLUS10
Volume 11	TLUS11
Volume 12	TLUS12
Volume 13	TLUS13
Volume 14	TLUS14
Volume 15	TLUS15
Volume 16	TLUS16
Volume 17	TLUS17
Volume 18	TLUS18
Volume 19	TLUS19
Volume 20	TLUS20
Volume 21	TLUS21
Volume 22	TLUS22

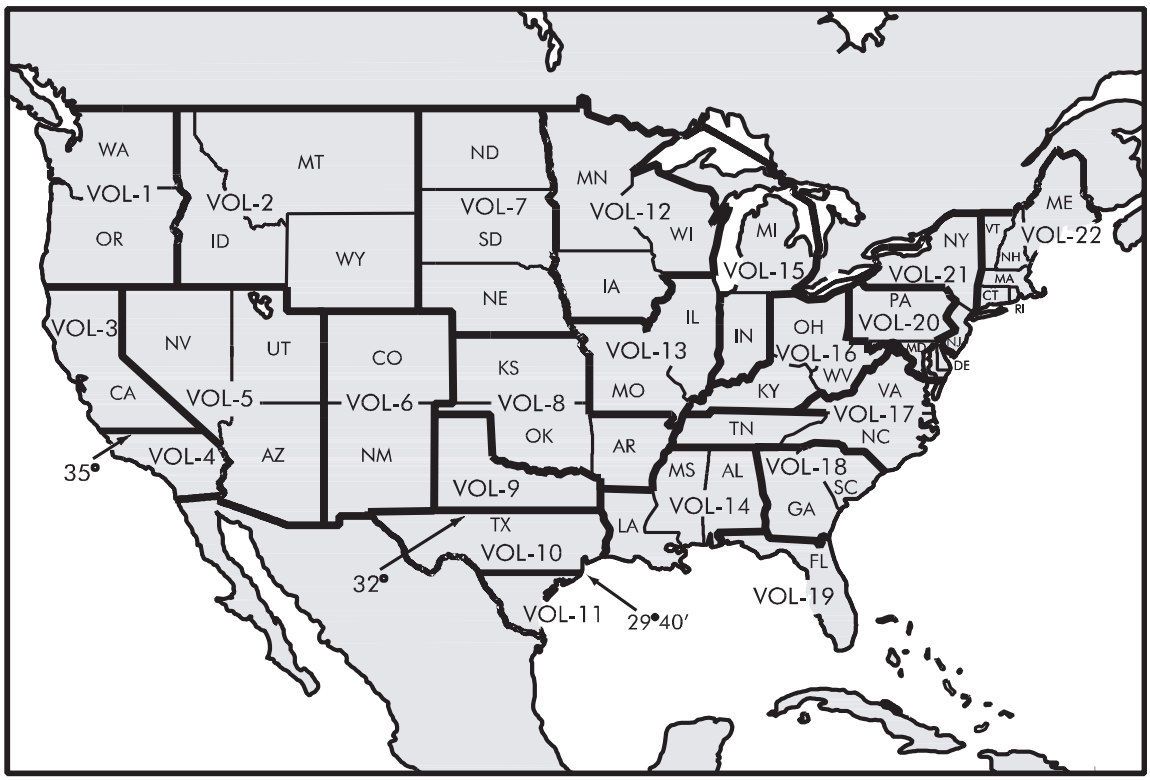
Civil Standard Terminal Arrivals (STARs) are published in one volume every 8 weeks. The book contains all civil standard terminal arrivals, profile descent procedures, and airport diagrams for the lower 48 United States. *Urgent Change Notices (UCNs)* are published as required.

PUBLICATION	STOCK NUMBER
STARs	TSTARUS

Civil Standard Instrument Departures (SIDs) are published in 22 volumes every 8 weeks. All volumes contain civil standard instrument departures, and airport diagrams for the lower 48 United States. *Urgent Change Notices (UCNs)* are published as required. See graphic on page 20.

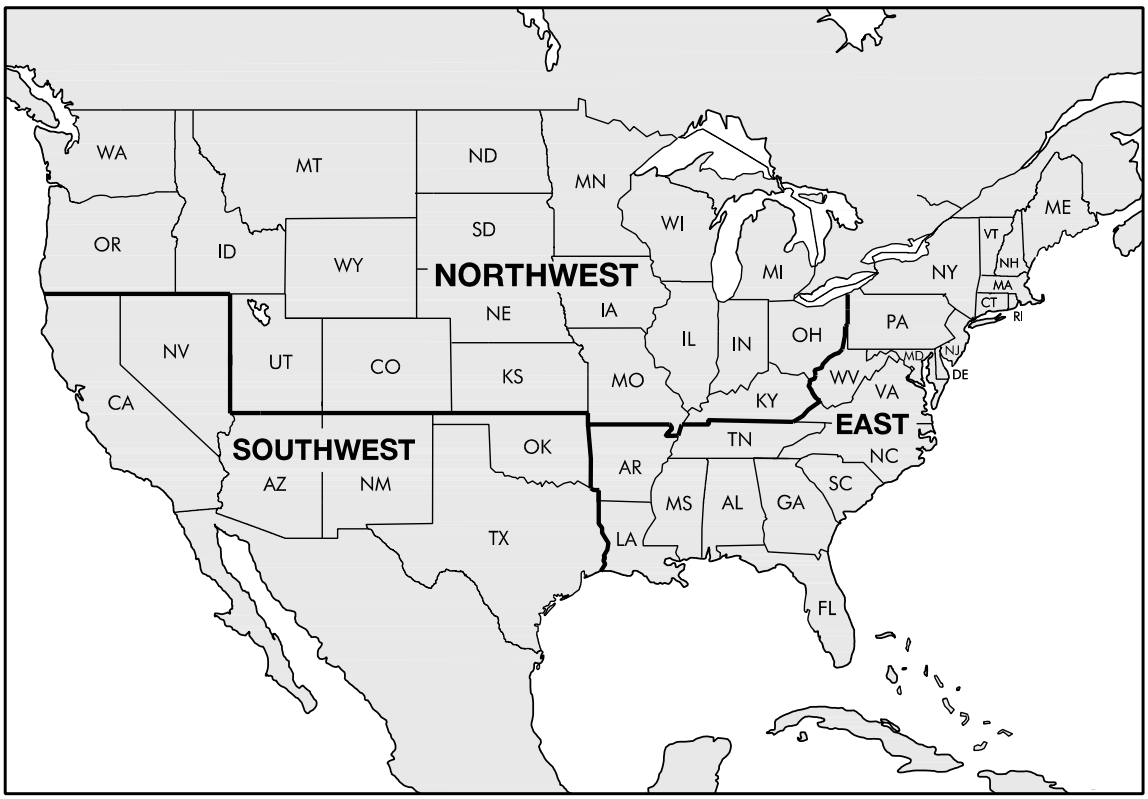
NOTE: Instrument Approach Procedures (IAPs), Standard Instrument Departures (SIDs), Standard Terminal Arrivals (STARs), Profile Descent Charts, and Airport Diagrams are included in the FAA/NACO U.S. Terminal Procedures Publication. See the free catalog of FAA-produced Aeronautical Charts and Related Products. (Stock Number ACATSET) and corresponding Dates of Latest Editions (Stock Number 5318).

BOUNDARIES OF DOD FLIGHT INFORMATION PUBLICATION TERMINAL UNITED STATES



Low Altitude - 22 Volumes

BOUNDARIES OF DOD FLIGHT INFORMATION PUBLICATION TERMINAL UNITED STATES



High Altitude - 3 Volumes

MISCELLANEOUS DOD CHARTS AND PRODUCTS

Aeronautical Chart Updating Manual (CHUM). NGA publishes the CHUM semiannually with cumulative monthly supplements. The CHUM contains Miscellaneous Notices and all known corrections to NGA and most FAA charts affecting flight safety. Current chart edition numbers and dates for all NGA charts with or without corrections are listed in the CHUM. CHUM information can be found on the Internet at: http://164.214.2.62/products/webchum/index.cfm

PUBLICATION	STOCK NUMBER
Manual	CHUM
Monthly Supplement	CHUMSUP

DoD Weather Plotting Charts (WPC). These non-navigational outline charts show locations and identifications of weather observing stations. They are used to forecast and monitor weather and atmospheric conditions throughout the world. See graphics and illustrations on page 22 through page 32. (Various scales)

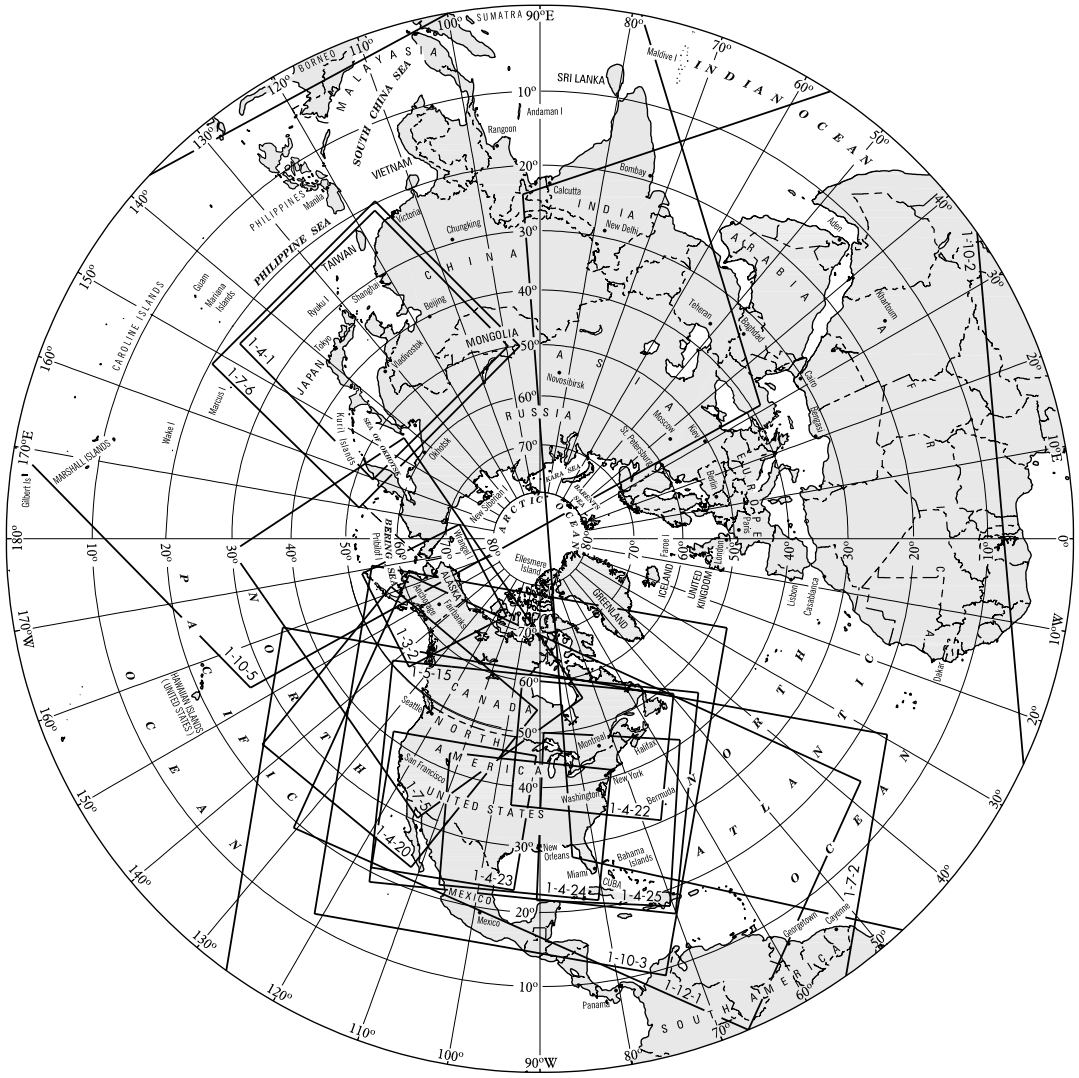
STOCK NUMBER	STOCK NUMBER	STOCK NUMBER	STOCK NUMBER
SLC1	WP2107	WP3303A	WP6202
SLC2	WP2108	WP3303B	*WP771A
SLC3P1	WP21510	WP3303C	*WP771B
SLC3P2	WP21511	WP3303D	*WP7155
SLC4	WP21512	WP3304	WP916
SLC5	WP21513	WP3304A	WP916A
SLC6	WP2202	WP3304C	WP9162
WP132	WP311	WP3304D	WP9164
WP141	WP321	WP4152	WP920A
WP1420	WP353	WP4153	WP920B
WP1422	WP371	WP554	WP920C
WP1423	WP372	WP572	WP923
WP1424	WP373	WP579	WP9241
WP1425	WP374	WP5151	WP925
WP1515	WP375	WP5153	WP931A
WP172	WP3101	WP5159	WP931B
WP175	WP3153	WP51514A	WP931C
WP176	WP3154	WP51514B	WP1042
WP1102	WP31511	WP51515A	WP1043
WP1103	WP31512	WP51515B	WP1044
WP1105	WP31515	WP51516	WP10101
WP1121	WP3203	WP5303	WP10201
WP252	WP3204	WP5308	
WP271	WP3207	WP5371	
WP2102	WP3303	WP6201	

*Computer printouts for specialized use

NOTE: NGA Weather Plotting Charts will be for sale until stock is depleted.

NOTE: Users should refer corrections, additions and comments for improving NGA charts and publications to: Director, National Geospatial Intelligence Agency, ATTN: COTF, Stop P-33, 12310 Sunrise Valley Drive, Reston, VA 20191-3449; Tel: 703-264-3003/3005, Fax: 703-264-3133; E-mail: (quality@NIMA.mil); Internet: (http://www.NIMA.mil).

DEPARTMENT OF DEFENSE WEATHER PLOTTING CHARTS



WEATHER STATION DATA

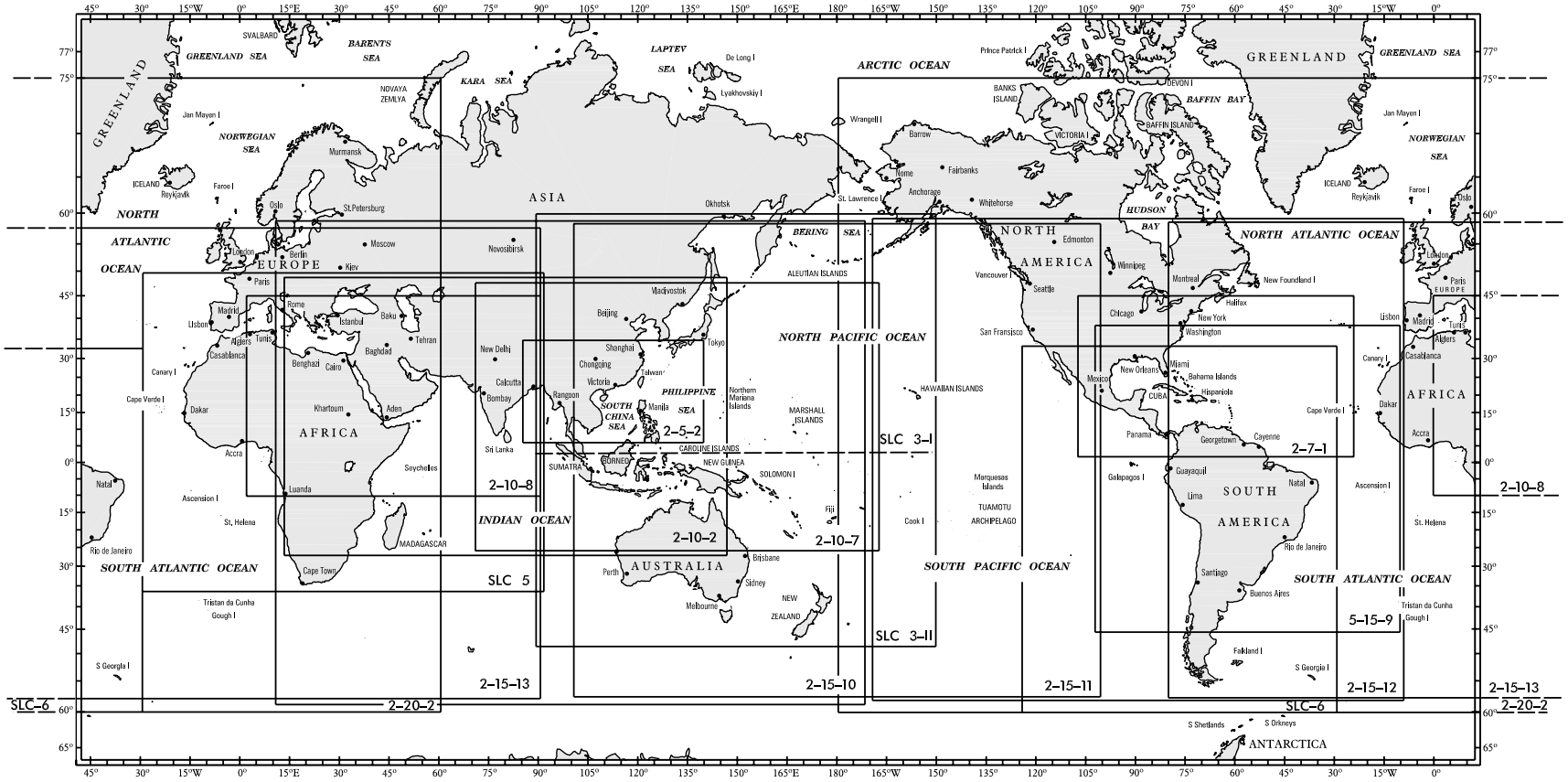
WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	HEIGHT
1-3-2	3,000,000	•			•	•	•	•	4	27.2	28.9
1-4-1	4,000,000	•			•	•	•	•	3	41.6	39.6
1-4-20	4,000,000	•			•	•	•	•	4	25.8	32.5
1-4-22	4,000,000	•			•	•	•	•	3	31.8	26.5
1-4-23	4,000,000	•			•	•	•	•	4	31.8	26.5
1-4-24	4,000,000	•			•	•	•	•	4	31.8	26.5
1-4-25	4,000,000	•			•	•	•	•	4	25.8	32.5
1-5-15	5,000,000	•		•	•	•	•	•	3	46.8	33.1
1-7-2	7,500,000	•		•	•	•	•	•	3	39.8	26.2
1-7-5	7,500,000	•			•	•	•	•	3	37.4	25.3
1-7-6	7,500,000	•			•	•		•	3	26.2	24.1
1-10-2	10,000,000	•		•	•	•		•	3	57.5	38.0
1-10-3	10,000,000	•		•	•	•		•	—	31.0	28.0
1-10-5	10,000,000	•			•	•		•	3	51.0	40.0
1-12-1	12,500,000	•			•	•	•	•	—	29.0	18.8

—NOTES—

PRINTING COLORS - BROWN: CHART DETAIL, WEATHER STATIONS AND DATA
BLUE: WATER AND WMO BLOCK BOUNDARIES

INDEX 1 FOR MIDDLE LATITUDES
(LAMBERT CONFORMAL CONIC PROJECTION)

DEPARTMENT OF DEFENSE WEATHER PLOTTING CHARTS



- NOTES -

PRINTING COLORS- BROWN: CHART DETAIL, WEATHER STATION DATA
BLUE: WMO BOUNDARY, WATER
*WPC 5-15-9-OUTLINE MAP, BLACK ONLY
**SLC'S-PRINTED MULTI-COLOR

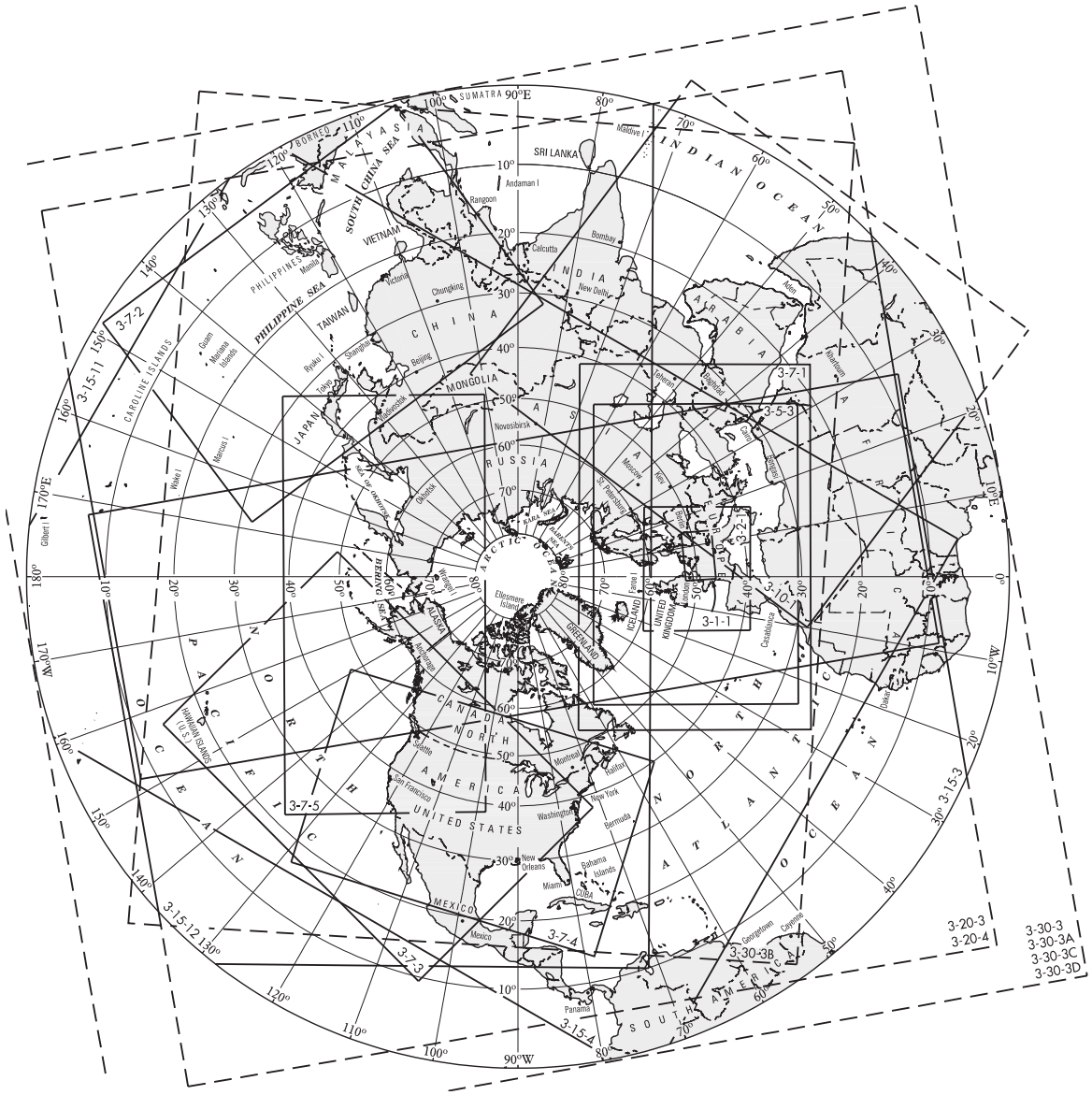
INDEX 2 FOR TROPICAL LATITUDES
(MERCATOR PROJECTION)

WEATHER STATION DATA

WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	SIZE (INCHES) HEIGHT
2-5-2	5,000,000	•		•	•	•	•	•	3	48.2	38.1
2-7-1	7,500,000	•		•	•	•	•	•	3	46.2	29.8
2-10-2	10,000,000	•		•	•	•		•	4	57.0	35.0
2-10-7	10,000,000	•		•	•	•		•	3	50.5	35.0
2-10-8	10,000,000	•		•	•	•		•	3	38.1	27.0
2-15-10	15,000,000	•			•	•	•	•	3	45.0	41.0
2-15-11	15,000,000	•			•	•	•	•	3	45.0	41.0

WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	SIZE (INCHES) HEIGHT
2-15-12	15,000,000	•			•	•	•	•	3	47.6	41.0
2-15-13	15,000,000	•			•	•	•	•	3	45.0	41.0
2-20-2	20,000,000	•			•	•	•	•	3	50.3	41.5
**SLC 3-I	10,000,000	•	•	•	•	•	•	•	-	55.5	41.4
**SLC 3-II	10,000,000	•	•	•	•	•	•	•	-	55.5	24.3
**SLC 5	11,000,000	•	•	•	•	•	•	•	7	49.6	40.0
**SLC 6	11,000,000	•	•	•	•		•	•	7	40.0	47.5

DEPARTMENT OF DEFENSE WEATHER PLOTTING CHARTS



WEATHER STATION DATA

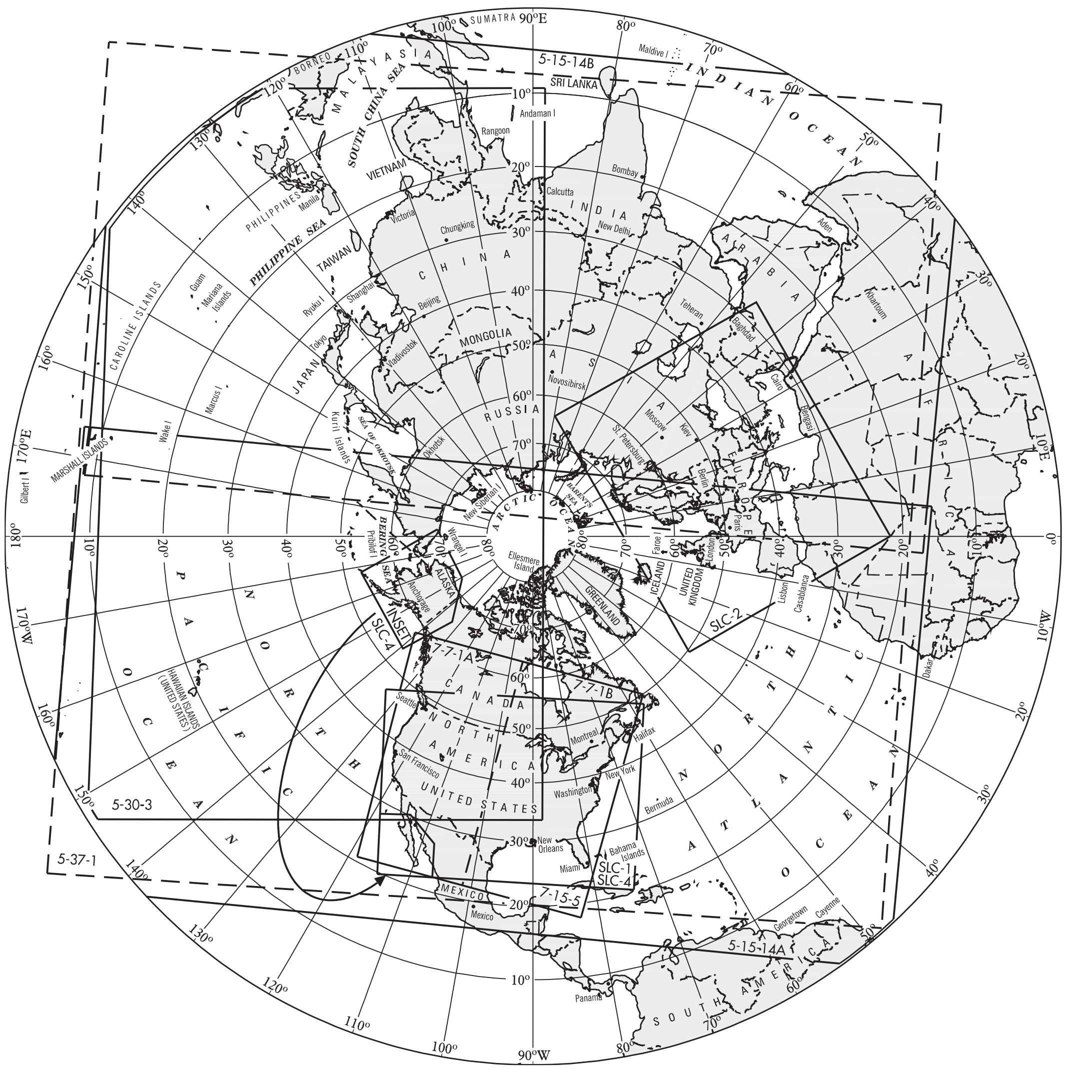
WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	HEIGHT
3-1-1	1,000,000	•	•	•	•	•	•	•	5	46.4	32.2
3-2-1	2,500,000	•			•	•	•	•	4	52.0	41.8
3-5-3	5,000,000	•			•	•	•	•	3	57.5	41.6
3-7-1	7,500,000	•			•	•	•	•	3	48.5	32.2
3-7-2	7,500,000	•			•	•		•	3	48.4	34.4
3-7-3	7,500,000	•			•	•	•	•	3	48.6	34.6
3-7-4	7,500,000	•		•	•	•	•	•	3	42.8	29.3
3-7-5	7,500,000	•		•	•	•	•	•	3	56.1	33.5
3-10-1	10,000,000	•		•	•	•		•	3	39.0	33.8
3-15-3	15,000,000	•			•		•	•	2	54.1	41.7
*3-15-4	15,000,000	•			•		•	•	–	54.1	41.7
*3-15-11	15,000,000	•			•		•	•	2	54.1	41.7
3-15-12	15,000,000	•			•		•	•	2	57.5	41.6
3-20-3	20,000,000	•			•		•	•	2	40.3	43.9
3-20-4	20,000,000		•	•	•		•	•	2	40.4	43.9
*3-30-3	30,000,000								–	33.5	34.2
*3-30-3A	30,000,000								–	33.5	34.7 OVERLAY
*3-30-3B	30,000,000								–	24.5	28.8 OVERLAY
*3-30-3C	30,000,000	•						•	–	33.5	34.7 OVERLAY
*3-30-3D	30,000,000		•	•			•	•	–	33.5	34.7 OVERLAY

—NOTES—

PRINTING COLORS - BROWN: CHART DETAIL, WEATHER STATIONS AND DATA
BLUE: WATER AND WMO BLOCK BOUNDARIES
*BLACK: AFGWC IJ GRID AND VALUES

INDEX 3 FOR NORTHERN HEMISPHERE/HIGH LATITUDES
(POLAR STEREOGRAPHIC PROJECTION)

DEPARTMENT OF DEFENSE WEATHER PLOTTING CHARTS



WEATHER STATION DATA

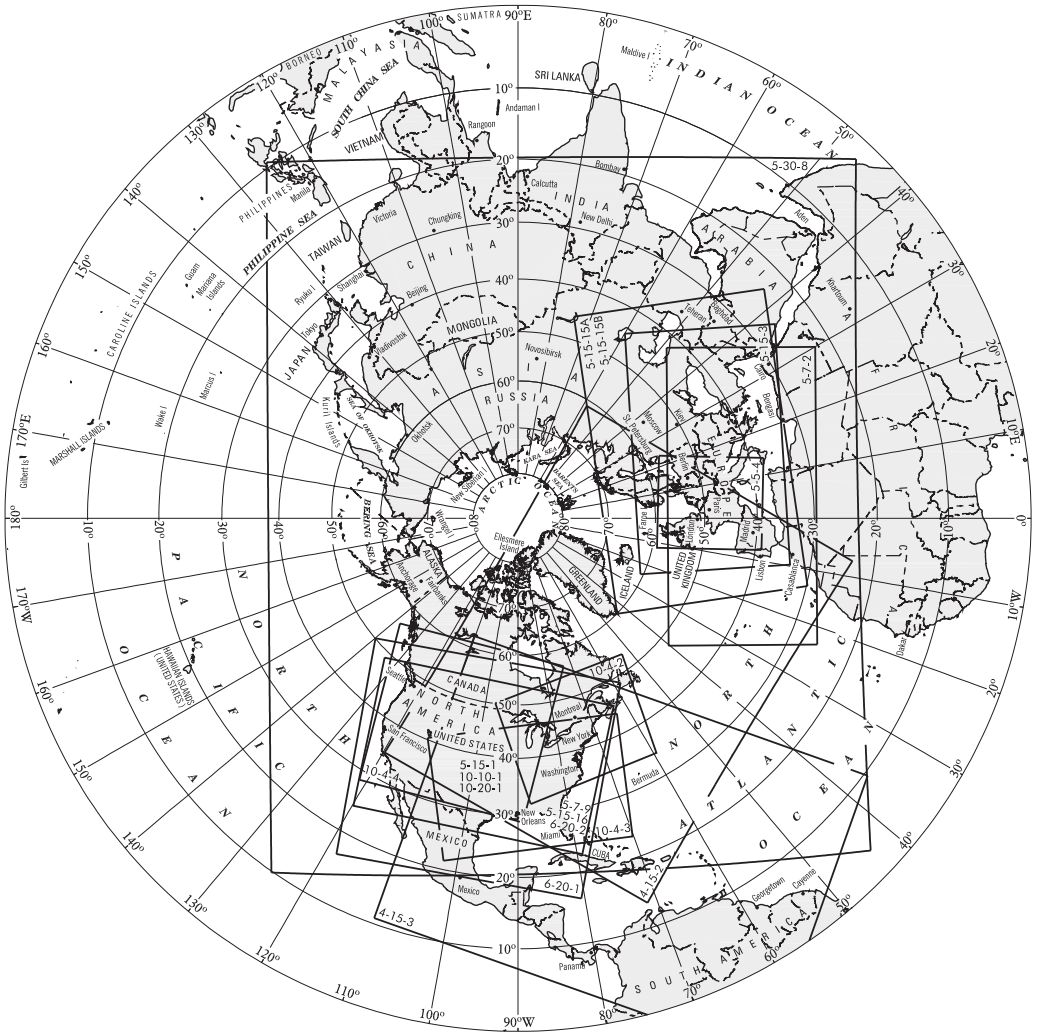
WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	HEIGHT
*5-15-14A	15,000,000	SHIP STATIONS ONLY					•		--	50.0	27.0
*5-15-14B	15,000,000	SHIP STATIONS ONLY					•		--	50.0	27.0
*5-30-3	30,000,000	SHIP STATIONS ONLY					•		--	21.4	13.5
5-37-1	37,500,000	SHIP STATIONS ONLY					•		--	20.1	21.0
7-7-1A	7,500,000	•	•	•	•	•	•	•	3	14.0	24.0
7-7-1B	7,500,000	•	•	•	•	•	•	•	3	14.0	24.0
7-15-5	15,000,000	•	•	•	•	•	•	•	1	14.0	14.8
**SLC-1	5,000,000	•	•	•	•	•	•	•	7	46.3	31.4
**SLC-2	5,000,000	•	•	•	•	•	•	•	--	42.8	41.5
**SLC-4	5,000,000	VOR/TVOR, VORTAC, TACAN RADIO FAC.							7	46.4	34.4

—NOTES—

PRINTING COLORS - BROWN: CHART DETAIL, WEATHER STATION SYMBOLS
BLUE: CONTOURS, WMO BOUNDARY, WEATHER STATION IDENTIFIERS
*BLACK ONLY
**MULTI-COLOR / LAMBERT CONFORMAL CONIC PROJECTION

INDEX 4 FOR FACSIMILE/COMPUTER AND MISCELLANEOUS CHARTS
(POLAR STEREOGRAPHIC PROJECTION)

DEPARTMENT OF DEFENSE WEATHER PLOTTING CHARTS



WEATHER STATION DATA

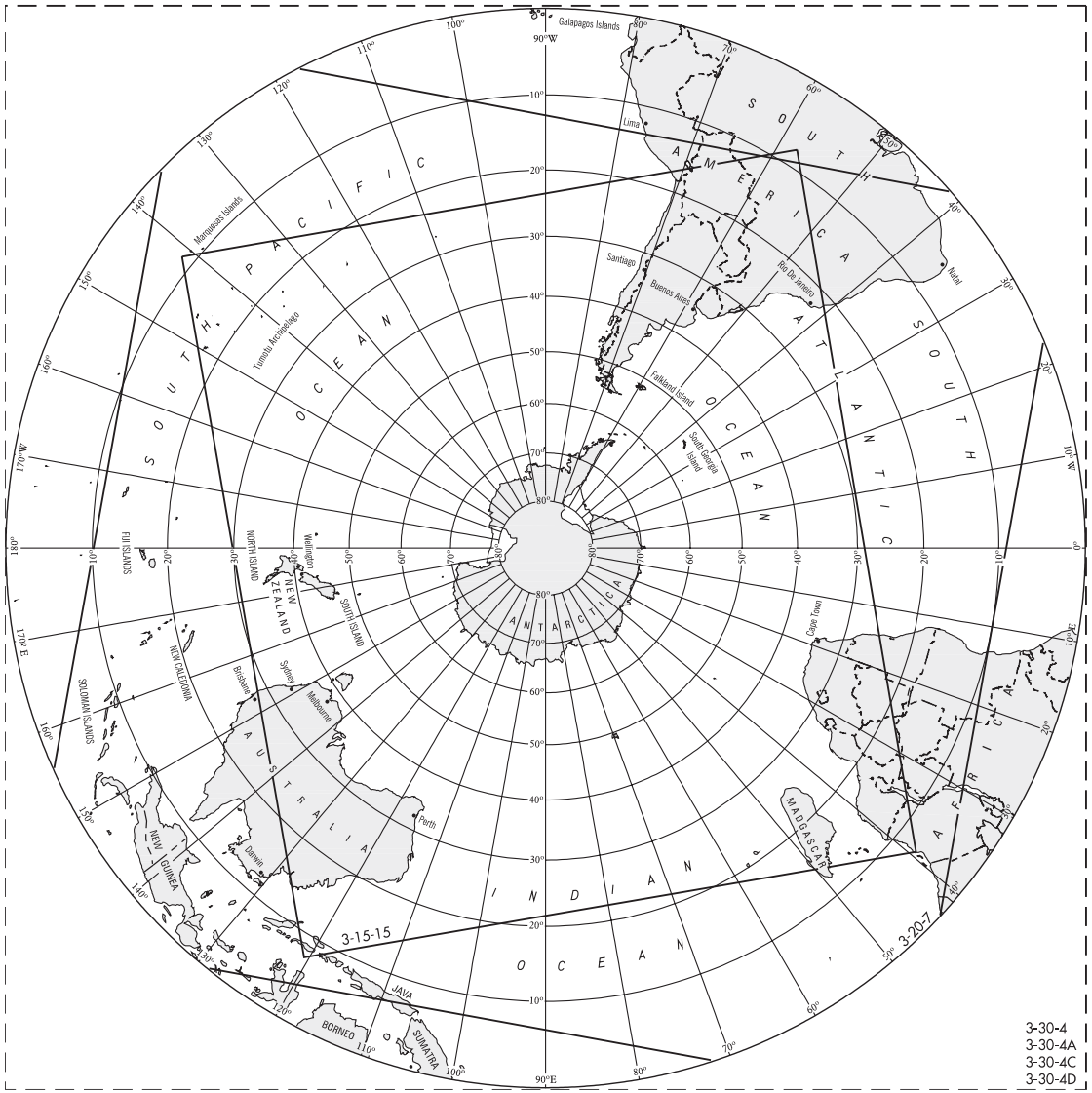
WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	HEIGHT	
*4-15-2	15,000,000								—	24.0	18.6	
*4-15-3	15,000,000								—	24.0	18.6	
5-5-4	5,000,000	•			•		•	•	—	15.1	17.1	
5-7-2	7,500,000	•			•	•	•	•	—	29.0	18.6	
*****5-7-9	7,500,000	•		•	•	•	•	•	—	30.0	23.4	
*5-15-1	15,000,000								—	18.0	11.0	OUTLINE MAP
**5-15-3	15,000,000		•	•	•			•	—	15.0	18.0	TWO PANEL
*5-15-15A	15,000,000								—	18.0	26.0	TWO PANEL
*5-15-15B	15,000,000								—	18.0	26.0	TWO PANEL
*5-15-16	15,000,000								—	18.0	11.0	OUTLINE MAP
*5-30-8	30,000,000	SHIP STATIONS ONLY					•		—	21.2	18.0	
***6-20-1	20,000,000								—	17.0	12.0	
****6-20-2	20,000,000		•	•	•		•	•	—	18.6	12.2	FOUR PANEL
*10-4-2	4,000,000								—	31.2	20.7	OVERLAY
*10-4-3	4,000,000								—	38.2	20.0	OVERLAY
*10-4-4	4,000,000								—	32.0	36.0	OVERLAY
*10-10-1	10,000,000									22.0	18.0	OVERLAY
*10-20-1	20,000,000									11.1	7.8	OVERLAY

— NOTES —

PRINTING COLORS - BROWN: CHART DETAIL
BLUE: WEATHER STATION DATA
*BLACK ONLY: CHART DETAIL
**BLACK ONLY: CHART DETAIL, BLUE WEATHER STATIONS AND WMO BLOCK BOUNDARIES
***BLACK ONLY: CHART DETAIL/ LAMBERT CONFORMAL CONIC PROJECTION
****BLACK ONLY: CHART DETAIL, BLUE WEATHER STATIONS AND WMO BLOCK BOUNDARIES/ LAMBERT CONFORMAL CONIC PROJECTION
*****BROWN: CHART DETAIL, WEATHER STATIONS/ DATA
*****BLACK: RADAR

INDEX 5 FOR FLIGHT/ DEPICTION, FACSIMILE, WINDS ALOFT AND MISCELLANOUS CHARTS
(POLAR STEREOGRAPHIC PROJECTION)

DEPARTMENT OF DEFENSE WEATHER PLOTTING CHARTS



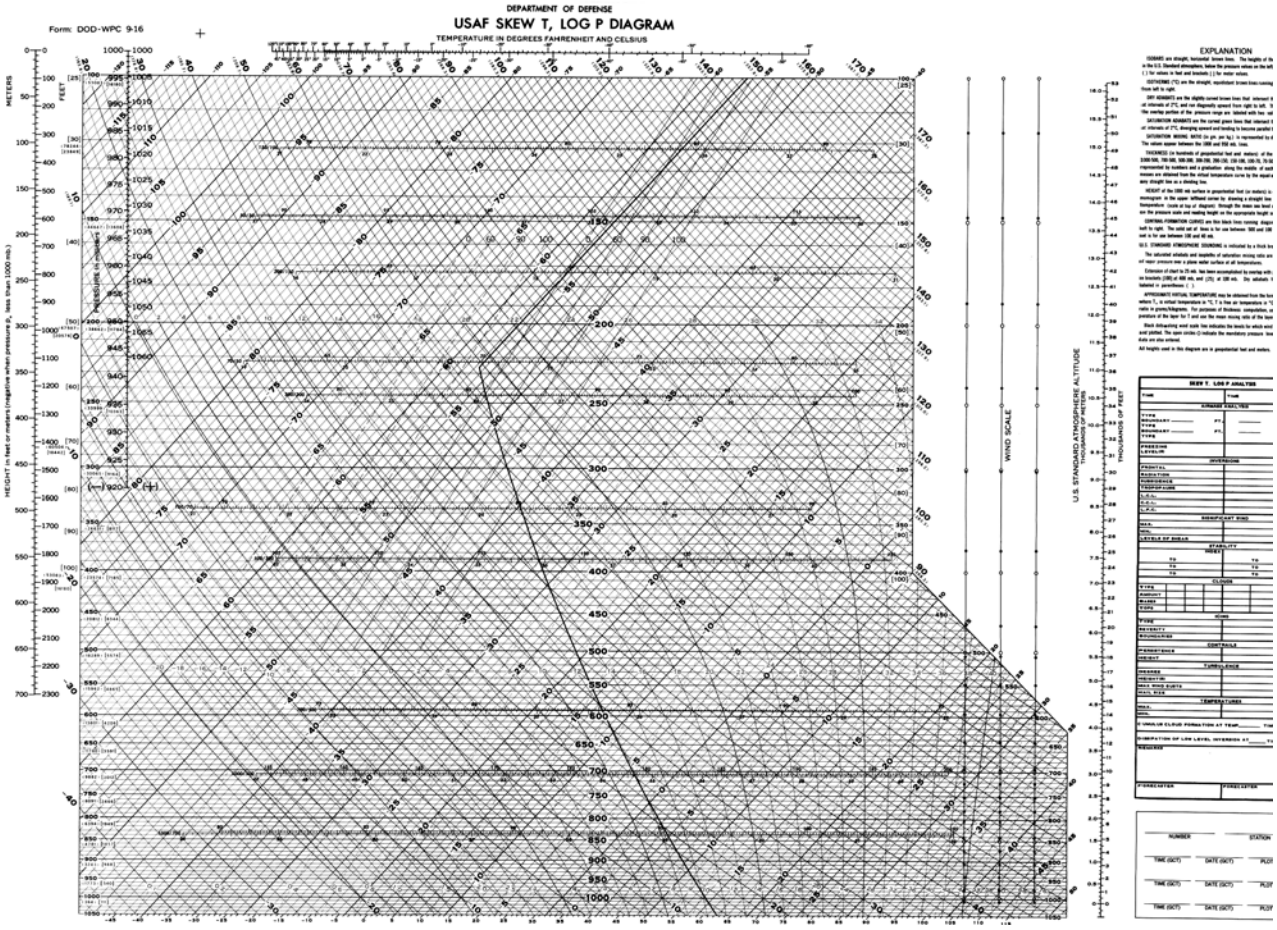
WEATHER STATION DATA

WPC	SCALE	SURFACE	PIBAL	RAOB	ACTIVE	INACTIVE	CALL LETTERS	INDEX NO.	TINT BANDS	SIZE (INCHES) WIDTH	HEIGHT	
3-15-15	15,000,000	•	•	•	•			•	2	42.5	38.8	
3-20-7	20,000,000	•	•	•	•	•		•	4	40.5	43.3	
*3-30-4	30,000,000								-	33.5	34.2	
*3-30-4A	30,000,000	•							-	33.5	34.7	OVERLAY
*3-30-4C	30,000,000	•						•	-	33.5	34.7	OVERLAY
*3-30-4D	30,000,000		•	•					-	33.5	34.7	OVERLAY

—NOTES—

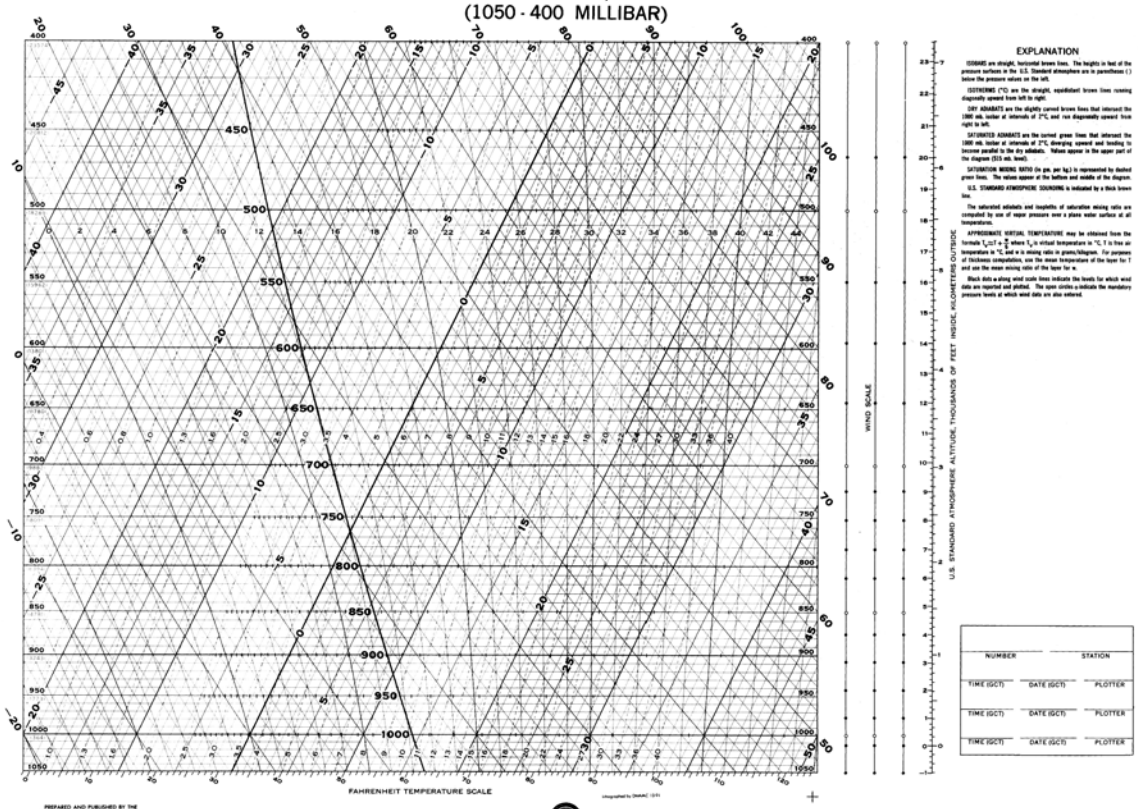
PRINTING COLORS - BROWN: WEATHER STATION DATA, GWC GRID
BLUE: WMO BLOCK BOUNDARIES, WATER, POLAR ICE
* BLACK ONLY: CHART DETAIL
** GREEN: POLAR NAVIGATION GRID

INDEX 6 FOR SOUTHERN HEMISPHERE/HIGH LATITUDES AND MISCELLANEOUS CHARTS
(POLAR STEREOGRAPHIC PROJECTION)



Form: DOD WPC 9-16A

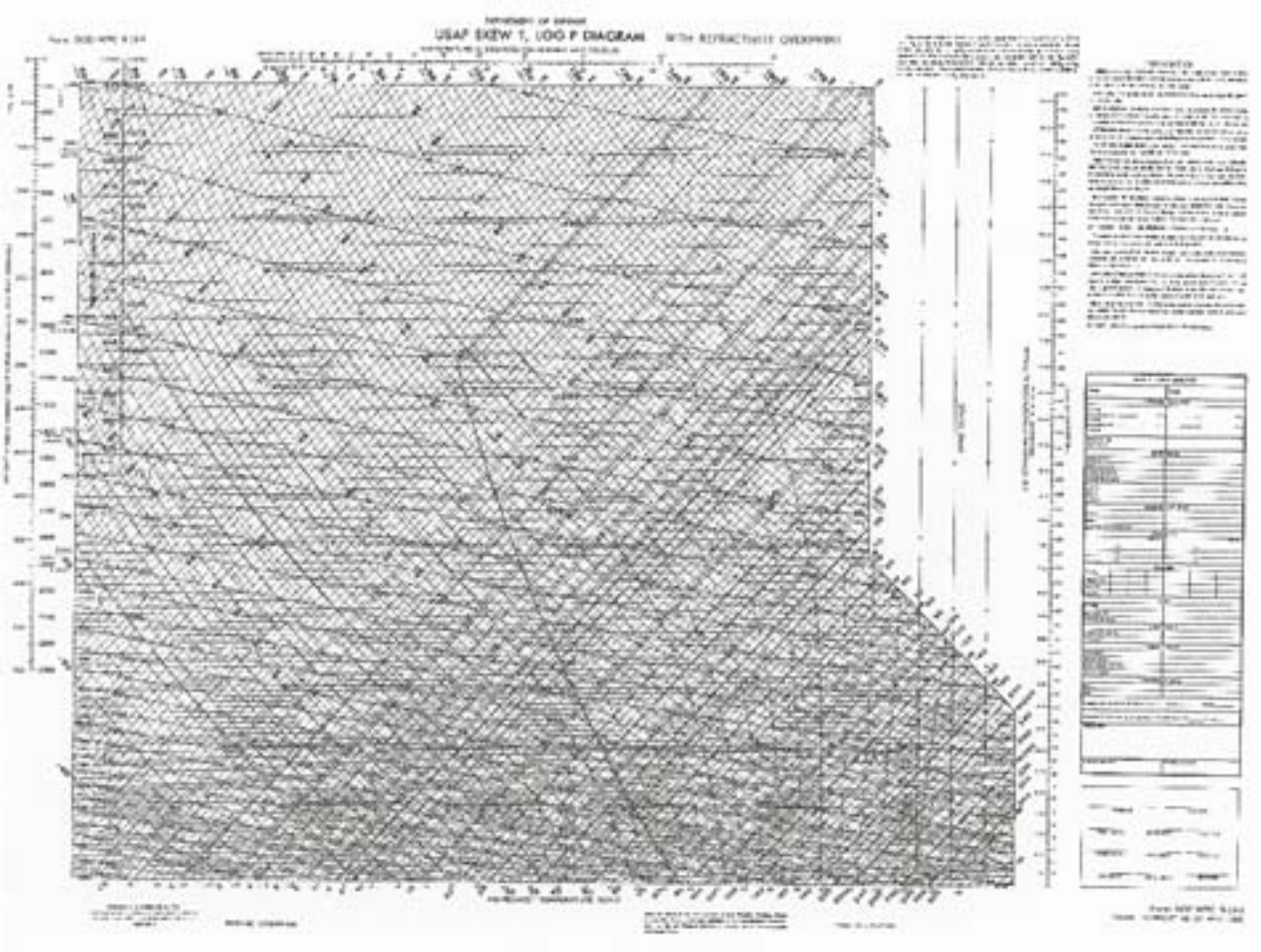
DOD MODIFIED SKEW T, LOG P DIAGRAM
(1050 - 400 MILLIBAR)



PREPARED AND PUBLISHED BY THE DEFENSE MAPPING AGENCY AEROSPACE CENTER, ST. LOUIS AIR FORCE STATION, MISSOURI 63118. EDITION 3

STOCK NO. WPCXX0916A

Form: DOD WPC 9-16A
CHART CURRENT AS OF JUNE 1977



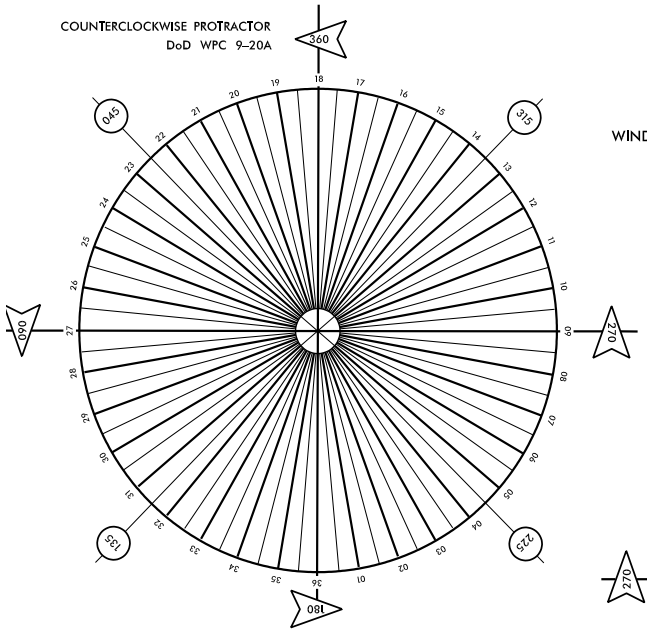
USAF SKEW T, LOG P DIAGRAM (REFRACTIVITY OVERPRINT)
DOD-WPC 9-16-2

COLORS
Brown, green and black

SHEET SIZE

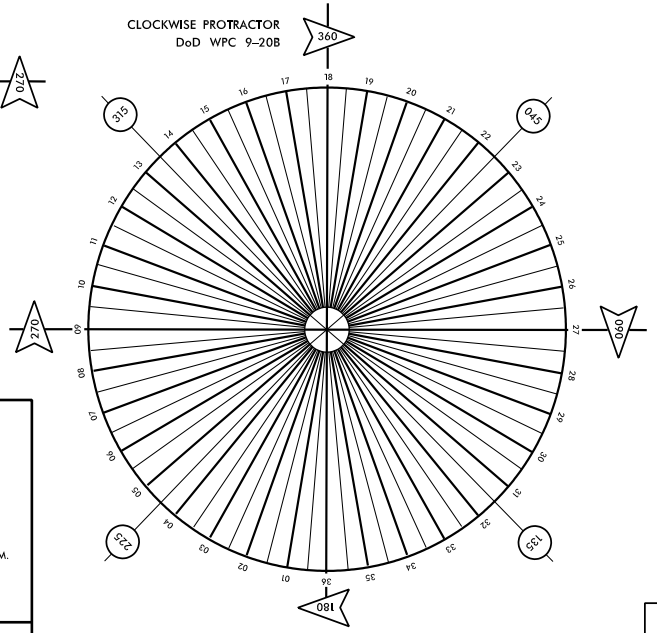
WEATHER PLOTTING SCALES ARE TRANSPARENT PLASTIC WITH BLACK PRINTING COLORS

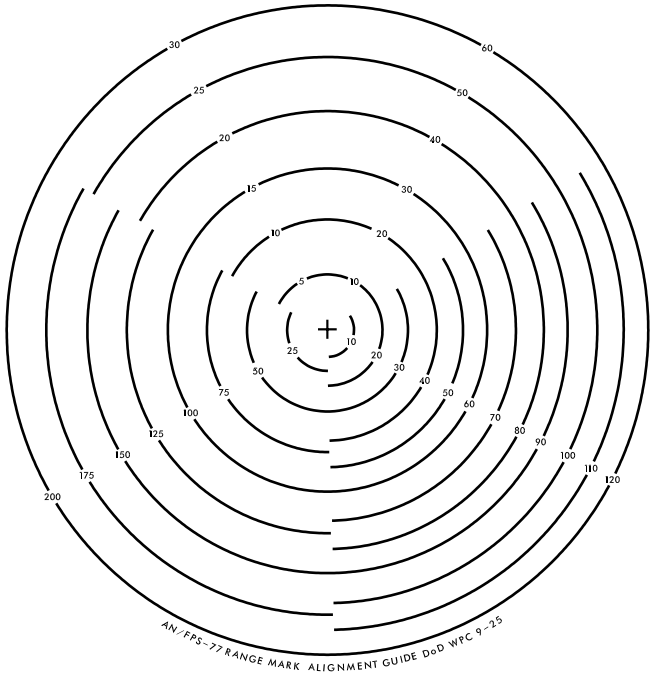
COUNTERCLOCKWISE PROTRACTOR
DoD WPC 9–20A

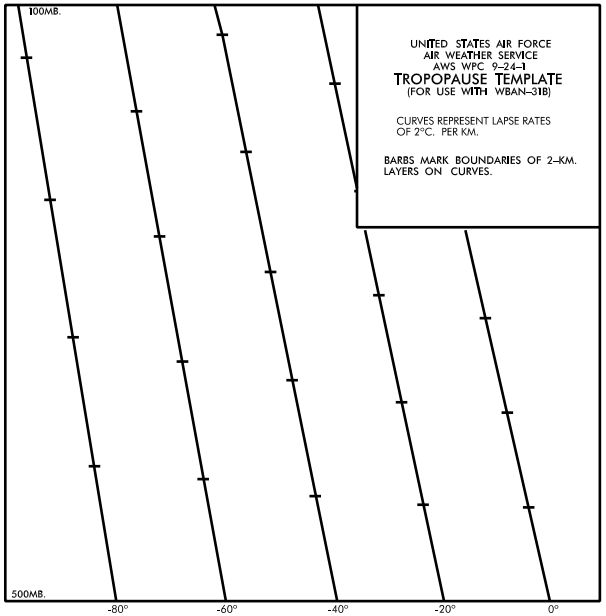


WIND DIRECTION PLOTTING SCALE
For use with A–1 Plotting Board

CLOCKWISE PROTRACTOR
DoD WPC 9–20B







UNITED STATES AIR FORCE
AIR WEATHER SERVICE
AWS WPC 9–24–1
TROPOPAUSE TEMPLATE
(FOR USE WITH WBAN–31B)

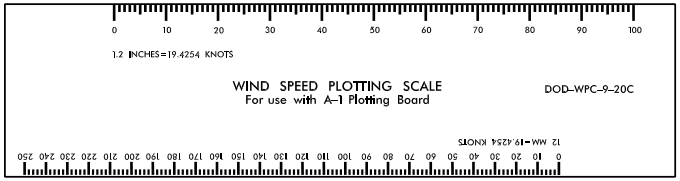
CURVES REPRESENT LAPSE RATES OF 2°C. PER KM.

BARBS MARK BOUNDARIES OF 2–KM. LAYERS ON CURVES.

DOD–WPC–9–24–1
TROPOPAUSE TEMPLATE

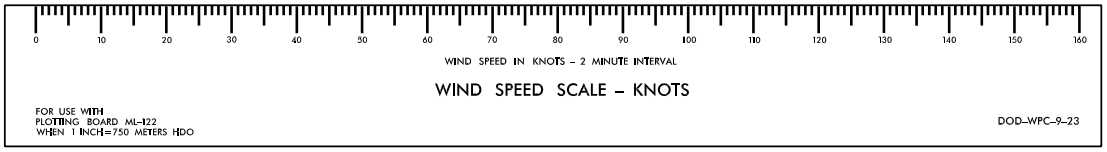
COLOR
Black on Plastic

SIZE
13" x 14"



DOD–WPC–9–20C
WIND SPEED PLOTTING SCALE

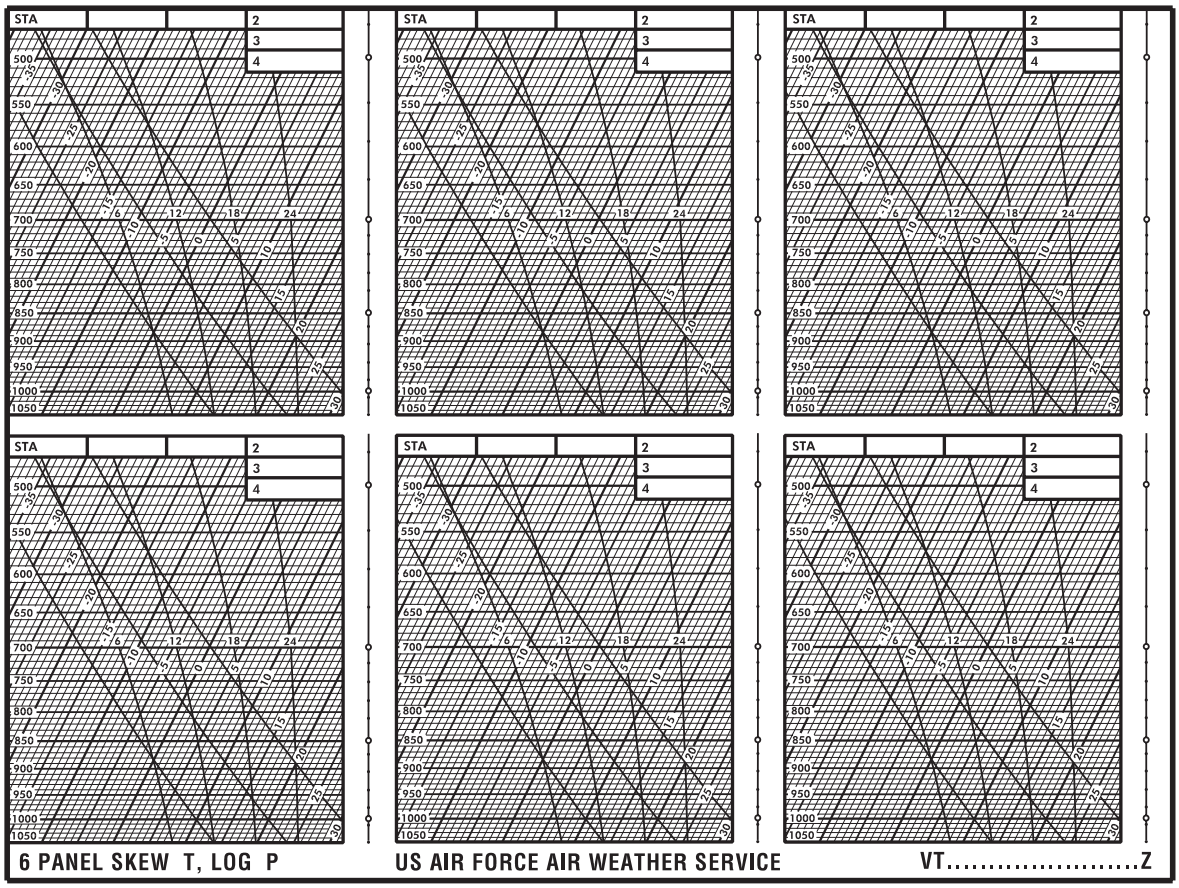
SIZE
8" X 2"



DOD–WPC–9–23
WIND SPEED SCALE–KNOTS

SIZE
9.6" X 2.2"

DOD WPC 9-16-4



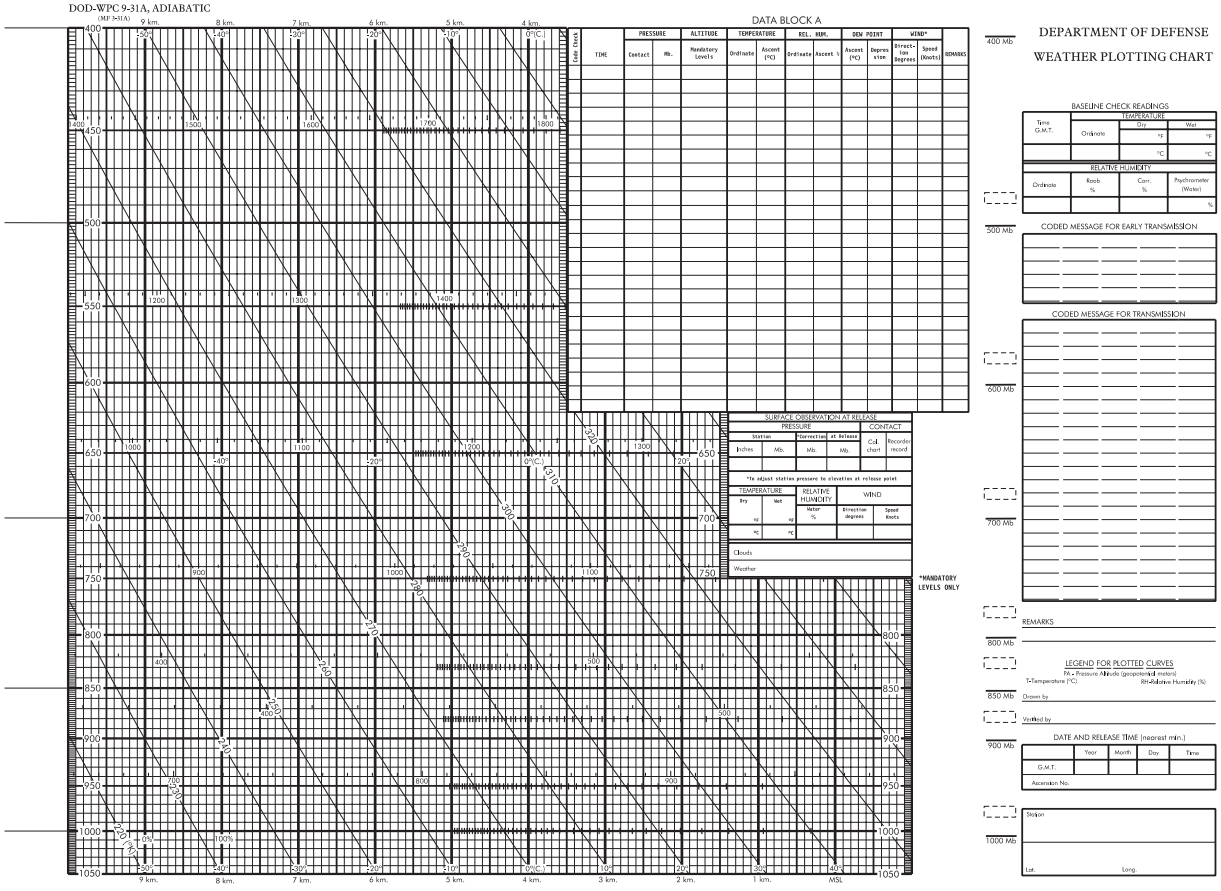
DOD WPC 9-16-4

SKEW T DIAGRAM
DOD-WPC 9-16-4

COLOR
Black

SHEET SIZE
19" x 14.5"

DOD-WPC 9-31A, ADIABATIC
(MF 3-31A)



DEPARTMENT OF DEFENSE
WEATHER PLOTTING CHART

BASELINE CHECK READINGS
Time G.M.T.
TEMPERATURE
Ordinate
Dry
Wet
°F
°C
RELATIVE HUMIDITY
Ordinate
Raob %
Corr. %
Psychrometer (Water)
%

400 Mb

500 Mb
CODED MESSAGE FOR EARLY TRANSMISSION

600 Mb
CODED MESSAGE FOR TRANSMISSION

700 Mb

800 Mb
REMARKS

850 Mb
LEGEND FOR PLOTTED CURVES
PA - Pressure Altitude (geopotential meters)
T-Temperature (°C)
RH-Relative Humidity (%)
Drawn by
Verified by

900 Mb
DATE AND RELEASE TIME (nearest min.)
Year
Month
Day
Time
G.M.T.
Ascension No.

1000 Mb
Station
Lat.
Long.

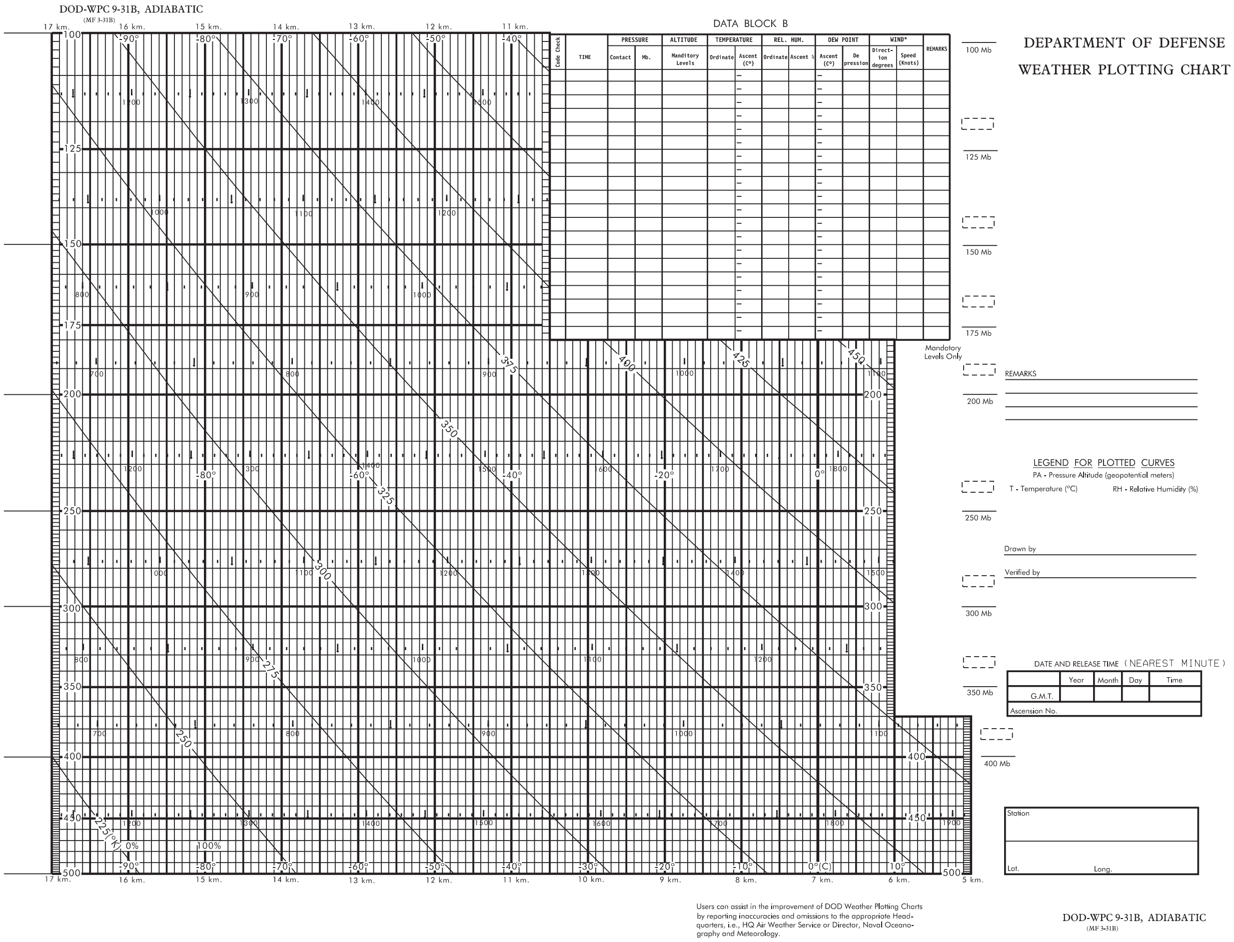
ADIABATIC
DOD-WPC 9-31A

COLORS
Green and black

Users can assist in the improvement of DOD WEATHER plotting Charts by reporting inaccuracies and omissions to the appropriate WEATHER SERVICE HEADQUARTERS, i.e., Hq Air Weather Service or Director, Naval Oceanography and Meteorology.

SHEET SIZE
14.8" x 19"

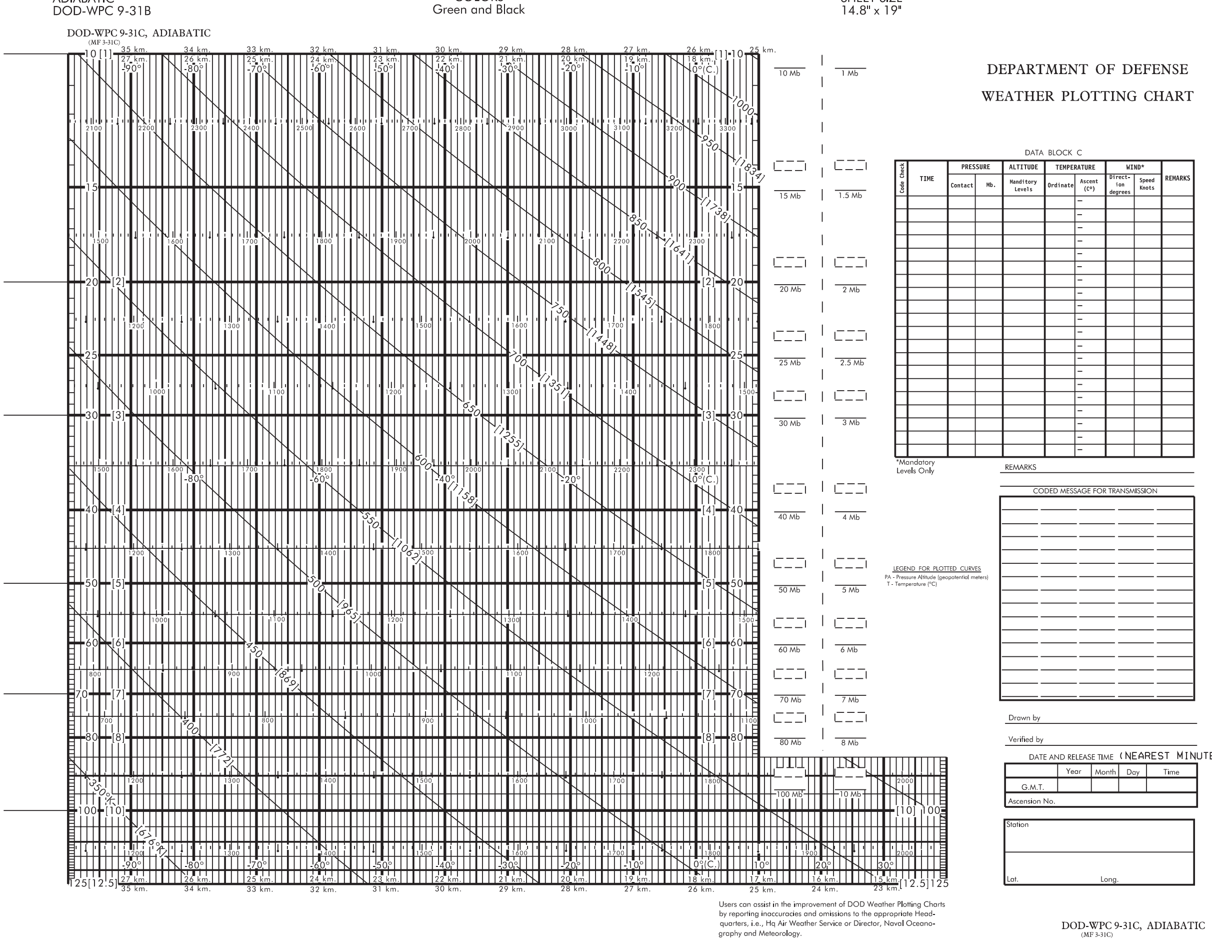
DOD-WPC 9-31A, ADIABATIC
(MF 3-31A)



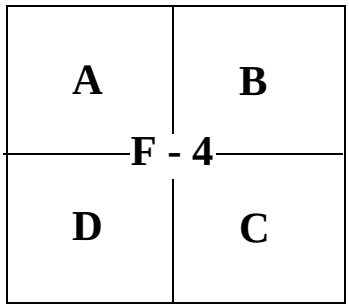
ADIABATIC
DOD-WPC 9-31B

COLORS
Green and Black

SHEET SIZE
14.8" x 19"



Tactical Pilotage Charts (TPC). TPCs support high speed, low altitude, radar and visual navigation of high performance tactical and reconnaissance aircraft at very low through medium altitudes. TPCs cover one fourth the area of ONCs. They are very detailed charts. In remote areas of the world they can be substituted as road maps. They are identified by the respective ONC letter and number and an additional letter representing the TPC; e.g., TPC F-4-A. (TPCs are not available for all areas of ONC coverage.) . (Scale 1:500,000)



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TPCB1A	TPCD4C	TPCE9C	TPCF18A	TPCG19D
TPCB1D	TPCD4D	TPCE9D	TPCF18B	TPCG20A
TPCB2A	TPCD5A	TPCE10A	TPCF18C	TPCG20B
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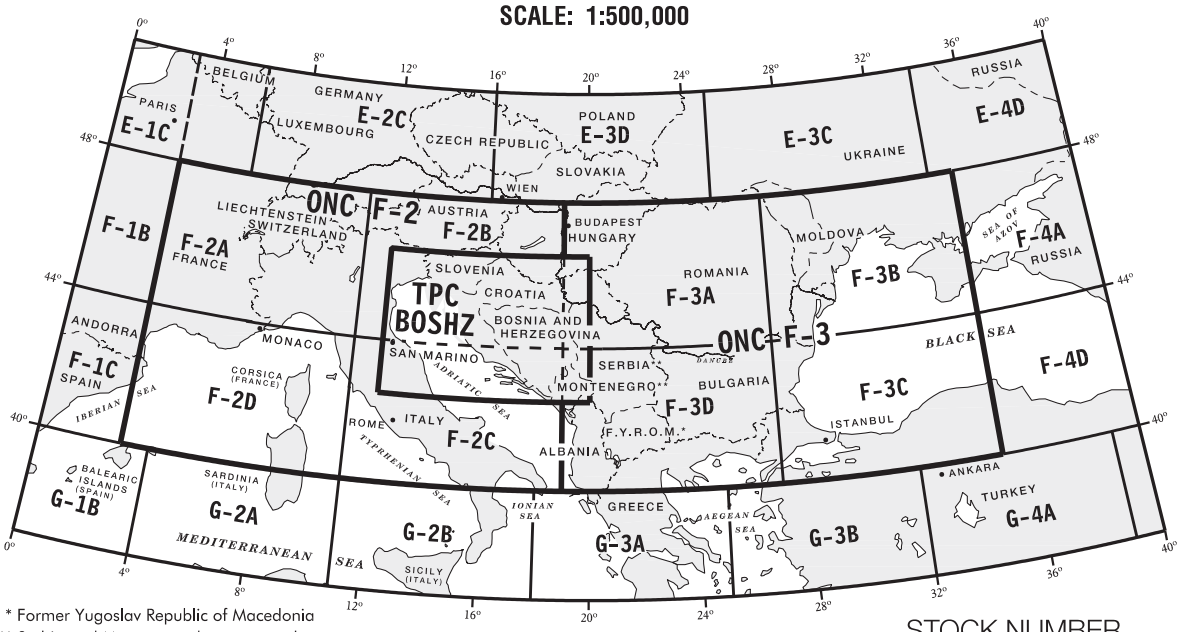
TPCS13B
TPCS13D
TPCT18A
*TPCT18B †
*TPCU18C †
*TPCU18D †
*TPCU19A †
*TPCU19C †

*Due to international agreements, your order quantity is limited to no more than 25 copies per order.
†All TPCs are available on CD-ROM with the exception of products indicated with a †. Digital TPCs will be for sale until stock is depleted.
To order digital TPCs, add a preceding D to the basic stock number, i.e., TPCA2C will be DTPCA2C
‡TPCITALY Covers Portions of Italy, Switzerland, Solvenia, Croatia and France.
††TPCs indicated with a †† are ONLY available on CD-ROM.

See TPC graphics on pages 35,36,37, and 38.

TPC BOSNIA AND HERZEGOVINA

SCALE: 1:500,000



* Former Yugoslav Republic of Macedonia

** Serbia and Montenegro have asserted the formation of a joint independent state, but this entity has not been formally recognized as a state by the United States.

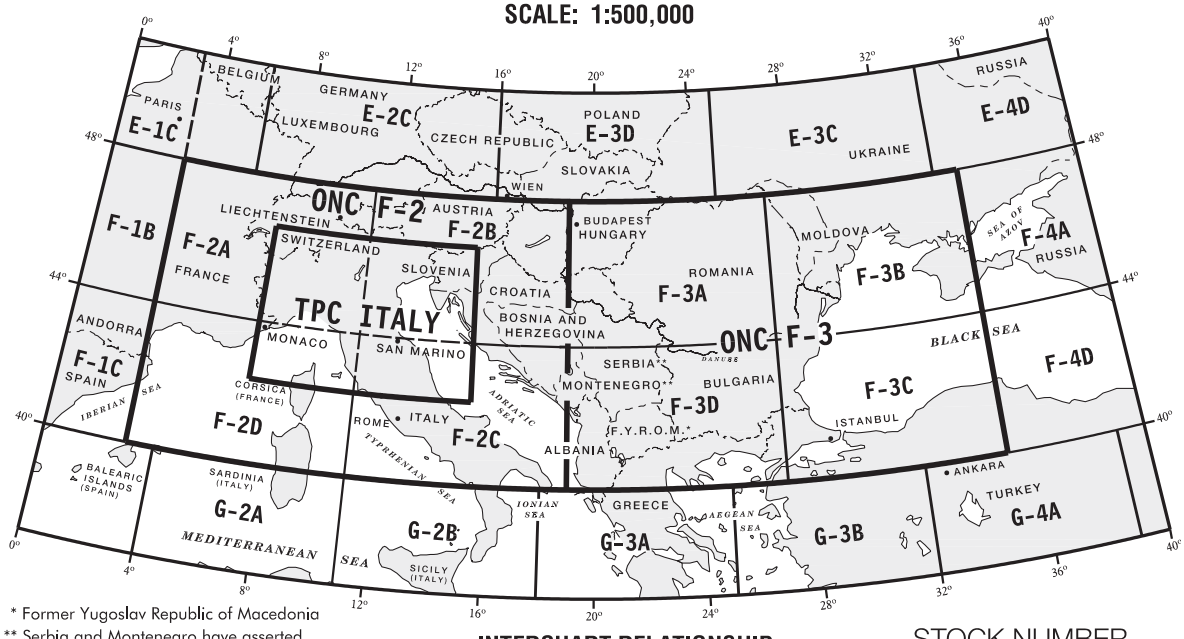
INTERCHART RELATIONSHIP

The representation of boundaries is not necessarily authoritative

STOCK NUMBER
TPCBOSHZ

TPC ITALY TRAINING

SCALE: 1:500,000



* Former Yugoslav Republic of Macedonia

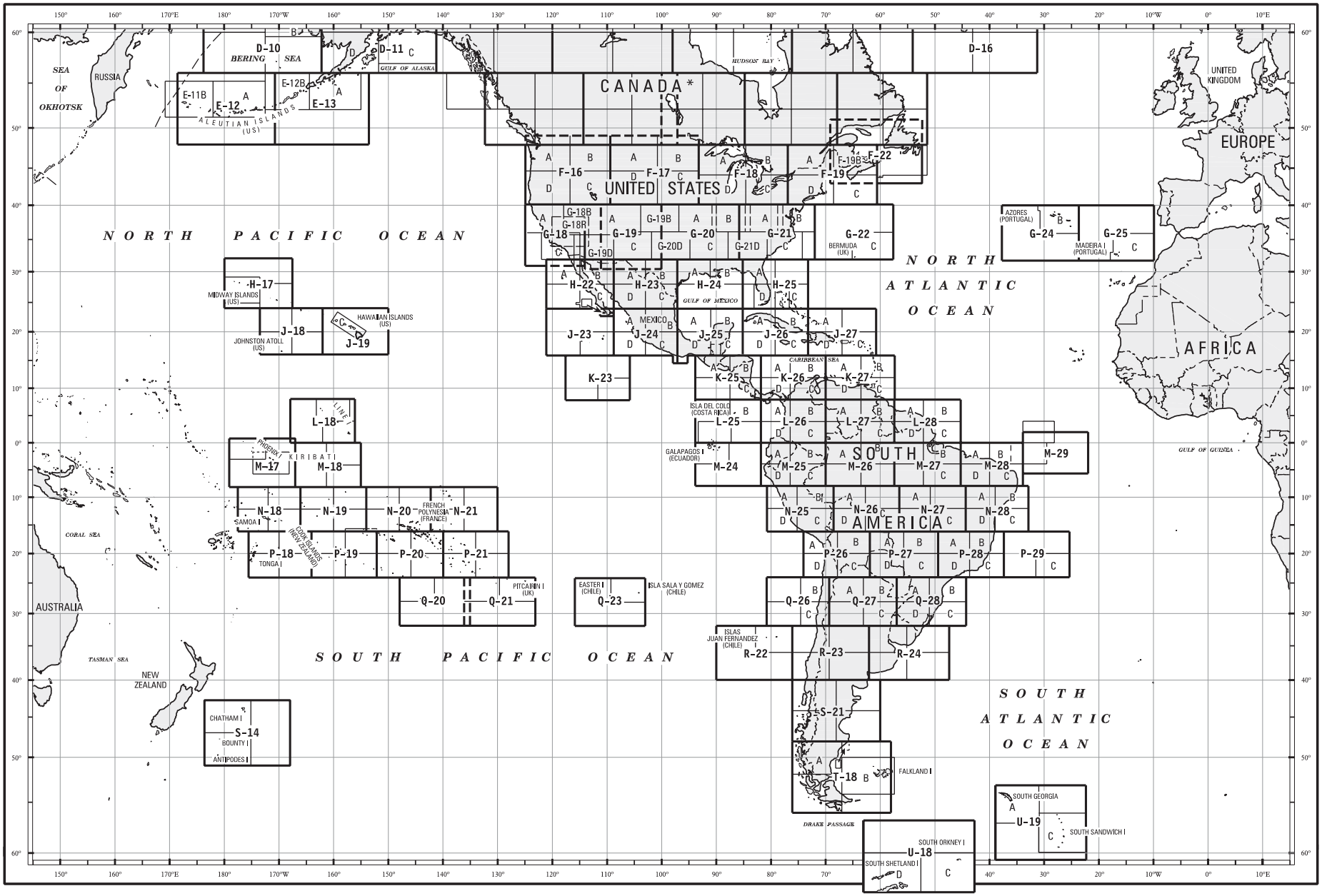
** Serbia and Montenegro have asserted the formation of a joint independent state, but this entity has not been formally recognized as a state by the United States.

INTERCHART RELATIONSHIP

The representation of boundaries is not necessarily authoritative

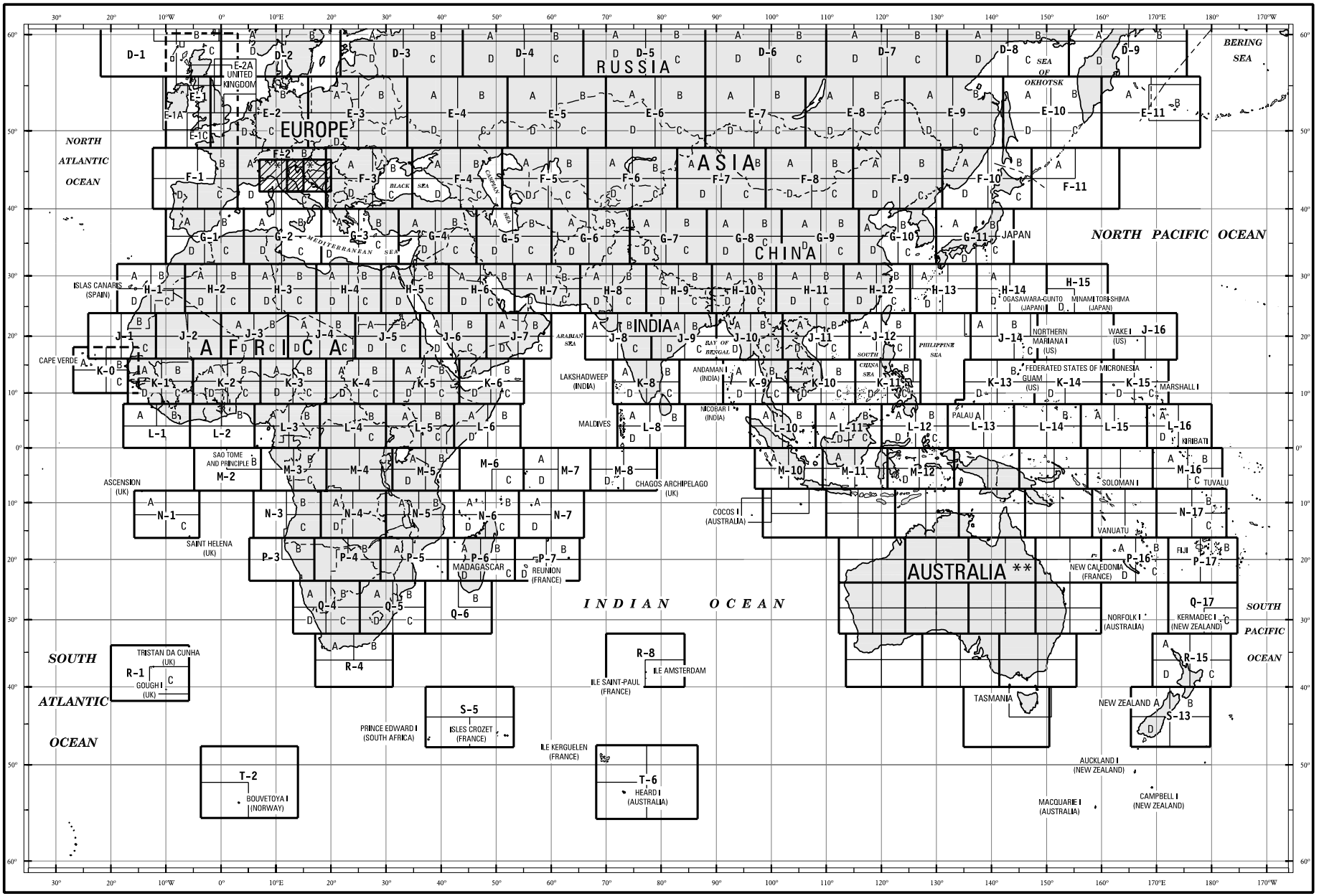
STOCK NUMBER
TPCITALY

TACTICAL PILOTAGE CHARTS



* REFER TO INSIDE FRONT COVER FOR CANADIAN CHART INFORMATION.

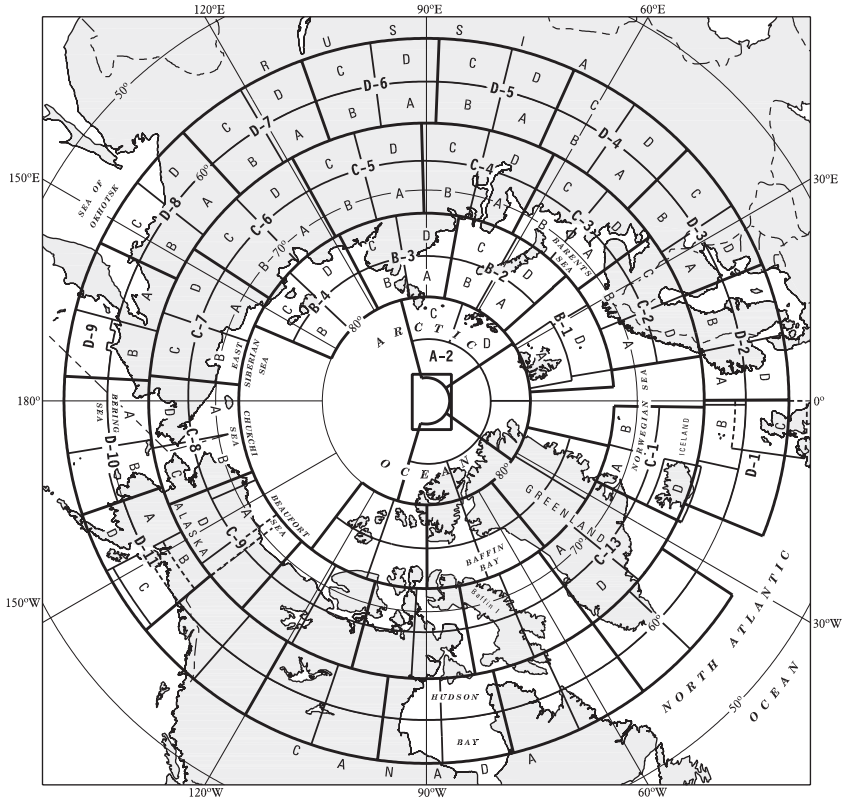
TACTICAL PILOTAGE CHARTS

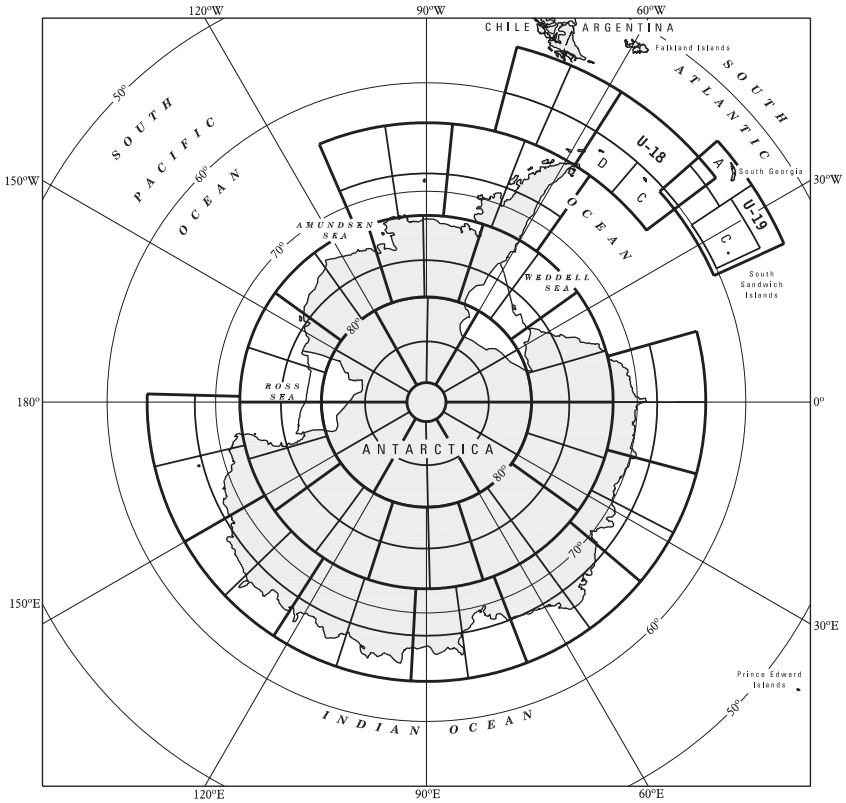


* For special editions TPCBOSHZ and TPCITALY, see graphics on page 35.

** REFER TO INSIDE FRONT COVER FOR AUSTRALIAN CHART INFORMATION.

TACTICAL PILOTAGE CHARTS





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Operational Navigation Charts (ONC). ONCs support high speed radar navigation requirements at medium altitudes. Other uses include visual, celestial, and radio navigation. In the absence of *Tactical Pilotage Charts*, they satisfy DoD requirements for enroute visual and radar navigation in low altitude operations. The sheet size is 42 by 57-1/2 inches covering eight degrees of latitude. (Scale 1:1,000,000)

ONCA0
ONCA1
ONCA2
ONCA5†
ONCB1
ONCB2
ONCB3
ONCB4
ONCB9
ONCC1
ONCC2
ONCC3
ONCC4
ONCC5
ONCC6
ONCC7
ONCC8
ONCC9†
ONCC13
ONCD1†
ONCD2
ONCD3
ONCD4
ONCD5
ONCD6
ONCD7
ONCD8
ONCD9
ONCD10
ONCD11†
ONCD16
*ONCE1†
*ONCE2†
ONCE3
ONCE4
ONCE5
ONCE6
ONCE7
ONCE8
ONCE9
ONCE10
ONCE11
ONCE12†
ONCE13†
ONCF1
ONCF2
ONCF3†
ONCF4
ONCF5
ONCF6
ONCF7
ONCF8
ONCF9
ONCF10†
ONCF11
ONCF16
ONCF17
ONCF18†
ONCF19
ONCF22†
ONCG1
ONCG2
ONCG3
ONCG4
ONCG5
ONCG6
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ONCG10
ONCG11
ONCG18
ONCG19
ONCG20
ONCG21†
ONCG22
ONCG24
ONCG25
ONCH1
ONCH2
ONCH3
ONCH4
*ONCH5†
*ONCH6†
ONCH7
ONCH8
ONCH9†
ONCH10†
ONCH11
ONCH12†
ONCH13
ONCH14
ONCH15
ONCH17
ONCH22
ONCH23
ONCH24
ONCH25†
ONCJ1
ONCJ2
ONCJ3
ONCJ4
ONCJ5
ONCJ6 †
ONCJ7 †
ONCJ8
ONCJ9
ONCJ10†
ONCJ11†
ONCJ12
ONCJ14
ONCJ16
ONCJ18
ONCJ19
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ONCK23
ONCK25
ONCK26†
ONCK27
ONCL1
ONCL2
ONCL3
ONCL4
ONCL5
ONCL6
ONCL8
*ONCL10†
*ONCL11†
ONCL12
ONCL13
ONCL14
ONCL15
ONCL16†
ONCL18†
ONCL25
ONCL26†
ONCL27
ONCL28
*ONCM2†
ONCM3
ONCM4
ONCM5
ONCM6
ONCM7
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ONCM12†
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ONCQ28
*ONCR1†
ONCR4
*ONCR8†
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ONCR24
*ONCS5†
ONCS13††
ONCS14
ONCS21
*ONCT2†
*ONCT6 †
ONCT11
ONCT18
*ONCU17†
*ONCU18
*ONCU19

*Due to international agreements, your order quantity is limited to no more than 25 copies per order.

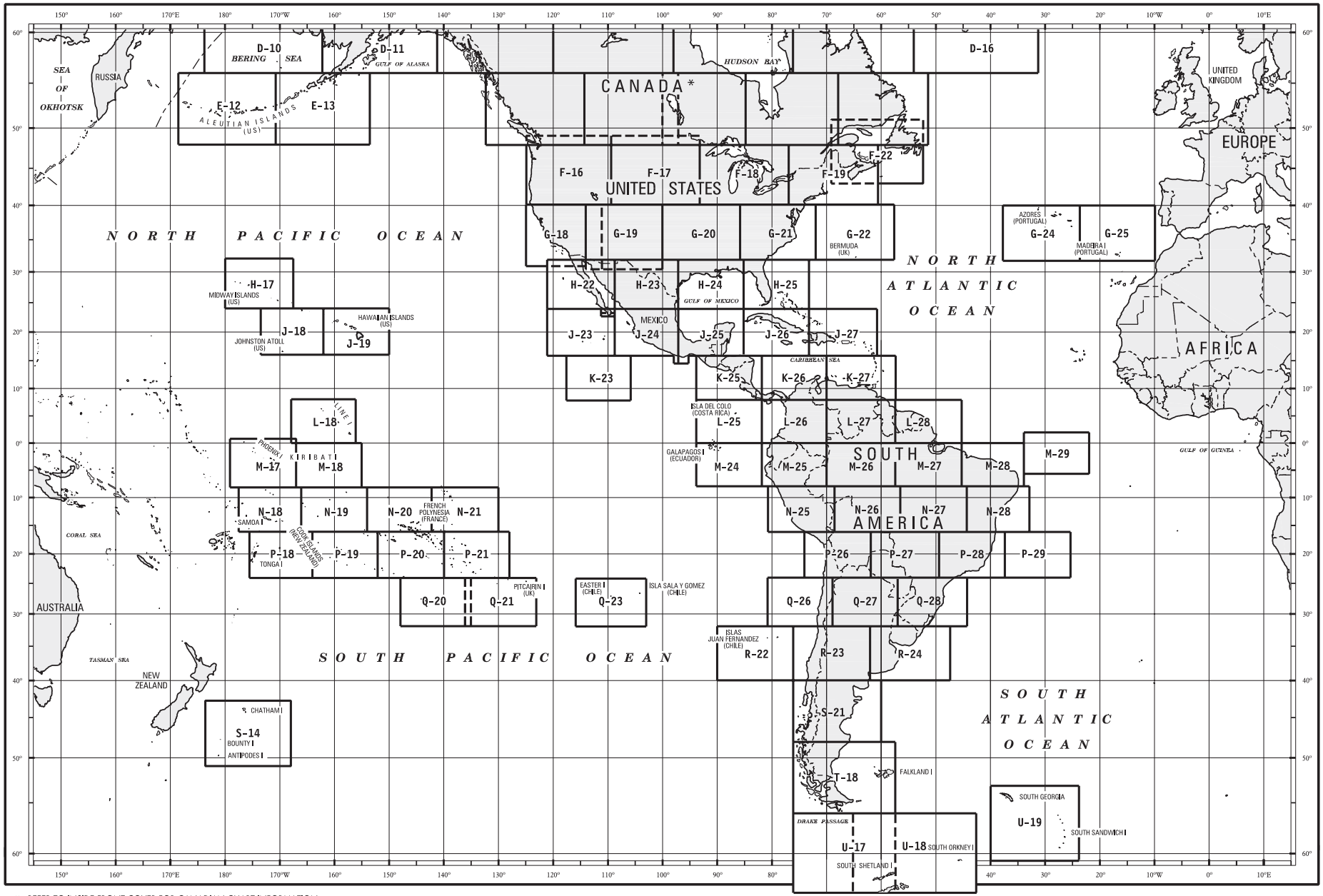
†All ONCs are available on CD-ROM with the exception of products indicated with a †. Digital ONCs will be for sale until stock is depleted.

To order digital ONCs, add a preceding D to the basic stock number, i.e., ONCA0 will be DONCA0

††ONCs indicated with a †† are ONLY available on CD-ROM.

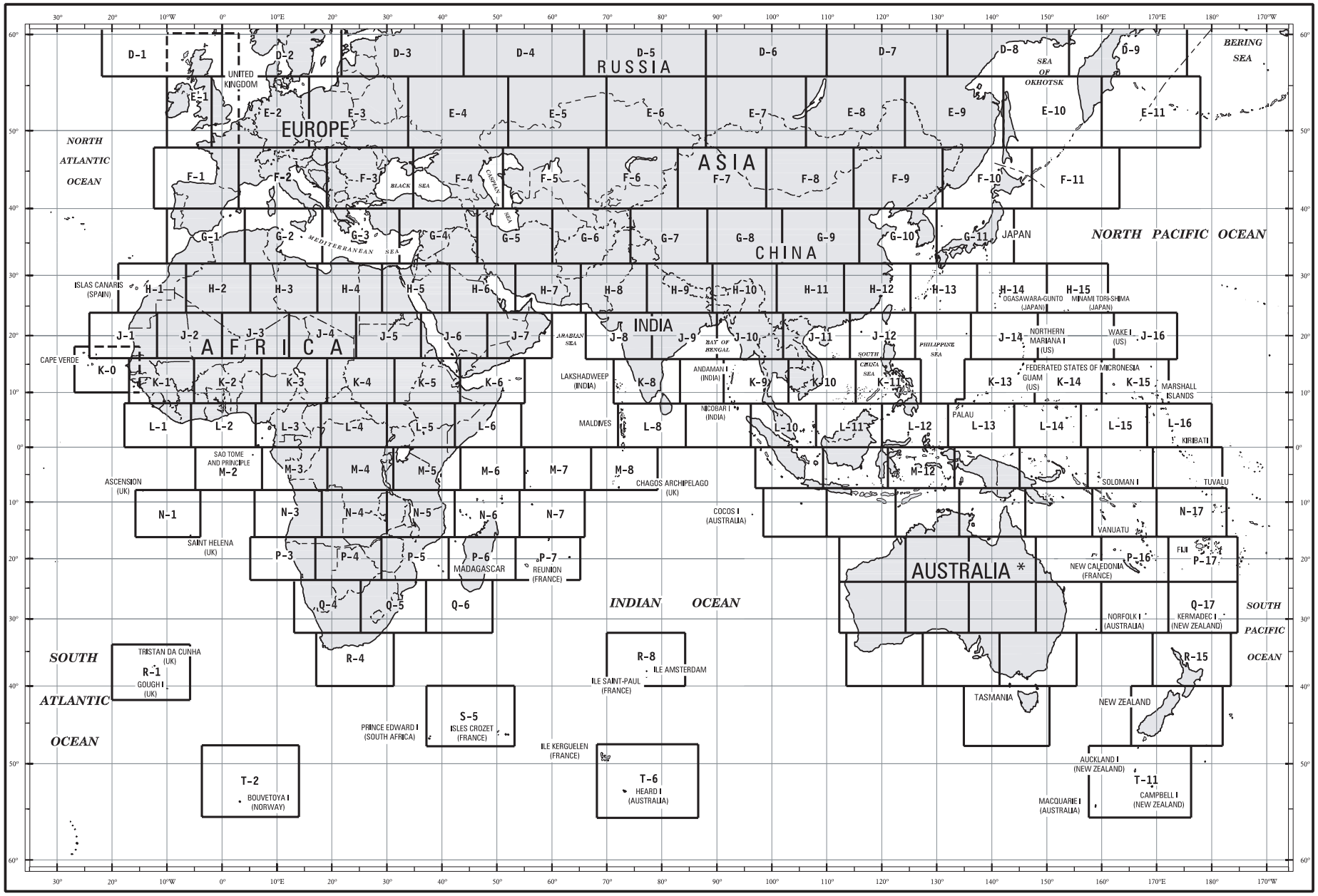
See ONC graphics on pages 41, 42 and 43.

OPERATIONAL NAVIGATION CHARTS



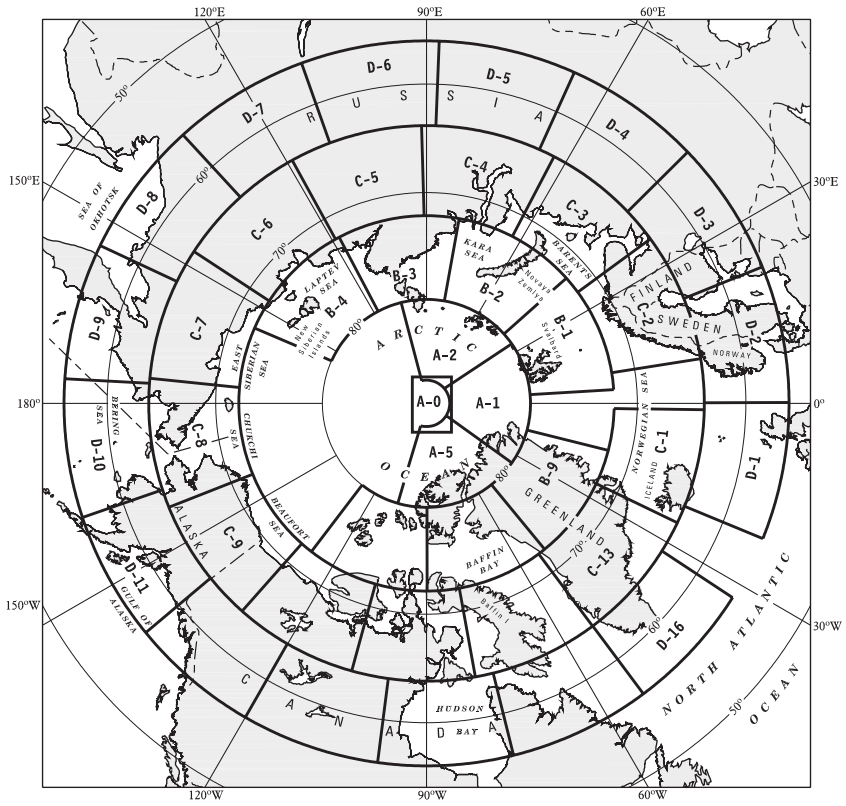
* REFER TO INSIDE FRONT COVER FOR CANADIAN CHART INFORMATION.

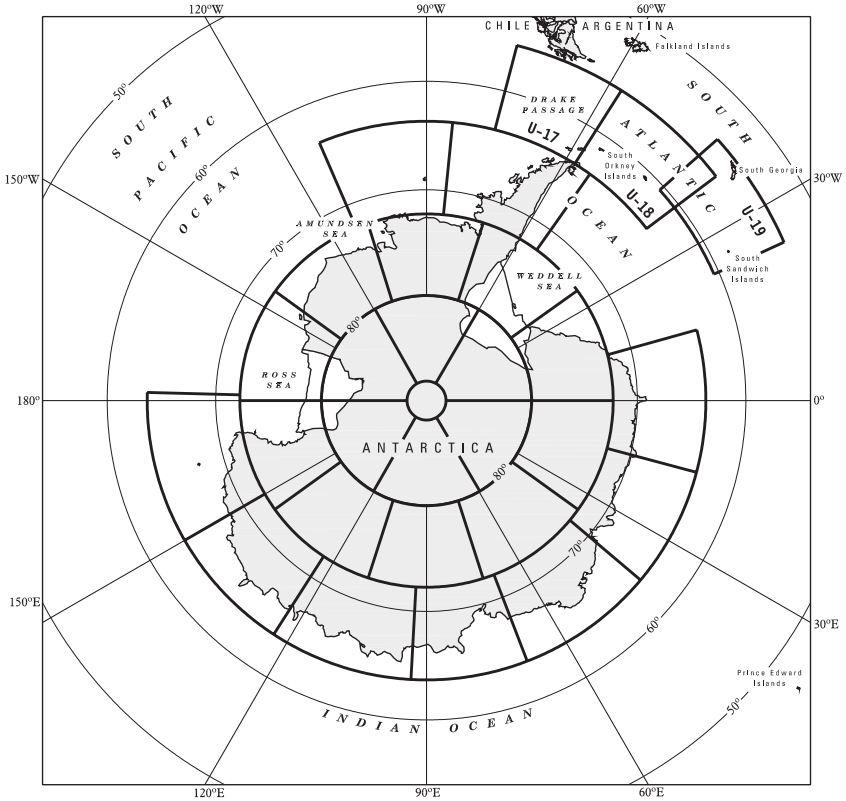
OPERATIONAL NAVIGATION CHARTS



* REFER TO INSIDE FRONT COVER FOR AUSTRALIAN CHART INFORMATION.

OPERATIONAL NAVIGATION CHARTS





Global Navigation and Planning Charts (GNC). GNCs are suitable for flight planning, operations over long distances, and enroute navigation in long range, high altitude, high speed aircraft. Principal cities, towns, drainage, primary roads and railroads, prominent culture, shaded relief, and spot elevations are shown. Aeronautical data includes NAVAIDS, airports and restricted areas. GNCs 1 and 26 have a polar navigation grid and charts 2 and 6 have subpolar navigation grids. The sheet size is 42 by 57-1/2 inches. (Scale 1:5,000,000)

GLOBAL NAVIGATION AND PLANNING CHART

PUBLISHED BY
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Scale: 1:5,000,000
(1 inch = 69 nautical miles-approx.)

Projection: Polar regions-Transverse Mercator. Other regions - Lambert Conformal Conic.

Size: 41-5/8" by 57-1/2"

Purpose: The design characteristics encompass the information content required for operations involving extended long range, highspeed, high altitude aerospace navigation with secondary considerations given to mission planning and general briefings. This series also serves as the base for production of Global LORAN Navigation Charts (GLCC) and Spacecraft Tracking Charts (NST).

Style: Partial margin, multicolor, shaded relief, no backup, navigation grid, strip chart feature. ONC sheet lines are indexed.

Information Shown:

Relief: Shaded relief with tints indicating relatively flat areas and those of steep relief. Spot elevations. No contours or gradient tints.

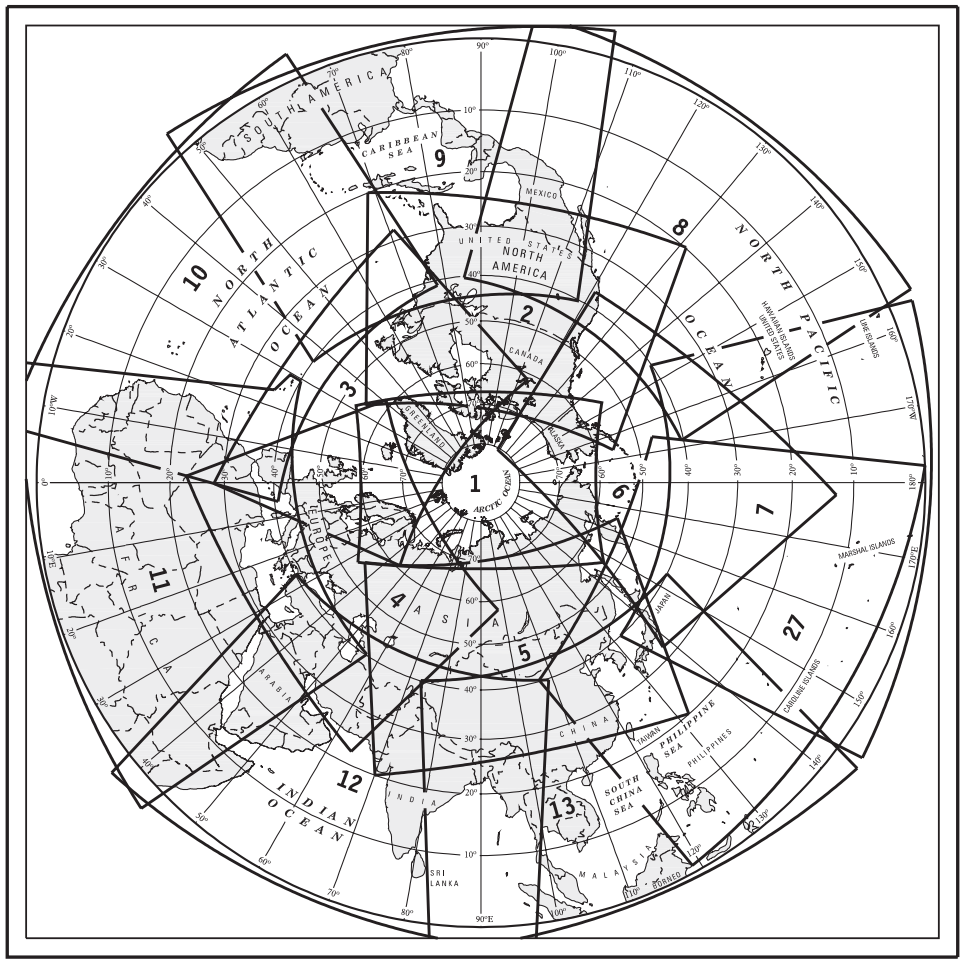
Culture: Cities of strategic or economic importance, major towns, primary road and railroad networks, and miscellaneous outstanding cultural features.

Hydrography: Coast lines, major lakes and rivers. Open water vignetted.

Vegetation: None.

Aeronautical: Stable aeronautical information, navigation aids.

GLOBAL NAVIGATION AND PLANNING CHARTS



All charts shown on this index are published.

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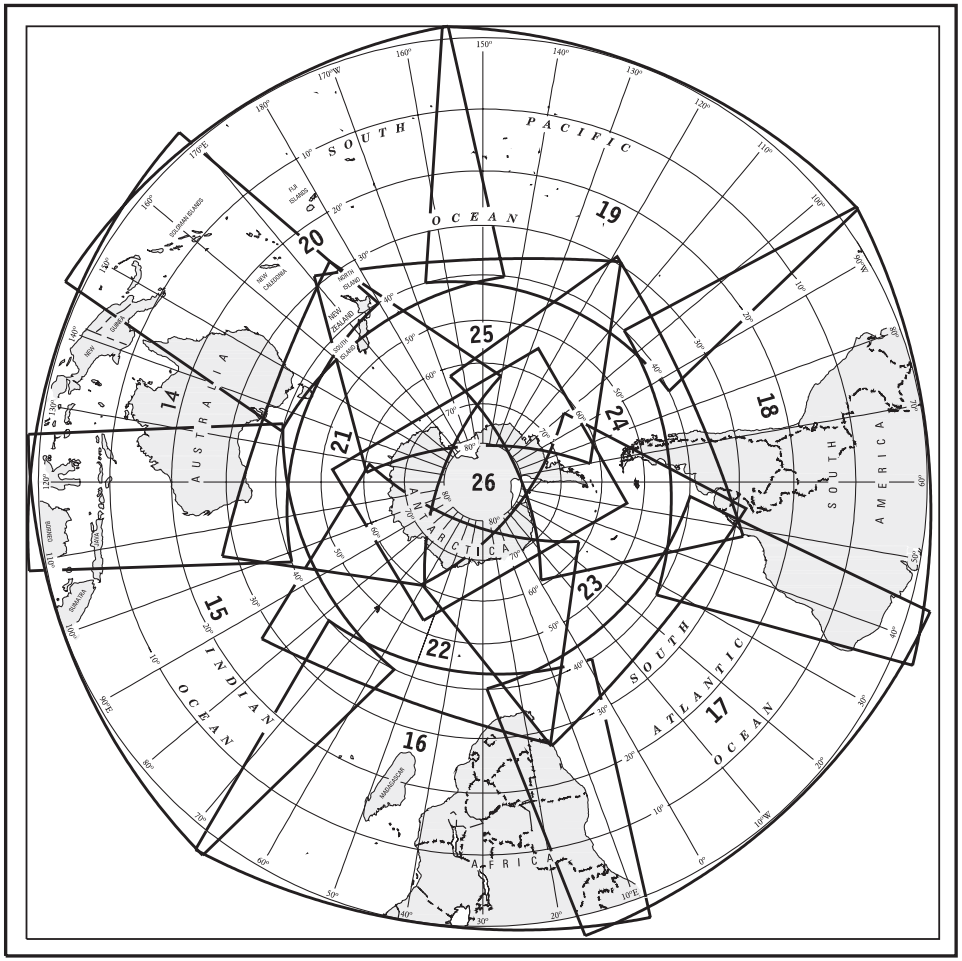
GLOBAL NAVIGATION AND PLANNING CHARTS



All charts shown on this index are published.

† All GNCs are available on CD-ROM with the exception of products indicated with a †. Digital GNCs will be for sale until stock is depleted. To order digital GNCs, add a preceding D to the basic stock number, i.e., GNC1 will be DGNC1.

Jet Navigation Charts (JNC). JNCs are suitable for long range, high altitude, high speed navigation. Features shown include large cities, roads, railroads, and drainage. Relief is shown by contours, spot elevations, and gradient tints. Aeronautical information necessary for the purpose of the charts included. This includes restricted areas, L/MF and VOR ranges, radiobeacons, and a selection of standard broadcast stations and airports. Runway patterns are exaggerated so they may be more readily identified as visual landmarks. See graphic on page 48 and 49. (Scale 1:2,000,000)

STOCK NUMBER	STOCK NUMBER	STOCK NUMBER
JN4	JN48	JN96
JN5	JN49	JN97 †
JN6	JN50	JN102
JN7	JN51 †	JN103
JN8	JN52	JN104
JN9	JN53	JN105
JN10	JN54	JN106
JN11	JN55	JN107
JN12	JN56	JN108
JN13	JN57	JN109
JN14	JN58	JN110
JN15	JN59	JN111
JN16	JN60	JN112
JN19S †	JN61	JN113
JN20	JN62	JN114
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JN23	JN65	JN117
JN24	JN66	JN118
JN25	JN67	JN119
JN26	JN68 †	JN120
JN27	JN73	JN121
JN27A	JN74 †	JN122
JN28	JN75	JN123
JN31	JN76	JN124
JN32	JN77	JN125
JN33	JN78	
JN34	JN79 †	
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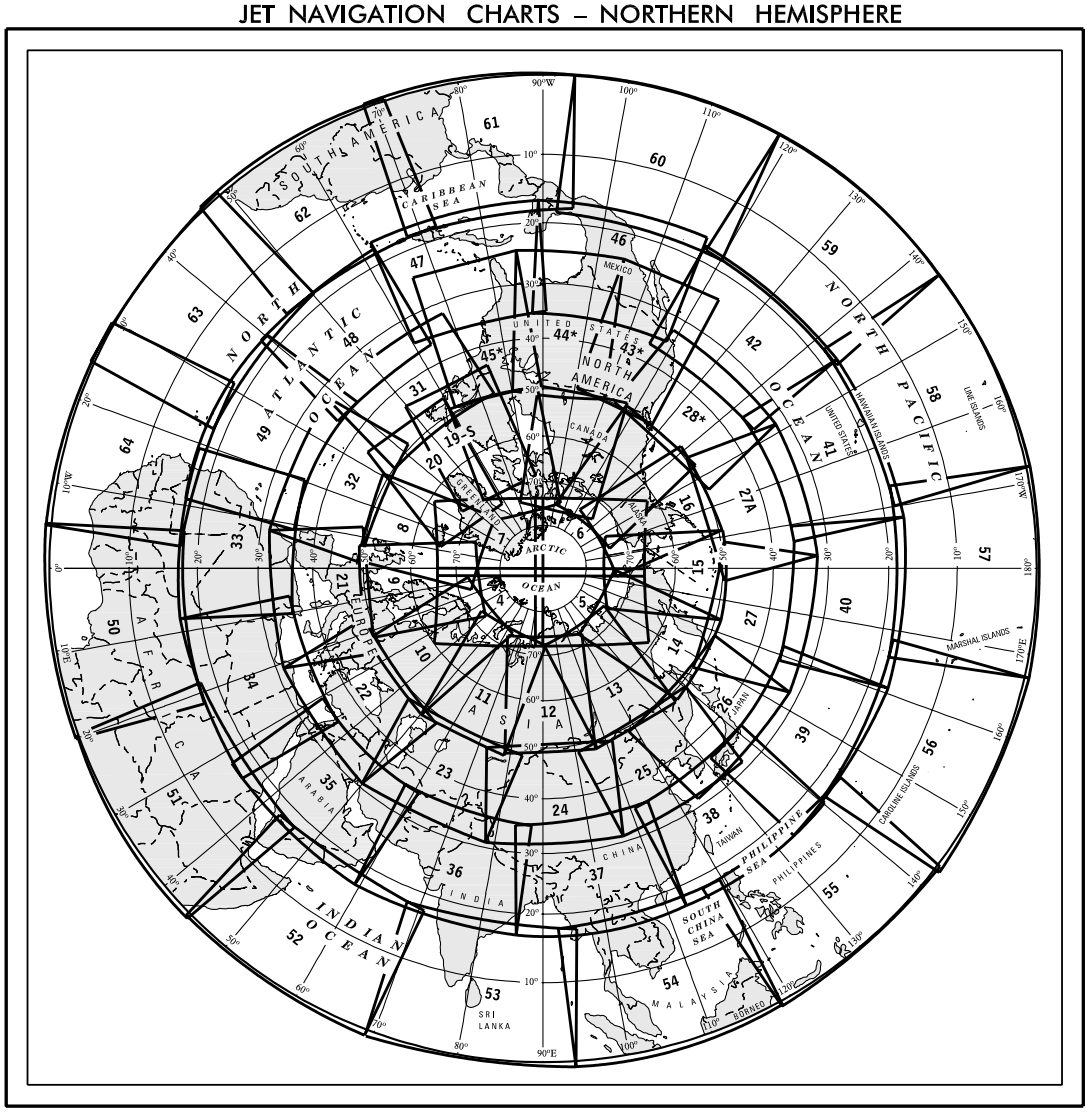
JN37	JN82 †	
JN38	JN83 †	
JN39	JN84	
JN40	JN88	
JN41	JN89	
JN42	JN90 †	
JN43	JN91	
JN44	JN92	
JN45	JN93	
JN46	JN94	
JN47	JN95	

†All JNCs are available on CD-ROM with the exception of products indicated with a †. Digital JNCs will be for sale until stock is depleted. To order digital JNCs, add a preceding D to the basic stock number, i.e., JN4 will be DJN4.

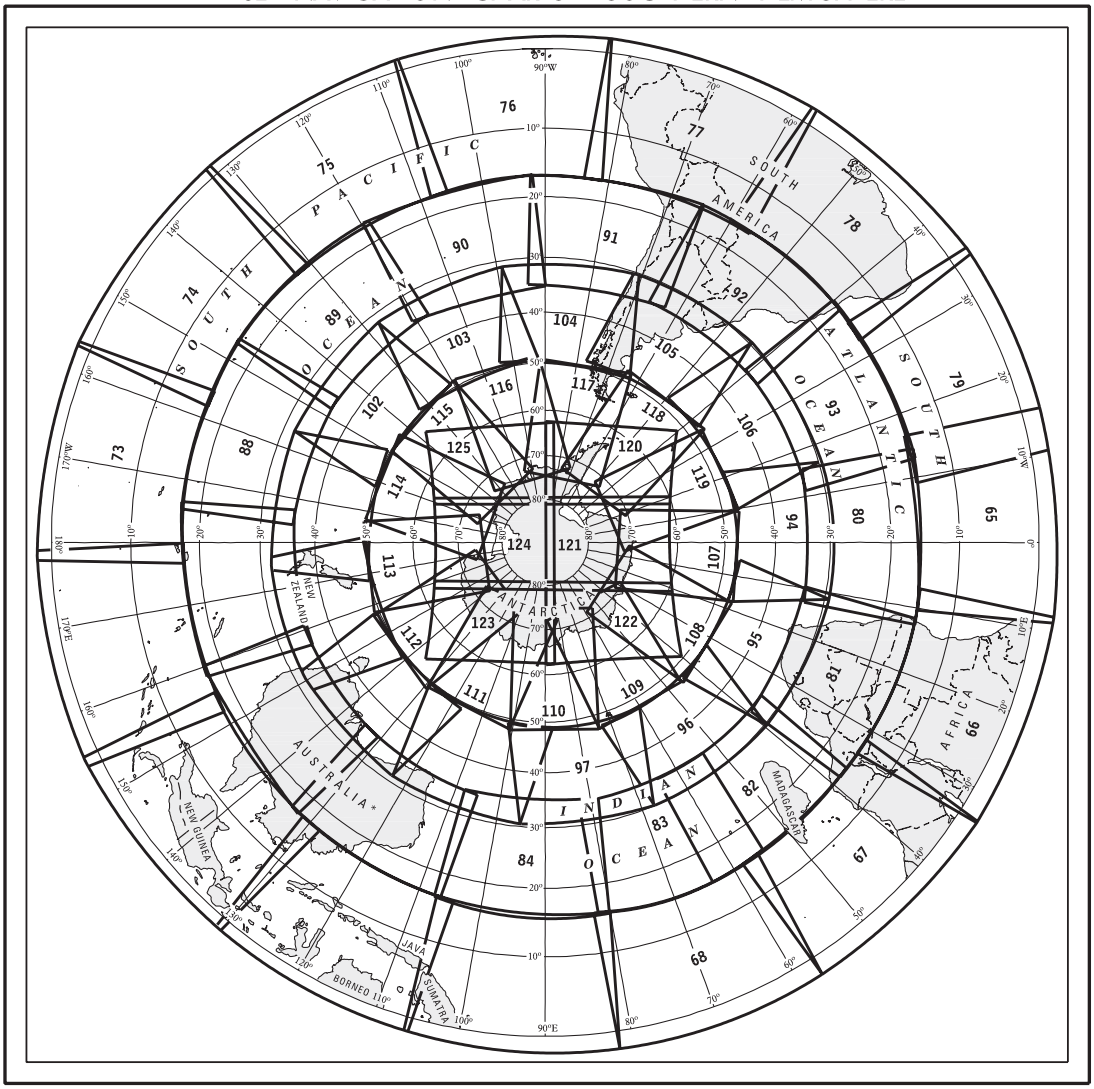
SEE JNC GRAPHICS ON page 48 AND page 49

JET NAVIGATION CHARTS – NORTHERN HEMISPHERE



*Published JNU

JET NAVIGATION CHARTS – SOUTHERN HEMISPHERE



* REFER TO INSIDE FRONT COVER FOR AUSTRALIAN CHART INFORMATION.

Jet Navigation Charts (JNC). JNCAs satify requirements for high altitude, long range navigation over the polar areas and for training purposes in the U.S. They are similar to the JNC series described elsewhere. (Scale 1:3,000,000)

JET NAVIGATION CHART

PUBLISHED BY
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Scale: 1:3,000,000

Projection: 1-Transverse Mercator. 1:3,000,000 scale at 90° East and 90° West meridian. 5-LambertConformal conic.

Size: 41-5/8" by 57-1/2"

Purpose: The JNCA provides coverage to satisfy requirements for high-altitude, long range navigation over the polar areas and for training purposes in the U.S. Design characteristics are similar to the JNC scale 1:2,000,000. Being of a smaller scale, the JNCA provides expanded coverage over that afforded by the JNC.

Style: Partial margin, multicolor, pictorial relief, military (UTM, UPS, BRITISH) grids, strip chart features, no backup.

Information Shown:

Relief: Contours, spot elevations, and gradient tints with relief categorized as accurate to within 500', 1000', 1500', and 2000'. Pictorial relief on 3 and 5. Large level terrain areas with elevations are symbolized for radar altimetry.

Culture: Princpal cities, towns, road and rail networks. In the area immediately surrounding populated places a complete transportation network is shown.

Hydrography: Lakes, principal drainage, permanent ice and snow areas and limits of polar ice pack. Lake elevations given for radar altlmetry. Open water vignetted.

Vegetation: None.

Aeronautical: Stable aeronautical overprint. Major airfields by pattern.

STOCK NUMBER

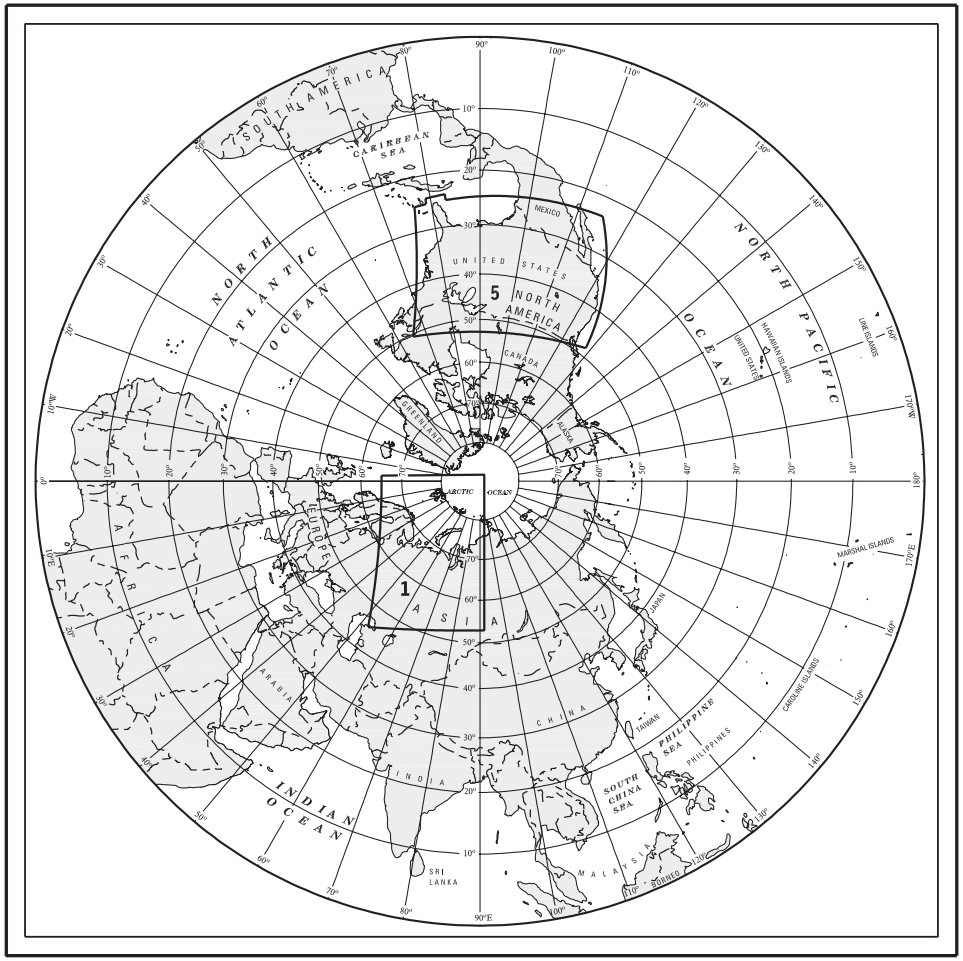
➔JNCA1

➔JNCA5

➔This product will be for sale until stock is depleted.

JNCA5 is available on CD-ROM. To order digital form, add a preceding D to the basic stock number, i.e., JNCA5 will be DJNCA5.

JET NAVIGATION CHARTS



All charts shown on this index are published.

LORAN-C Navigation Charts (LCNC). LCNCs are a series of three charts used for precise long range polar LORAN navigation. They serve as a companion series to the related JNCA series. (Scale 1:3,000,000)

LORAN-C NAVIGATION CHART

PUBLISHED BY
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Scale: 1:3,000,000

Projection: Transverse Mercator, 1:3,000,000 scale at 90° East, and 90° West meridian.

Size: 41-5/8" by 57-1/2"

Purpose: These LORAN "C" Navigation Charts serve as a companion series to the related JNCA series. The addition of LORAN "C" overprints to the standard JNCA base satisfies precise long range electronic polar navigation requirements in support of weather reconnaissance, air search and rescue missions, and other operations in the Arctic Area.

Style: Partial margin, multicolor, no backup, navigation grid, GEOREF index.

Information Shown:

Relief: Spot elevations, solid land tint.

Culture: Major cities, railraods and roads.

Hydrography: Coast lines, major lakes and rivers

Vegetation: None.

Aeronautical: Stable aeronautical information. LORAN lines of position, major airfield by pattern

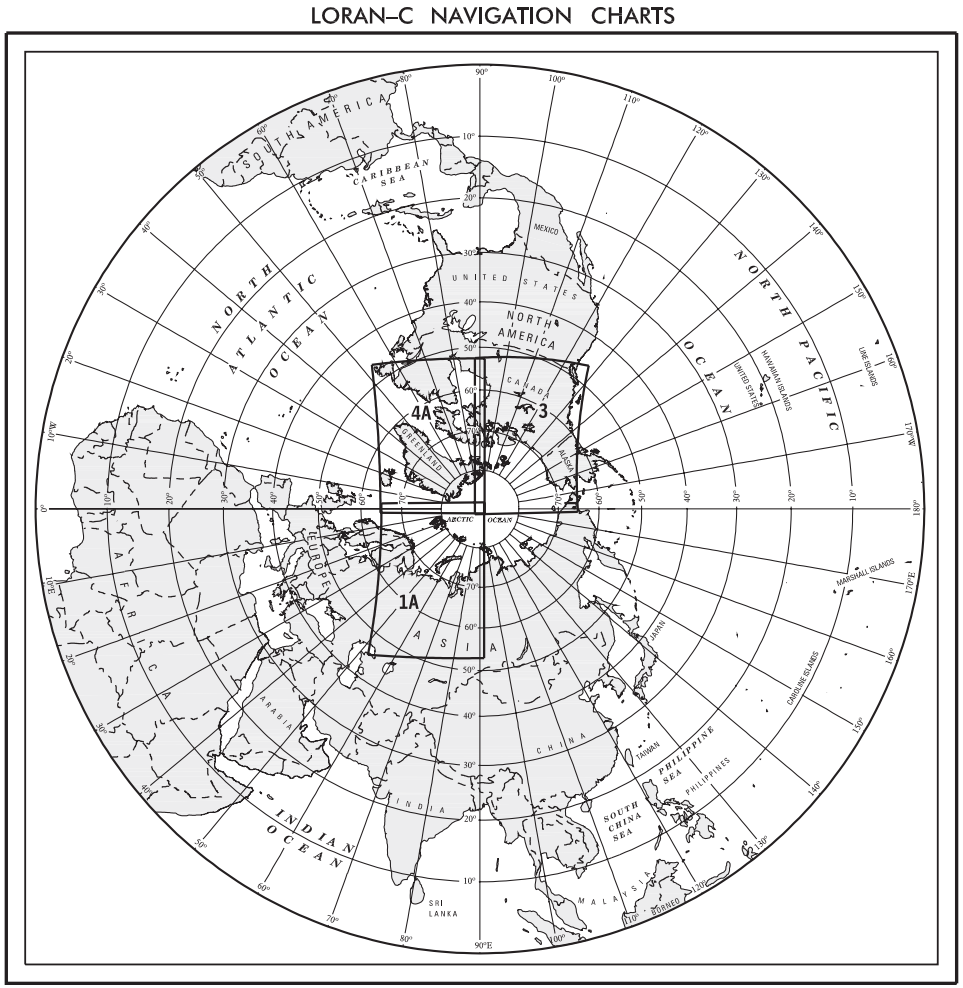
STOCK NUMBER

➔LCNC1A

➔LCNC3

➔LCNC4A

NOTE: ➔This product will be for sale until stock is depleted.



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OCEANIC PLANNING CHART

PUBLISHED BY
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Scale: 1:10,000,000 to 1:20,000,000

Projection: OPC 1, 4/5-Lambert Conformal Conic with Standard Parallels 30°/60°.

Size: OPC 1, 16.5 wide by 10.5" high OPC 4/5-32" wide by 24" high

Purpose: Designed as an issue item for aircraft making transoceanic flights whose aircrew excludes a navigator. Used for pre- and in-flight planning, rapid in-flight orientation and assessment of location/position for determining alternate routes to diversion airfields should circumstances warrant.

Style: Minimum base detail, extensive selected aeronautical information extending to trim limits on four sides, monocolor with landmass tint.

Information Shown:

Relief: None.

Culture: International boundaries, land tint.

Hydrography: Continental outlines.

Aeronautical: Selected radio aids, airspace reservations and no-wind equal-distance lines between select diversion airfields

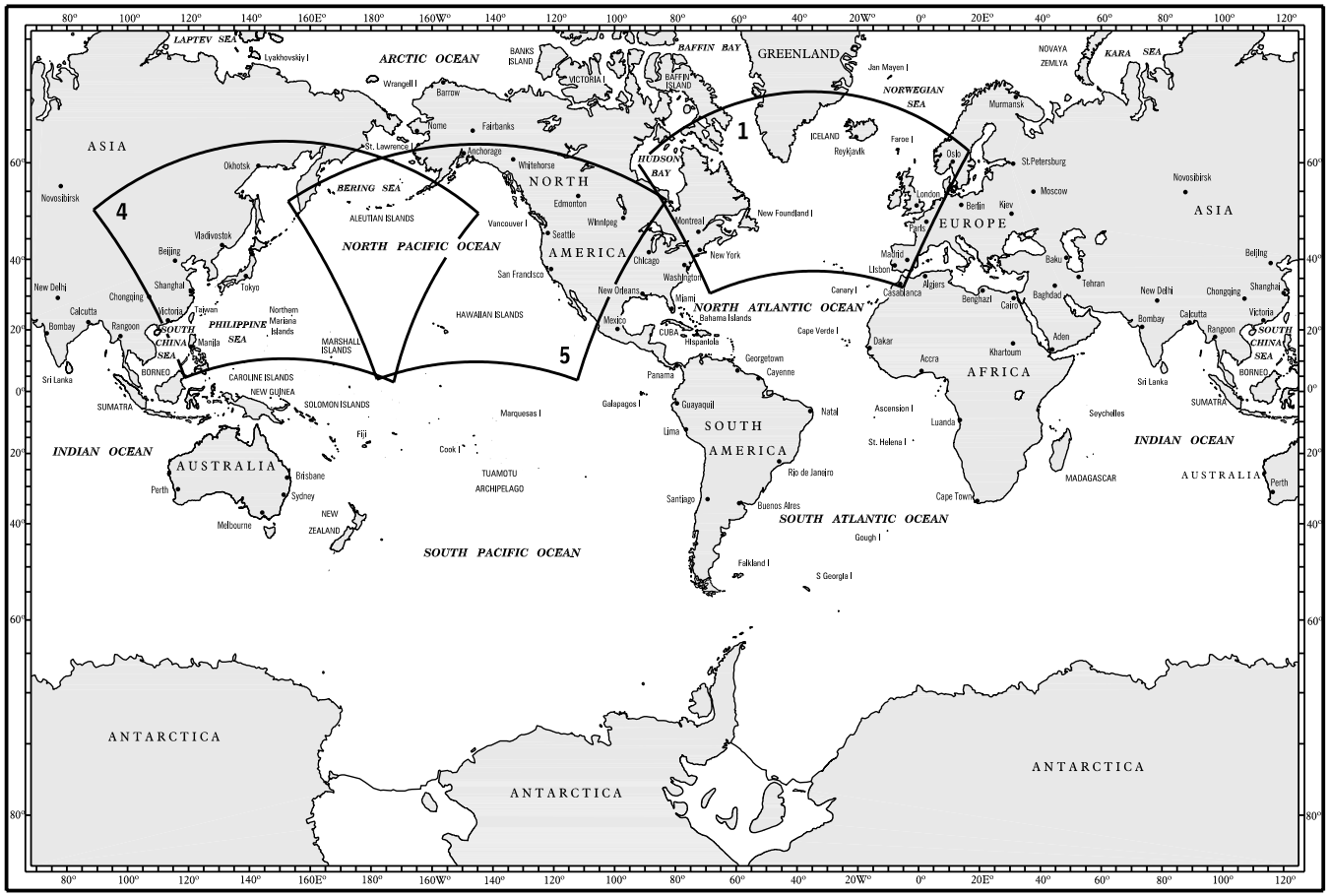
STOCK NUMBER

OPC1

OPC4

NOTE: All charts in this series are printed back-to-back. OPC1 comes in a 50-sheet pad (100 charts). OPC4 and OPC5 come in single sheets printed back-to-back.

OCEANIC PLANNING CHARTS



All charts shown on this index are published.

Joint Operations Graphics - Air (JOG-As). JOG-As are suitable for pre-flight and operational functions at the 1:250,000 scale. See graphics on pages 64 - 73.

STOCK NUMBER
JOGNA1708
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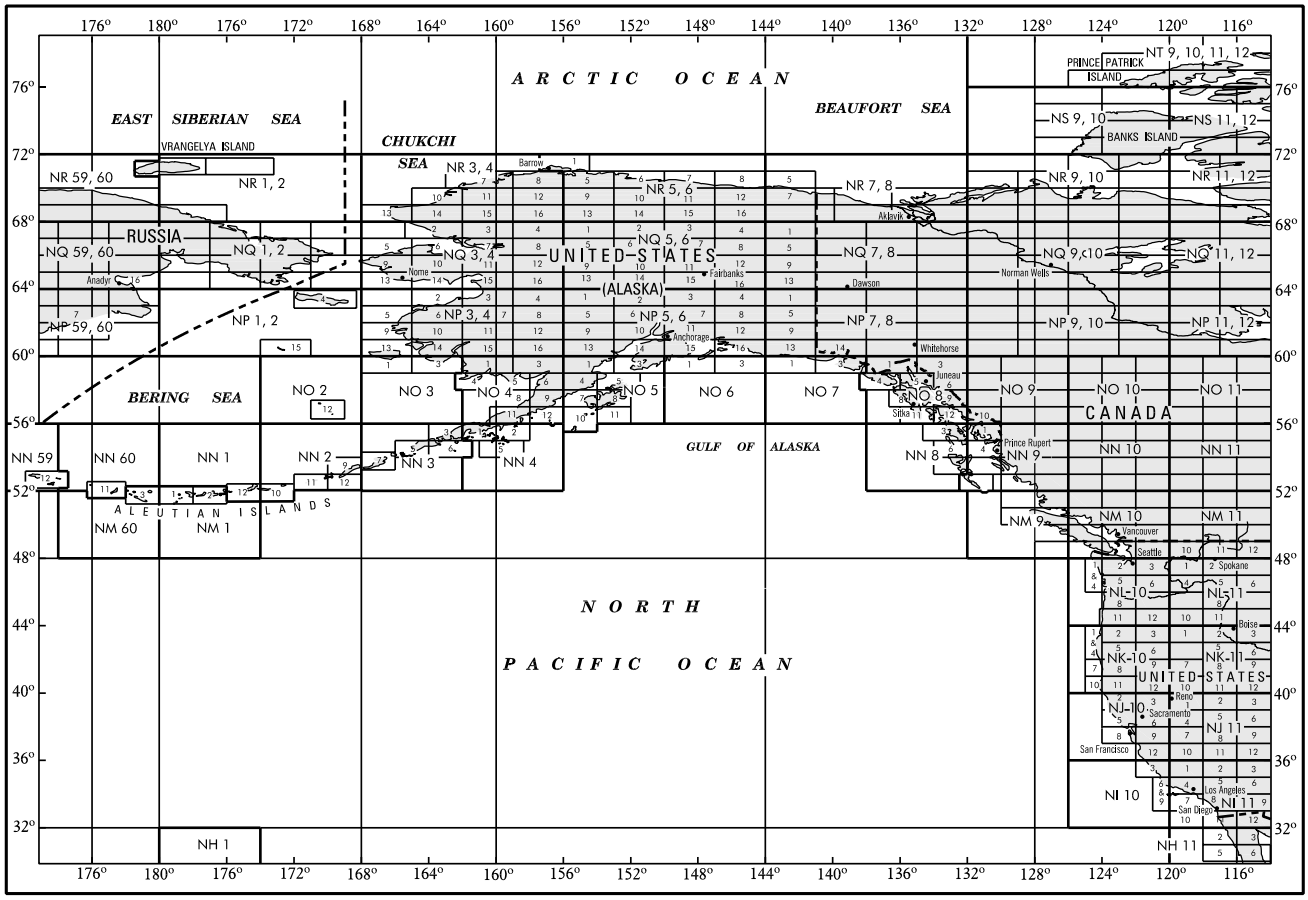
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EAST SIBERIAN SEA
CHUKCHI SEA
BEAUFORT SEA
VRANGELYA ISLAND
RUSSIA
UNITED STATES
(ALASKA)
BERING SEA
GULF OF ALASKA
ALEUTIAN ISLANDS
CANADA
NORTH PACIFIC OCEAN
PRINCE PATRICK ISLAND
BANKS ISLAND
NR 59, 60
NR 1, 2
NR 3, 4
NR 5, 6
NR 7, 8
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Anadyr
Fairbanks
Dawson
Norman Wells
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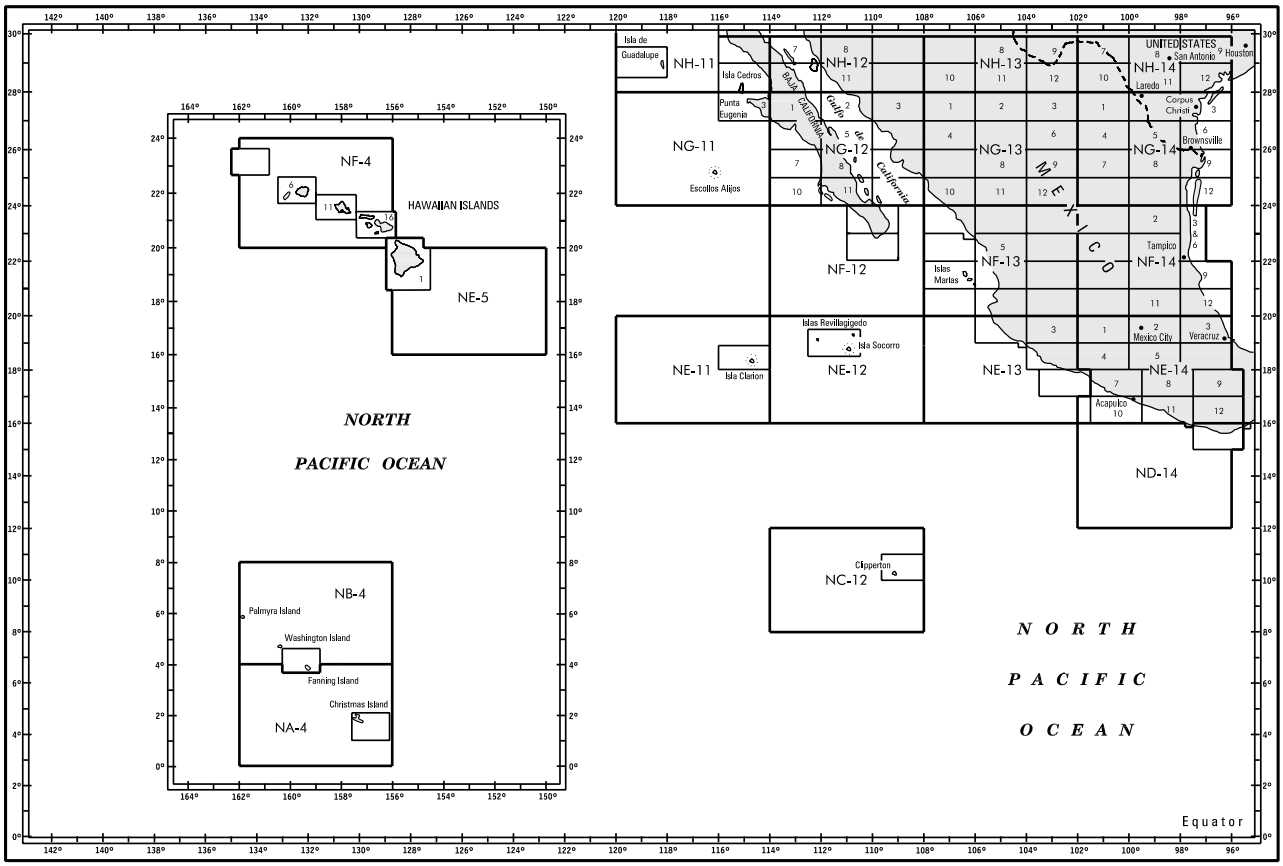
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NB-4
NA-4
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Washington Island
Fanning Island
Christmas Island
MEXICO
UNITED STATES
Isla de Guadalupe
Isla Cedros
Punta Eugenia
Escollos Alijos
Islas Marias
Islas Revillagigedo
Isla Socorro
Isla Clarion
Cipperton
Golfo de California
Baja California
San Antonio
Houston
Laredo
Corpus Christi
Brownsville
Tampico
Mexico City
Veracruz
Acapulco
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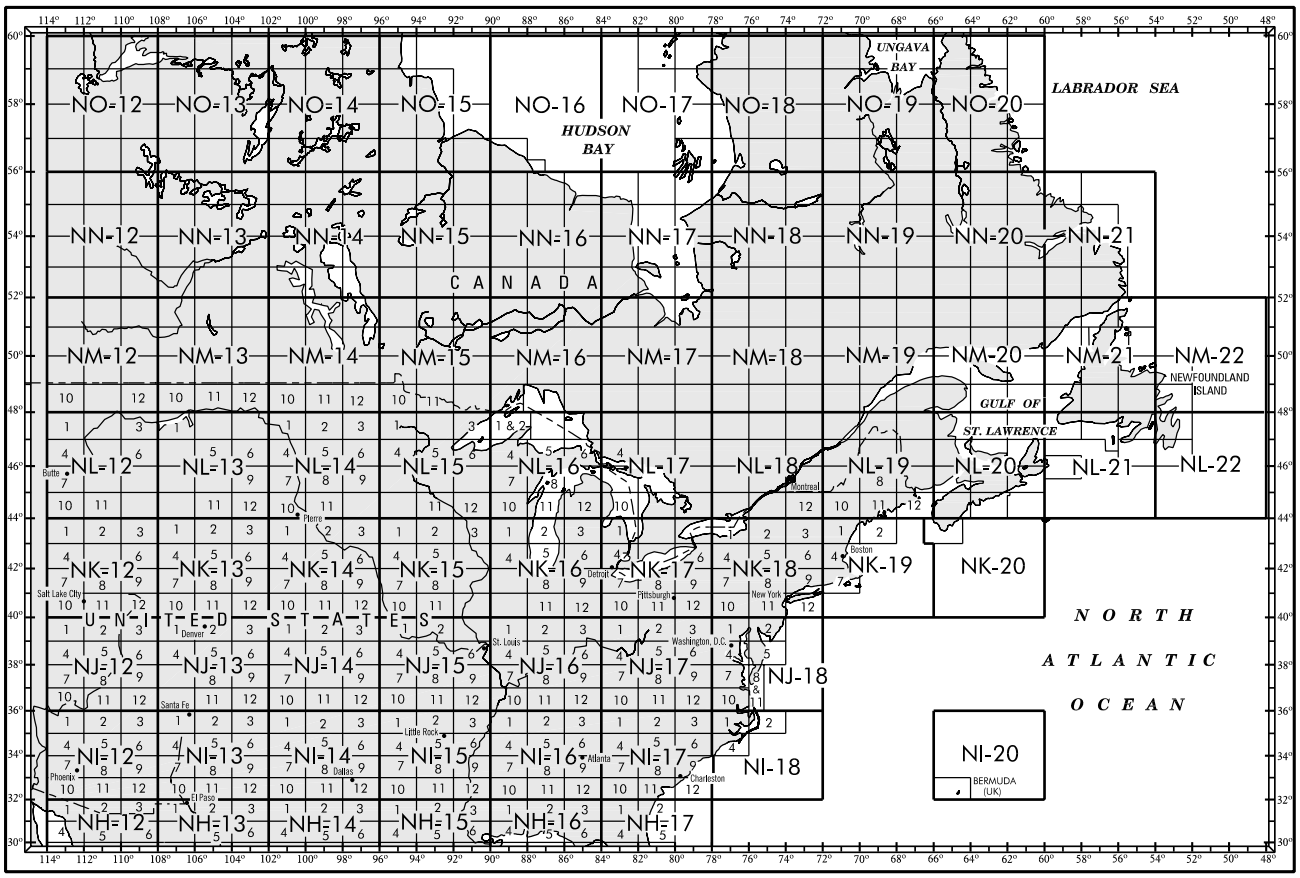
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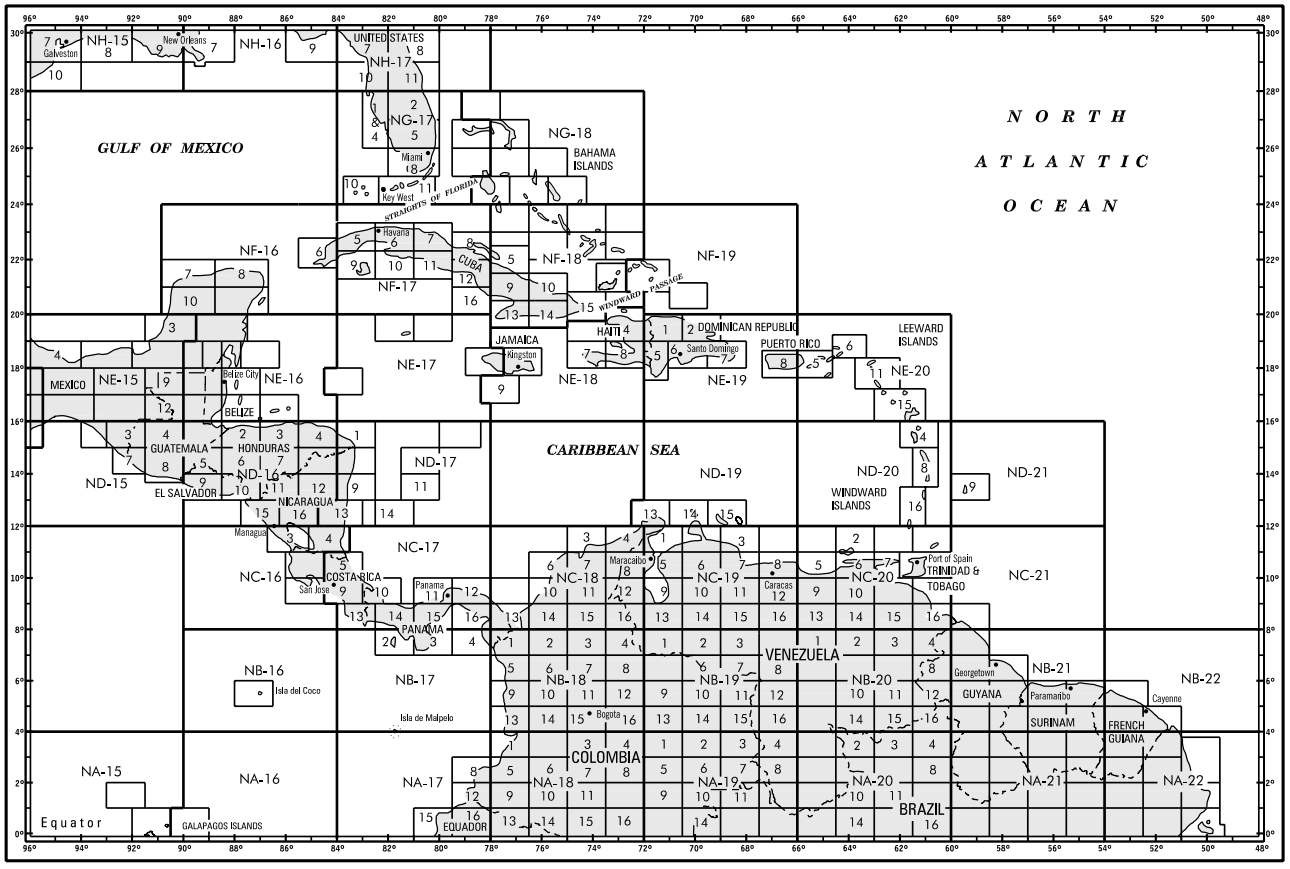
UNITED STATES
CANADA
HUDSON BAY
UNGAVA BAY
LABRADOR SEA
GULF OF ST. LAWRENCE
NEWFOUNDLAND ISLAND
NORTH ATLANTIC OCEAN
BERMUDA (UK)
Butte
Pierre
Montreal
Boston
Salt Lake City
Denver
Detroit
Pittsburgh
New York
St. Louis
Washington, D.C.
Santa Fe
Little Rock
Atlanta
Phoenix
Dallas
Charleston
El Paso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UNITED STATES
GULF OF MEXICO
NORTH ATLANTIC OCEAN
CARIBBEAN SEA
BAHAMA ISLANDS
STRAITS OF FLORIDA
CUBA
WINDWARD PASSAGE
HAITI
DOMINICAN REPUBLIC
PUERTO RICO
LEEWARD ISLANDS
WINDWARD ISLANDS
JAMAICA
MEXICO
BELIZE
GUATEMALA
HONDURAS
EL SALVADOR
NICARAGUA
COSTA RICA
PANAMA
VENEZUELA
COLOMBIA
GUYANA
SURINAM
FRENCH GUIANA
BRAZIL
TRINIDAD & TOBAGO
ISLA DEL COCO
ISLA DE MALPELO
GALAPAGOS ISLANDS
EQUADOR
Equator
Galveston
New Orleans
Miami
Key West
Havana
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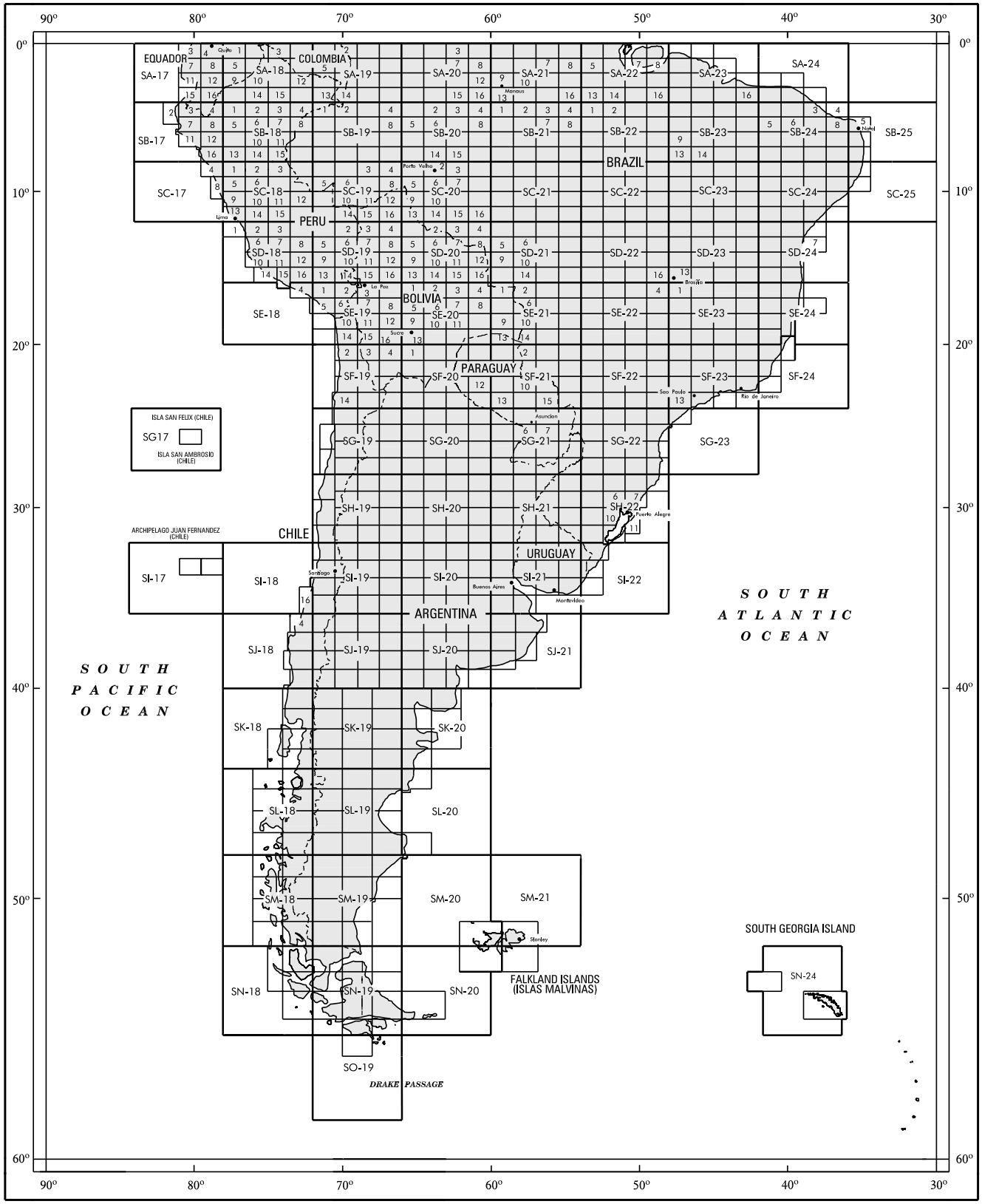
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EQUADOR
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ARGENTINA
SOUTH PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
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SG17
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ARCHIPELAGO JUAN FERNANDEZ (CHILE)
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SOUTH GEORGIA ISLAND
SN-24
DRAKE PASSAGE
Quito
Lima
Porto Velho
Manaus
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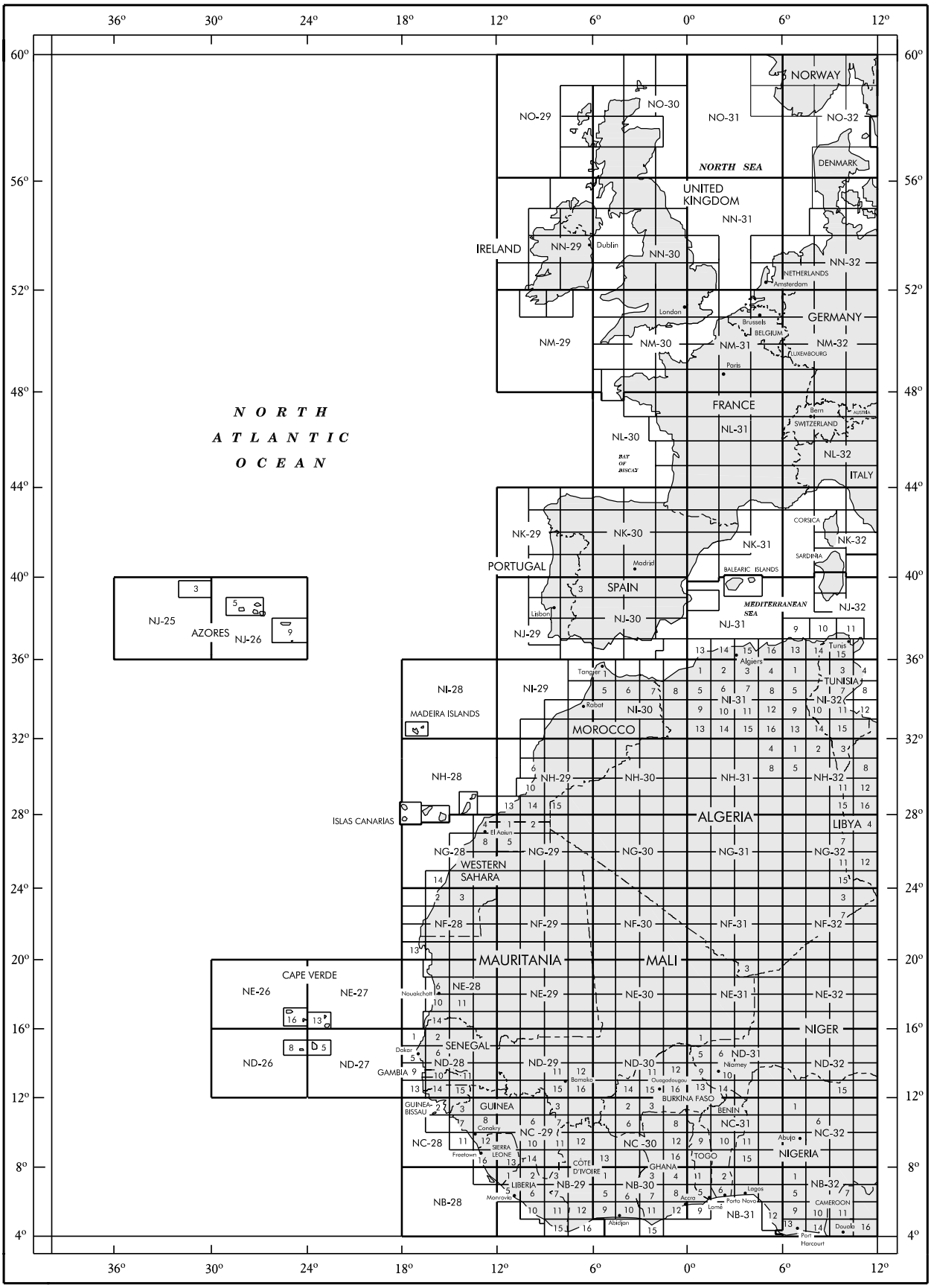
Stanley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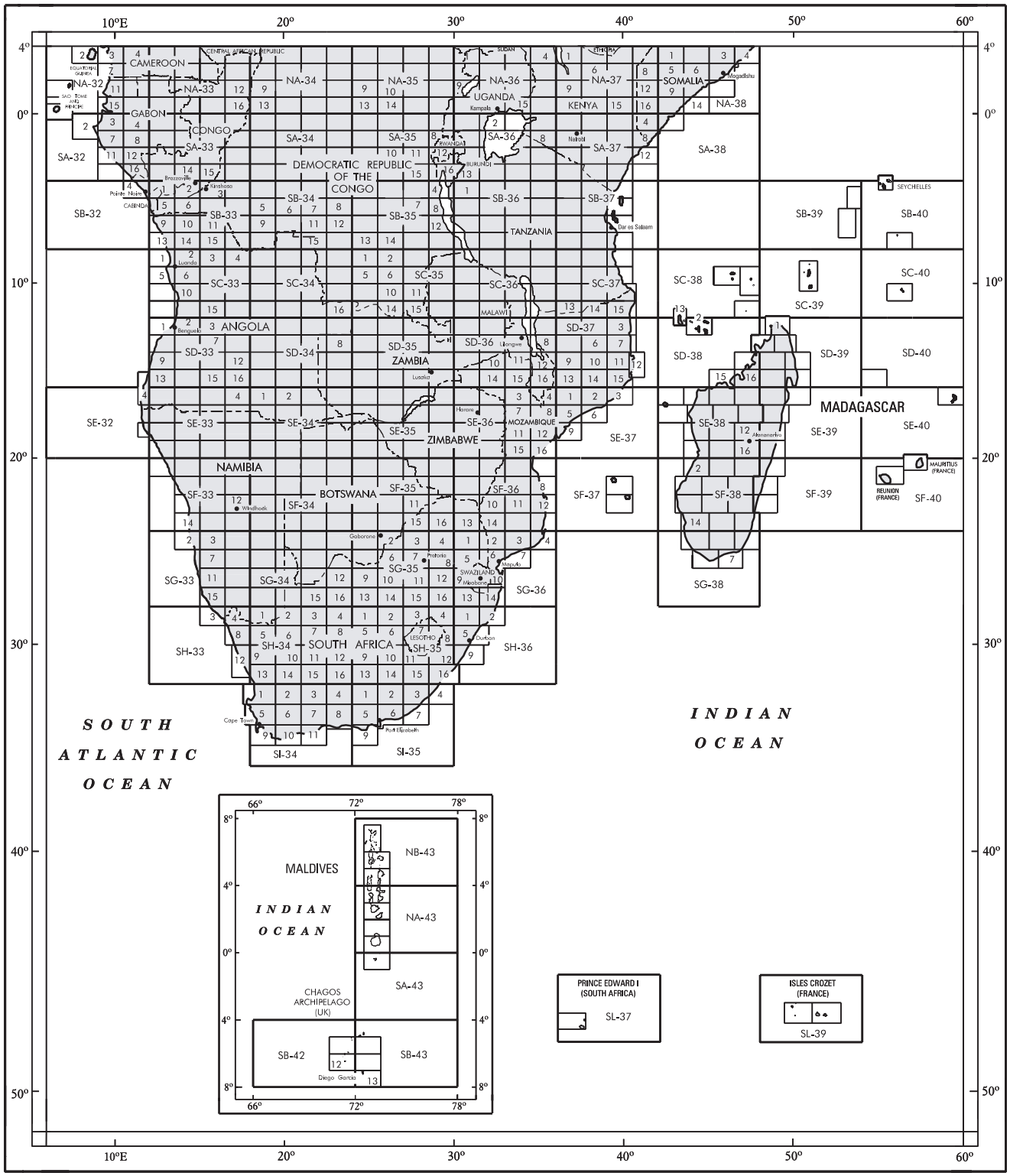
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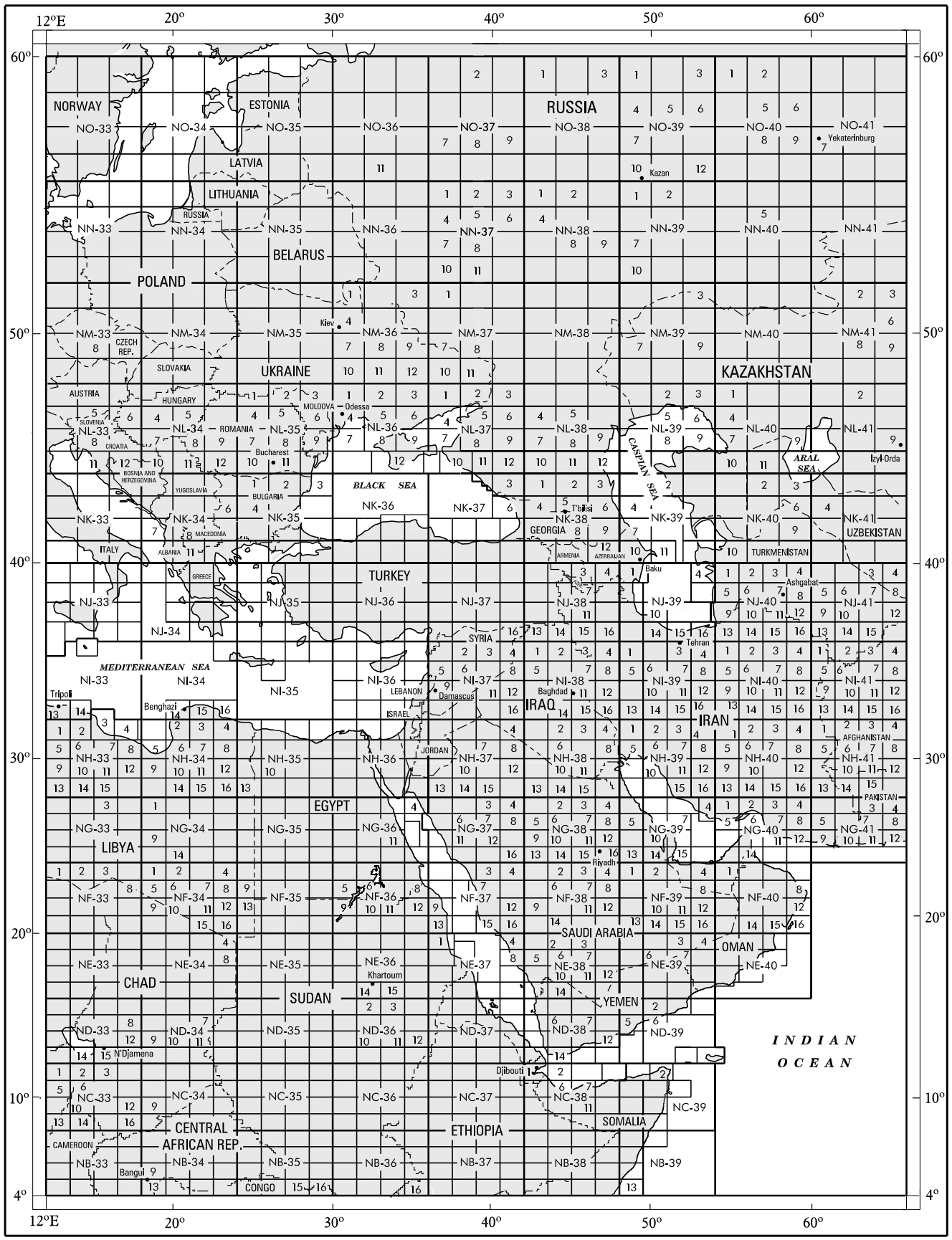
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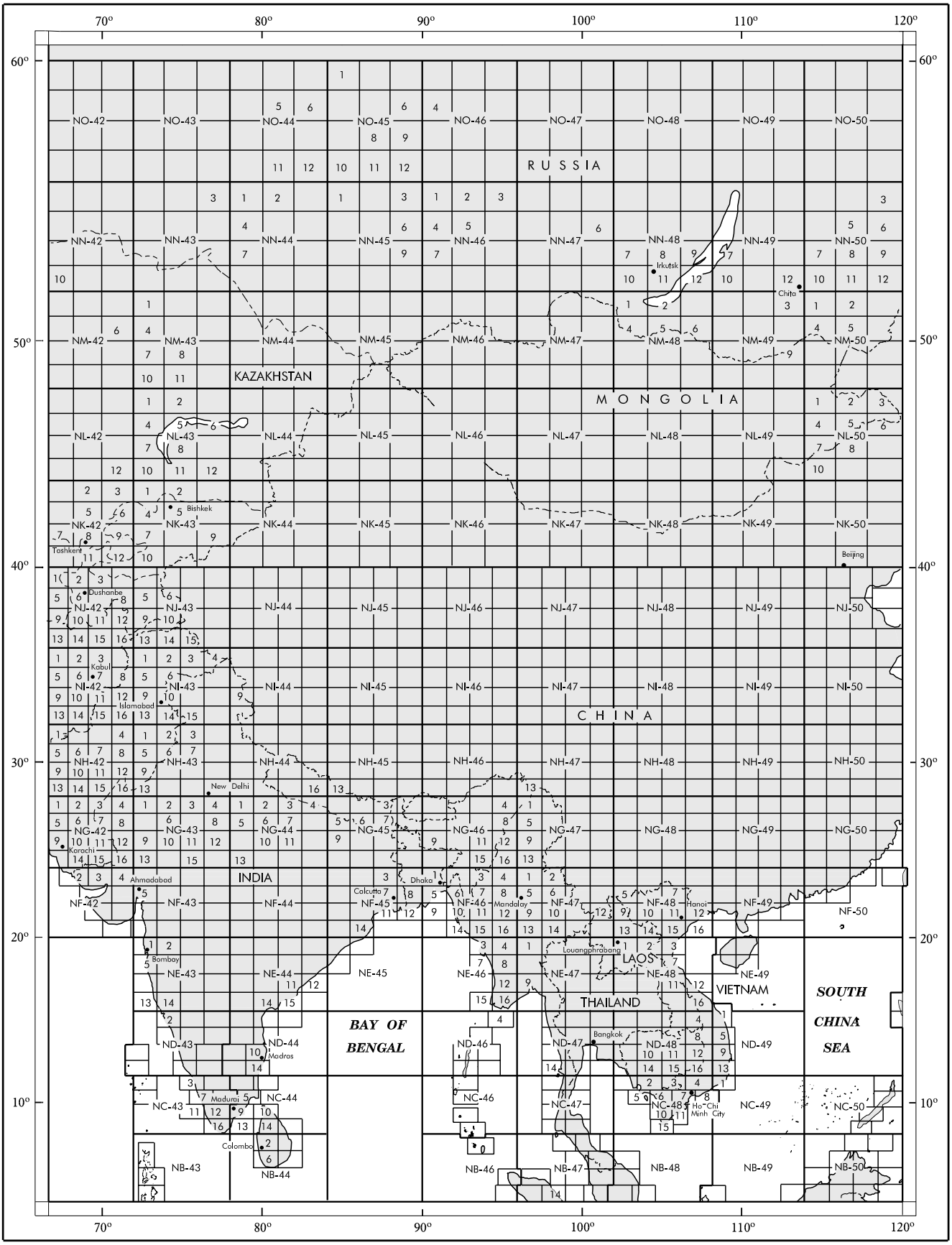
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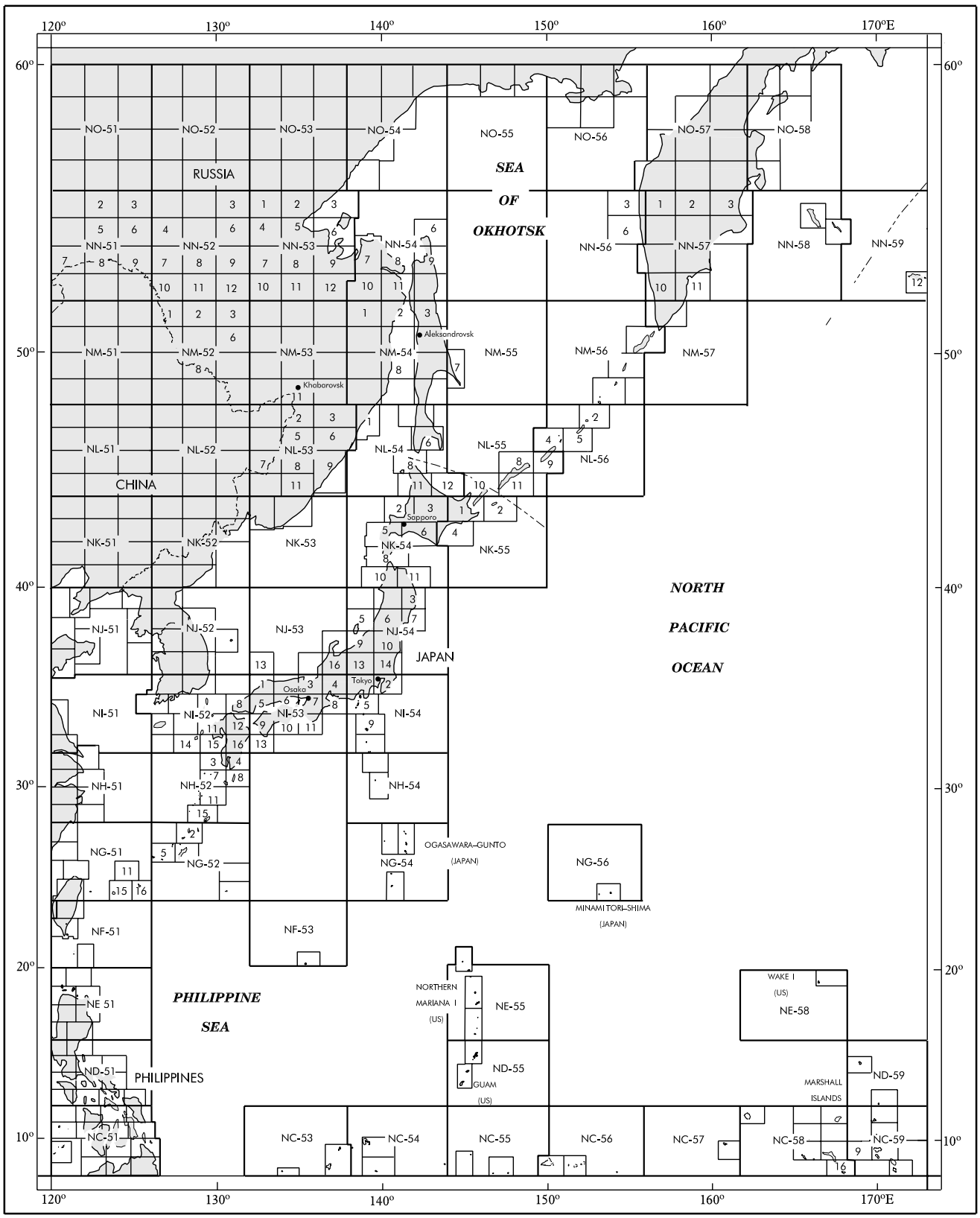
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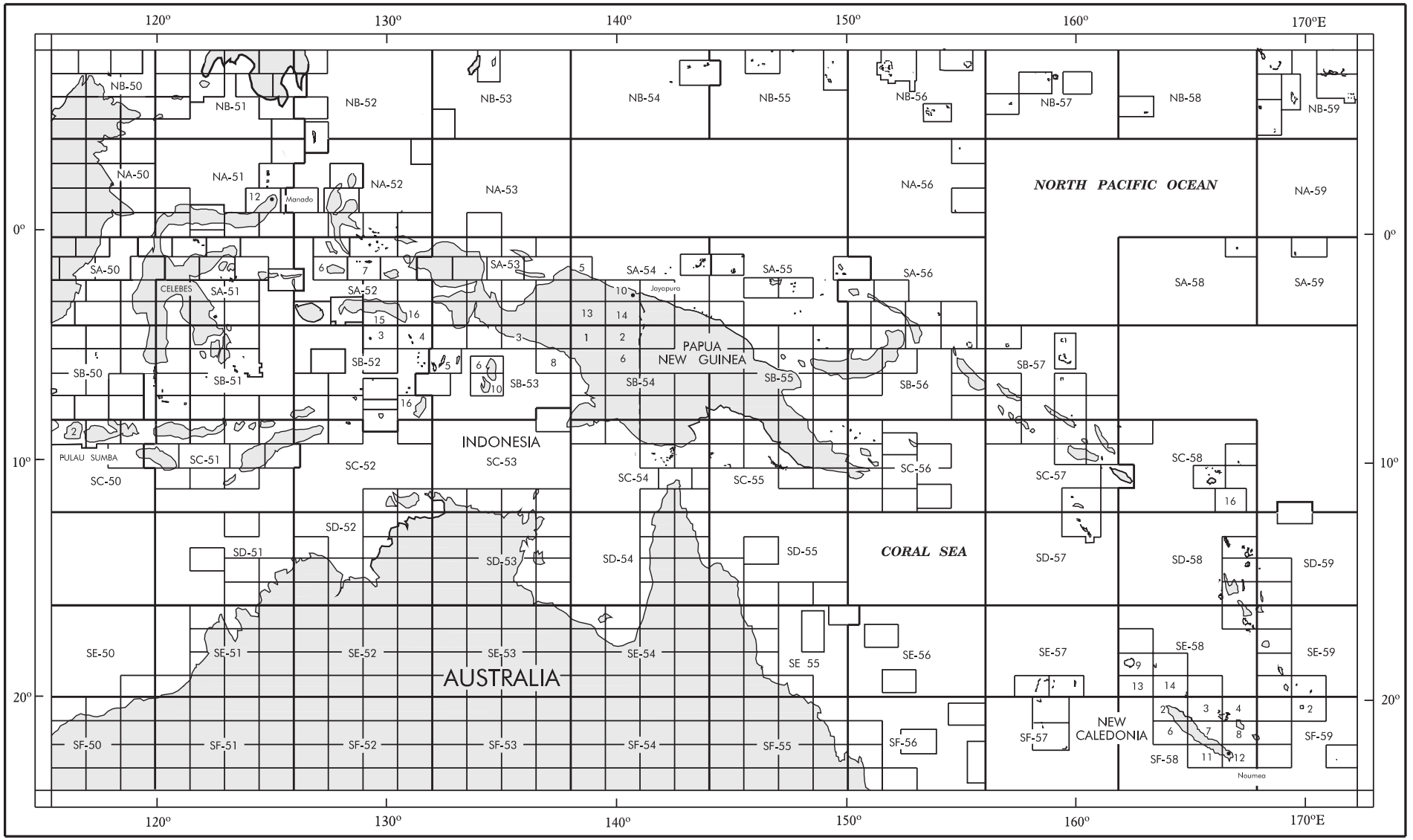
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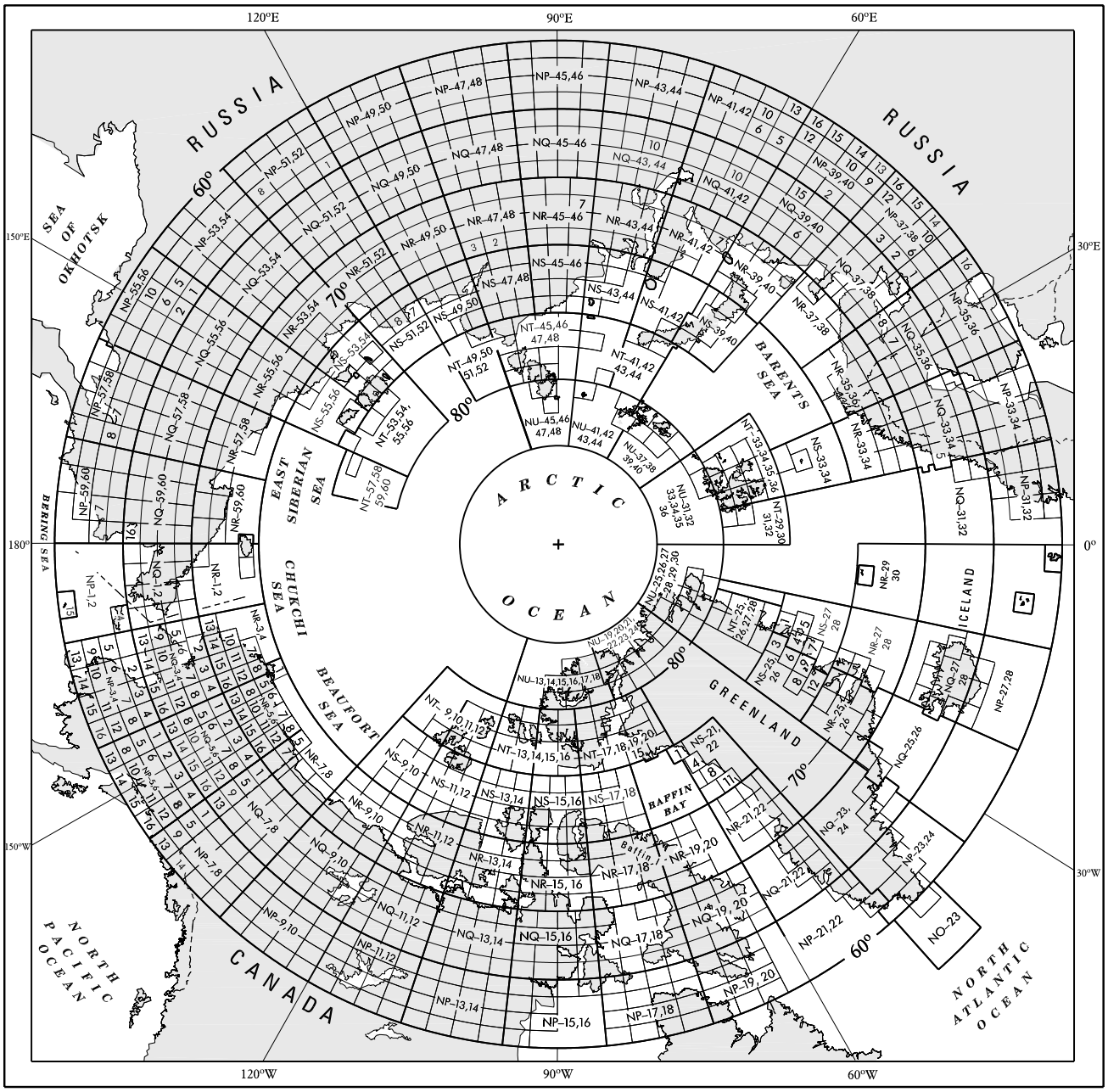
JOINT OPERATIONS GRAPHICS – AIR



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GNC	SIC1
JNC	SIC2
ONC	SIC3
TPC	SIC4
JOG	SIC5

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AIRWAYS
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