**CONTENTS**

<table>
<thead>
<tr>
<th>General Information</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aeronautical Charts Published and Distributed by the U.S. Coast and Geodetic Survey</td>
<td>2-3</td>
</tr>
<tr>
<td>District Offices, Distribution and Information Centers - U.S. Coast and Geodetic Survey</td>
<td>4</td>
</tr>
<tr>
<td>Planning Charts - U.S. and Alaska</td>
<td>5</td>
</tr>
<tr>
<td>Aircraft Position Charts</td>
<td>6</td>
</tr>
<tr>
<td>Direction Finding Charts - U.S.</td>
<td>7</td>
</tr>
<tr>
<td>Direction Finding Charts - Alaska Region</td>
<td>8</td>
</tr>
<tr>
<td>Route Charts</td>
<td>9</td>
</tr>
<tr>
<td>World Aeronautical Charts - U.S.</td>
<td>10</td>
</tr>
<tr>
<td>World Aeronautical Charts - Alaska</td>
<td>11</td>
</tr>
<tr>
<td>Flight Charts - U.S.</td>
<td>12</td>
</tr>
<tr>
<td>Flight Charts Alaska</td>
<td>13</td>
</tr>
<tr>
<td>Sectional Charts - U.S.</td>
<td>14</td>
</tr>
<tr>
<td>Local Charts - U.S.</td>
<td>15</td>
</tr>
<tr>
<td>Instrument Approach and Landing Charts - U.S. Alphabetical List by States</td>
<td>16-17-18-19</td>
</tr>
<tr>
<td>Instrument Landing System Charts - U.S. Alphabetical List by States</td>
<td>20</td>
</tr>
<tr>
<td>Obstruction Plans</td>
<td>21-22-23</td>
</tr>
<tr>
<td>Radio Facility Charts - U.S.</td>
<td>24</td>
</tr>
<tr>
<td>Radio Facility Charts - Alaska</td>
<td>25</td>
</tr>
</tbody>
</table>

**PART 2**

<table>
<thead>
<tr>
<th>USAF and Navy Aeronautical Charts Distributed by the U.S. Coast and Geodetic Survey</th>
<th>26</th>
</tr>
</thead>
<tbody>
<tr>
<td>USAF Aeronautical Planning Charts</td>
<td>27</td>
</tr>
<tr>
<td>USAF Long Range Air Navigation Charts</td>
<td>28</td>
</tr>
<tr>
<td>USAF Navigational Flight Charts</td>
<td>29</td>
</tr>
<tr>
<td>USAF Special Navigation Charts</td>
<td>30</td>
</tr>
<tr>
<td>USAF Special Plotting and Special Aeronautical Charts</td>
<td>31</td>
</tr>
<tr>
<td>USAF Air Navigation Charts</td>
<td>32</td>
</tr>
<tr>
<td>USAF World Aeronautical Charts</td>
<td>33-34-35-36-37</td>
</tr>
<tr>
<td>USAF Flight Charts</td>
<td>38-39-40-41</td>
</tr>
<tr>
<td>USAF Instrument Approach and Landing Charts (Foreign)</td>
<td>42-43-44-45-46</td>
</tr>
<tr>
<td>USAF Pilot’s Handbooks (Foreign)</td>
<td>47</td>
</tr>
<tr>
<td>Naval Aviation Charts, V-30 SERIES</td>
<td>48</td>
</tr>
<tr>
<td>Naval Aviation Charts, V-70 SERIES</td>
<td>49</td>
</tr>
</tbody>
</table>

Authorized Agents - U.S. Coast and Geodetic Survey | 50-51-52-53 |
GENERAL INFORMATION

PURCHASE

Unless otherwise noted, the publications listed herein may be obtained from The Director, U.S. Coast and Geodetic Survey, Washington 25, D. C., from the District Offices and Distribution Centers, listed on page 4 or from the Authorized Agents listed on pages 50 thru 53. A discount of 33 1/3% is allowed for charts on an order, in one shipment to one address, of ten dollars or more.

DATES OF LATEST PRINTS

Regularly revised lists, Dates of Latest Prints, for the several series of Aeronautical charts published by the Coast and Geodetic Survey, may be obtained from the Director, U.S. Coast and Geodetic Survey, Washington 25, D. C. or from any District Office or authorized agent listed herein. These lists are published to help insure that only the latest charts are used by aviators.

INQUIRIES

Users of these Aeronautical Charts, having questions, suggestions or information regarding the charts are invited to write to the Director at the above, Washington, D. C., address.

CHART CONSTRUCTION

PROJECTIONS

A projection, which is the framework for the construction of a chart, is a systematic representation on a plane surface of lines of latitude and longitude. Since no portion of a sphere may be represented on a plane surface without distortion, many systems of projection have been devised, each intended to serve some particular purpose or to preserve some special property of the sphere. Some of the properties which it is desirable to have in a chart are:

(1) The true shape of physical features.
(2) Correct angular relationships.
(3) Equal areas, or the representation of areas in their correct relative proportions.
(4) True scale values for measuring distances.
(5) The representation of great circles as straight lines.
(6) The representation of rhumb-lines as straight lines.
(7) A compromise between several desirable properties.

It is possible to represent any one property, sometimes more than one, on a flat map, depending on the type of projection, but it is impossible to represent all of them on any one map. Thus, when constructing a chart, it is necessary to select the projection which most nearly provides the properties desired. The two principal projections used on charts of the Coast and Geodetic Survey are the Mercator and the Lambert conformal.

Almost all aeronautical charts published by the Coast and Geodetic Survey are constructed on the Lambert projection, in which meridians are converging straight lines and parallels are arcs of concentric circles. On this projection, directions conform very closely to those on the earth's surface; and along the two selected "standard parallels," on which the projection is based, the scale is true, while between and beyond them there are small variations in the scale. For all practical purposes, the navigator may consider the scale as uniform throughout the chart and a straight line between any two points as the arc of a great circle. Thus, the Lambert projection provides a chart especially well adapted for presenting information relating to air navigation.

For aeronautical planning charts of the polar areas, a stereographic projection is used, while for certain special charts in equatorial regions, the Mercator projection is used.

SCALE EQUIVALENTS

<table>
<thead>
<tr>
<th>At Scale</th>
<th>One Nautical Mile=</th>
<th>One Statute Mile=</th>
<th>One Inch=</th>
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<tr>
<td></td>
<td>Inches</td>
<td>Centimeters</td>
<td>Inches</td>
</tr>
<tr>
<td>1:31,680</td>
<td>2.393</td>
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RELATED PUBLICATIONS

PUBLISHED BY THE CIVIL AERONAUTICS ADMINISTRATION

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON 25, D. C.


Civil Aeronautics Journal, the official periodical of the Civil Aeronautics Administration and the Civil Aeronautics Board. Published on the 15th of each month, it carries articles and news items dealing with civil aeronautics; information as to certificates and approvals issued; and notice of the issuance of new or revised publications. Subscriptions may be purchased at 75 cents per year or single copies at 10 cents each.

Civil Aeronautics Bulletins:
No. 5 Flight Instructor's Manual (revised).
No. 23 Civil Pilot Training Manual.
No. 25 Meteorology for Pilots.
No. 28 Aerodynamics for Pilots.
No. 27 Pilot's Airplane Manual.
No. 31 Patter for Elementary Flight Maneuvers.
No. 32 Fundamentals of Elementary Flight Maneuvers.
Path of Flight.
Realm of Flight.
Facts of Flight.
Terrain Flying.
The Tricks of the Trade.

A-3399-1(55)++
AERONAUTICAL CHARTS

AERONAUTICAL CHARTS PUBLISHED AND DISTRIBUTED BY THE COAST AND GEODETIC SURVEY

The aeronautical charts published by the U. S. Coast and Geodetic Survey are specially designed for use in air navigation and emphasis is given to features of aeronautical importance. They have proved useful for many other purposes, among those series which provide contoured maps at a uniform scale.

The topographic features (shoreline, streams, elevations, roads, railroads, cities and towns, and many prominent landmarks) are compiled from the best material available in any given area. Price: 25 cents each. Some more than 50 miles of principal sources are used, but the principal sources are the chart data provided by the U. S. Coast and Geodetic Survey, the topographic quadrangles of the U. S. Geological Survey and other agencies; the aerial photographs of the U. S. Department of Agriculture; and the county maps of the various states. For aeronautical charts of areas outside the United States, still other sources must be used. A note in the lower left margin of each chart indicates the general sources used in compilation.

Vertical relief is shown by contours and a system of "gradient tints." Shades of green, suggesting the verdant lowlands, are used for elevations up to 3,000 feet above sea level; varying shades of brown are used for the higher elevations, the darkest brown, suggestive of the barren uplands, being used for the highest elevations.

Upon the basic chart, aerodromes, rotating lights, radio range stations, and other aeronautical data are overprinted, usually in magenta.

FLIGHT CHECK

Before final publication, a flight check is made with a preliminary copy of the chart by an experienced observer and details of the chart are compared with the ground below. Necessary corrections are indicated, and any prominent landmarks are noted for addition to the charts. In the event of extensive chart changes the observer locates the local source maps showing the necessary information; more often, the changes are drawn in at the time of observation. Some of the most important information is obtained from the flight check.

DATE OF INFORMATION

Once the information on a chart has become obsolete, its further use for navigation becomes a definite hazard. One of the most important items of information on every chart is the date of the compilation represented. On the aeronautical charts of the United States and possessions, the date of the aeronautical information is given in large red type, in the lower right margin. In general, it may be assumed that any important changes in the topographic information for which data are available have also been applied. On some aeronautical charts, separate dates are often given for the aeronautical data and for the other information shown.

A new set of chart dates of the latest prints of charts of the United States and possessions is published in the Airman's Guide, and is also available as a separate list, which will be furnished upon request as stated on page 1 under heading "Dates of Latest Prints." By checking the dates of each chart against this list, pilots may know whether the chart is current or obsolete. In any case, the chart should be brought up to date by applying the latest Airman's Guide after the date of the charted information. It is assumed that the pilot, and of the public, makes it imperative that obsolete charts be replaced by new charts as issued.

DESCRIPTION AND USE

As with surface navigation, charts of widely varying scales are required to meet the different needs in air navigation. Scales range from 1:5,000,000 for planning charts to 1:31,680 for the landing side of the Instrument Approach and Landing Charts. A description of the various charts and series follows:

Planning Charts.*—AP-9 and 3069a. Scale 1:5,000,000 (78.91 statute miles to the inch). These charts are designed for planning routes between distant points, and show the principal cities and towns, drainage, contours and gradient tints, and aeronautical data. The planning chart of Alaska (3069a) connects with and overlaps part of the planning chart of the United States, and a facility ring indicates the United States and Alaska. Price, 40 cents each. Designated thus: AP-9. (Chart AP-9 supersedes 3069b which is now available without aeronautical data as a miscellaneous chart.)

3069b Scale 1:31,680 (47.34 statute miles to the inch). Wall chart of the United States, in two parts. An enlarged planning chart of the United States with an overprint showing principal aerodromes, civil airways, and the radio range system. Lambert Conformal Conic Projection. Price $1.00. Designated thus: 3069b.

Aircraft Position Charts.*—Mean scale 1:5,000,000. Charts now available are: North Atlantic, 3071; Western Europe and Africa, 3072; Caribbean Sea, 3073. They are printed in black on buff paper. These charts are for plotting position and are supplements to radio facility manuals. Topographic information is generalized and no relief is shown. The charts are inexpensive to use and are filed as part of flight record. Price, 10 cents each. Designated thus: 3071.

Route Charts.—Scale 1:2,000,000 (31.57 statute miles to the inch). The first of this series covers an area between Chicago, Illinois and Gander, Newfoundland (Chart Number 2021). Chart compilation is on an Oblique Conformal Projection, and great circle line on the chart, between Chicago and Gander, is a segment of a great circle and of a uniform scale. Elevations are delineated by frequent spot heights supplemented by gradient tints and the topographic information is as detailed as the scale permits. Aeronautical information is limited to selected aerodromes and the major radio data necessary for long range flights at high altitudes. Chart size approximately 28 by 54 inches flat; accordian folded to 13 by 13. Price, 25 cents each. Designed thus: 3021.

Direction Finding Charts.*—Scale 1:2,000,000 (31.57 statute miles to the inch). These charts are specially designed to facilitate plotting radio bearings. Magnetic compass roses are centered on the charted radio stations. Six charts cover the United States and the United States and Alaska region. Price, 10 cents each. They are designated by number and letters thus: 22 DF.

World Aeronautical Charts, U.S. and Alaska. *—Scale: 1:1,000,000 (15.78 statute miles to the inch). These charts replace the Regional Charts (M Series). Because of the reduced scale of this series, some landmarks and topographic data of the sectional charts have necessarily been omitted, but every effort is made to provide checks of the positions determined by navigational methods. Forty-three charts cover the United States, while fifteen charts are presently available for Alaska. All charts of this series are priced at 25 cents each, and are designated by letters and number thus: WAC 304.

Flight Charts.—Scale 1:1,000,000 (15.78 statute miles to the inch). These are strip charts and cover the principal air routes within the United States and Alaska, and the connecting routes between the United States and Alaska. Flight Charts are identical in detail with the World Aeronautical Charts. They are 14 inches wide and cover an approximately 100 miles on either side of the airway and 50 miles beyond terminal points. For convenience, all charts are folded to size approximately 7¼ by 14 inches. Thirty-seven Flight Charts are published for the United States and thirteen for Alaska and the connecting routes. Charts are priced at 25 cents each, and are designated by letters and number thus: FC 185.

Sectional Charts.—Scale 1:500,000 (7.89 statute miles to the inch). Each standard sectional chart covers an area within 2° of latitude and 6° of longitude, with a marginal overlap on adjoining charts. These charts are to be used for general references, but are intended primarily for piloting (visual flying, or landmark flying). Every effort is made, therefore, to include the outstanding landmarks in each locality. Eighty-seven charts cover the United States in sheets about 20 by 42 inches, folding to an average size of 7½ by 12 inches. Price, 25 cents each. Sectional charts are designated by name thus: DES MOINES.

Local Charts.*—Scale 1:250,000 (3.95 statute miles to the inch). This series is planned to show greater landmark detail as terminals in highly developed industrial centers are approached. Twenty charts of the series have been published. Price, 25 cents each. Designated thus: MIAMI LOCAL.

Instrument Approach and Landing Charts.—Approach charts are at the scale of 1:250,000 and the landing charts are usually 1,316,800. They are printed back to back on 8 by 10½ inch sheets. They are designed for use with the manuals with Radio Facility Charts. Intended for use under Instrument Flight conditions, they are also used as familiarisation and vicinity charts. More than 475 charts are available. Price, 5 cents each or $2.00 per year by subscription. They may be had one at 5 cents or 5 cents per chart for one year when ordered in quantities of 20 or more of each chart. Designated thus: AL-289.

Instrument Landing System Charts.—Approach chart is 1:250,000 with landing chart either 1:75,000 or 1:50,000. The charts are similar to Instrument Approach and Landing Charts in basic layout, but are printed back to back on black and red color and show very little topographic information. Price, 5 cents each, or complete set (now 75) available on subscription basis, at $6.00 annually; also issued on subscription at 5 cents each in quantities of 50 or more of each chart selected. Designated thus: ILS-218.

*See diagrams.
Obstruction Plans.—The plans are on sheets of various sizes. They show selected aerodrome information and indicate all obstructions which extend above a 40 to 1 glide angle to the ends of runways. Price, 40 cents each. Designated thus: OP 655.

Radio Facility Charts.*—The radio facility series of the United States is comprised of 64 charts 8 by 10½ inches. Radio facilities, airways, important aerodromes, and a limited amount of other aeronautical information are shown. Topographic information is limited to international boundaries and shore lines of larger bodies of water. Price, 5 cents each or $4.50 per year on subscription. They may also be had on an annual basis of 10 cents per chart for one year when ordered in quantities of 20 or more for each chart. Designated thus: RF 21.

The radio facility series of Alaska contains 14 charts similar to those of the United States in size, style and content. Priced the same as those of the United States except that annual subscription rate is $1.50. Designated thus: RF 106.

INTERNATIONAL CIVIL AVIATION ORGANIZATION

The aeronautical charts published by the U.S. Coast and Geodetic Survey comply, except for minor deviations, with the Standards and Recommended Practices for Aeronautical Charts established by the International Civil Aviation Organization.

### AUXILIARY MAPS AND CHARTS

#### Outline Maps

<table>
<thead>
<tr>
<th>No.</th>
<th>Price</th>
<th>Title</th>
<th>Scale</th>
<th>Size of border (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3060</td>
<td>.30</td>
<td>U. S. Outline Map, Lambert Conformal Conic Projection</td>
<td>1:5,000,000</td>
<td>26x40</td>
</tr>
<tr>
<td>3068</td>
<td>.20</td>
<td>U. S. Outline Map, Lambert Zenithal Equal Area Projection</td>
<td>1:5,750,000</td>
<td>20x27</td>
</tr>
<tr>
<td>3069</td>
<td>.25</td>
<td>Alaska Outline Map, Lambert Conformal Conic Projection</td>
<td>1:5,000,000</td>
<td>18x37</td>
</tr>
<tr>
<td>3070</td>
<td>.76</td>
<td>North Atlantic Ocean, with Eastern North America and Europe, Lambert Projection</td>
<td>1:10,000,000</td>
<td>24x46</td>
</tr>
<tr>
<td>3074</td>
<td>.40</td>
<td>Great Circle, United States, Gnomonic Projection</td>
<td>1:5,094,000</td>
<td>27x41</td>
</tr>
<tr>
<td>3077a</td>
<td>.20</td>
<td>Base Map, United States</td>
<td>1:7,000,000</td>
<td>22x28</td>
</tr>
<tr>
<td>3078</td>
<td>.60</td>
<td>U. S. Outline Map (in two parts), Lambert Conformal Conic Projection</td>
<td>1:3,000,000</td>
<td>44x66</td>
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<td>3079</td>
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<td>U. S. Drainage Map, Murdoch’s projection on intersecting cone</td>
<td>1:7,000,000</td>
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<tr>
<td>3080</td>
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<td>North Pacific Ocean, Transverse Polyconic Projection</td>
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<td>Outline Map of the Philippine Islands, Polyconic Projection</td>
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<td>Philippine Islands Base Map, Mercator Projection</td>
<td>1:5,000,000</td>
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<td>Outline Map, United States</td>
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<td>U. S. Outline Map, Murdoch’s projection on intersecting cone</td>
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<td>3086</td>
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<td>U. S. Outline Map, Murdoch’s projection on intersecting cone</td>
<td>1:7,700,000</td>
<td>16x26</td>
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<td>3090</td>
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<td>World, Mercator Projection</td>
<td>1:38,000,000</td>
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<tr>
<td>3060a</td>
<td>.40</td>
<td>Outline Map of United States showing principal cities, airports and sectional chart index</td>
<td>1:5,000,000</td>
<td>26x40</td>
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<tr>
<td>3060b</td>
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<td>United States Base Map in gradient tints</td>
<td>1:5,000,000</td>
<td>27x40</td>
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<tr>
<td>3060c</td>
<td>1.00</td>
<td>U. S. Base Map in gradient tints (two parts)</td>
<td>1:3,000,000</td>
<td>44x33</td>
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<td>3064</td>
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<td>Airline Distances Map, U. S.</td>
<td>1:5,000,000</td>
<td>25x38</td>
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<tr>
<td>3074a</td>
<td>.40</td>
<td>Same as 3074 with addition of selected airports</td>
<td>1:6,094,000</td>
<td>27x41</td>
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<tr>
<td>3092</td>
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<td>International air routes of the World; shows great circle distances between principal points on air routes (4 colors)</td>
<td>1:40,000,000</td>
<td>23x45</td>
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<tr>
<td>3093</td>
<td>.25</td>
<td>Outline maps for construction of a model of the World; produces a “Lambert globe” 9 inches in diameter</td>
<td>1:55,803,788</td>
<td>25x29</td>
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<td>3062</td>
<td>.10</td>
<td>Equatorial Gnomonic Projection</td>
<td>1:50,000,000</td>
<td>19x19</td>
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<tr>
<td>3063</td>
<td>.10</td>
<td>Gnomonic Projection, Polar-Equatorial</td>
<td>1:50,000,000</td>
<td>19x19</td>
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<td>3065</td>
<td>.40</td>
<td>Equatorial Azimuthal Equidistant Projection</td>
<td>1:32,670,185</td>
<td>32x34</td>
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<tr>
<td>3099</td>
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<td>Aitoff’s Equal Area Projection of the Sphere</td>
<td>1:17,000,000</td>
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#### Educational

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<tr>
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<tr>
<td>3500</td>
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<td>Des Moines, Portion of the Des Moines Sectional Chart.</td>
<td>1:25,000,000</td>
<td>35x44</td>
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<tr>
<td></td>
<td>.25</td>
<td>Seattle, showing two imprints of each portion of Seattle Sectional, 1M, 25DF and 3090B.</td>
<td>1:40,000,000</td>
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#### Isogonic Charts

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<td>2117</td>
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<td>Caribbean Sea, Isogonic chart for 1947, including isoporic lines</td>
<td>1:5,000,000</td>
<td>26x43</td>
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<tr>
<td>3069b</td>
<td>.40</td>
<td>Lines of Equal Magnetic Declination and Equal Annual change in Alaska for 1940</td>
<td>1:5,000,000</td>
<td>21x40</td>
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<tr>
<td>3077</td>
<td>.40</td>
<td>United States, Isogonic Chart for 1945, including isoporic lines</td>
<td>1:5,000,000</td>
<td>27x45</td>
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#### Charts on Azimuthal Equidistant Projection

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<tbody>
<tr>
<td>3040</td>
<td>.40</td>
<td>Shemya Island, Alaska</td>
<td>1:30,000,000</td>
<td>31x31</td>
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<tr>
<td>3041</td>
<td>.40</td>
<td>Miami, Florida</td>
<td>1:30,000,000</td>
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<td>New York City</td>
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Additional information concerning publications and activities of the U. S. Coast and Geodetic Survey may be obtained by addressing the Director, U.S. Coast and Geodetic Survey, Washington 25, D. C., the District Offices, the Distribution Centers, or the Information Centers.

### U. S. Coast and Geodetic Survey District Offices

<table>
<thead>
<tr>
<th>District</th>
<th>Office Address</th>
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<tbody>
<tr>
<td>Northeastern District</td>
<td>Boston 9, Mass. Tenth Floor, Customhouse State Street</td>
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<tr>
<td>Eastern District</td>
<td>New York 7, N. Y. Federal Office Building 90 Church Street</td>
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<tr>
<td>Southeastern District</td>
<td>Norfolk 10, Va. Post Office Building</td>
</tr>
<tr>
<td>Southern District</td>
<td>New Orleans 16, La. Customhouse 429 Canal Street</td>
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<tr>
<td>Southwestern District</td>
<td>Los Angeles 12, Calif. Federal Bldg.</td>
</tr>
<tr>
<td>Western District</td>
<td>San Francisco 26, Calif. Customhouse</td>
</tr>
<tr>
<td>Mid-Western District</td>
<td>Portland 4, Ore. Panama Building 534 S. W. Third Avenue</td>
</tr>
<tr>
<td>Northwestern District</td>
<td>Seattle 4, Washington Federal Office Building</td>
</tr>
<tr>
<td>Pacific District</td>
<td>Honolulu, T. H. Federal Office Building</td>
</tr>
<tr>
<td>Philippine Islands</td>
<td>Manila, P. I. Director, Coast Surveys Philippine Bureau, U. S. C. &amp; G. Survey O’Racca Building</td>
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### U. S. Coast and Geodetic Survey Distribution Centers

<table>
<thead>
<tr>
<th>Office in Charge of Chart Distribution</th>
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<tbody>
<tr>
<td>U. S. Coast and Geodetic Survey</td>
</tr>
<tr>
<td>Federal Office Bldg.</td>
</tr>
<tr>
<td>90 Church St.</td>
</tr>
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<td>New York 7, N. Y.</td>
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<tr>
<td>U. S. Coast and Geodetic Survey</td>
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<tr>
<td>518 East 32nd St.</td>
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<td>Baltimore 18, Maryland</td>
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<tr>
<td>Chicago International Airport</td>
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<tr>
<td>Park Ridge, Illinois</td>
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*Information only - charts not available for sale
PLANNING CHARTS

CHART SPECIFICATIONS:
Lambert Conformal Conic Projection.
Scale 1:5,000,000. (1 inch = 80 Statute Miles approx.)
Chart Size: 24 x 40 inches (approx.)
Price: 40 cents each

Designed for aeronautical planning purposes. Show generalized topography. Aeronautical data includes airways, radio ranges (3069a only), principle aerodromes and isogonic lines.
AIRCRAFT POSITION CHARTS

CHART SPECIFICATIONS:
AIRCRAFT POSITION CHARTS
Mercator Projection
Scale 1:5,000,000 (1 inch = 50 statute miles approx.)
Chart size: 27 by 42 inches
Price 10 cents each.

Designed to be used with radio facility manuals for position plotting. Outline chart showing country names, important cities, and identification and location of navigation facilities.
DIRECTION FINDING CHARTS - UNITED STATES

CHART SPECIFICATIONS:
Lambert Conformal Conic Projection
Scale, 1:2,000,000 (1 inch = 32 statute miles - approx.)
Chart Size: 26 by 34 inches (average)
Contour interval: 1000 and 2000 ft.
Price: 40 cents each. Designated thus: 24 DF

Designed for plotting radio bearings. Relief shown by contours and gradient tints. Aeronautical data includes selected aerodromes, isogonic lines, and magnetic compass roses centered on radio facilities.
DIRECTION FINDING CHARTS - ALASKA

CHART SPECIFICATIONS:
Lambert Conformal Conic Projection
Scale 1:3,000,000
Chart Size: 30 by 36 inches (average)
Contour Interval: 5000 ft.
Price: 40 cents each
Designated thus: 2 DF

Designed for plotting radio bearings. Relief shown by contours and gradient tints. Aeronautical data includes selected aerodromes, isogonic lines, and magnetic compass roses centered on radio facilities.
ROUTE CHARTS

CHART SPECIFICATIONS:
ROUTE CHARTS
C Nelique Mercator Projection
Scale 1:2,000,000
(1 inch = 32 statute miles approx.)
Chart size: varied
Price 25 cents each

Designed for long range flights at high altitudes. Show spot elevations, gradient tints, selected aerodromes and major radio data.
WORLD AERONAUTICAL CHARTS - UNITED STATES

CHART SPECIFICATIONS:
Lambert Conformal Conic Projection
Scale 1:1,000,000 (1 inch = 10 statute miles - approx.)
Chart Size: 22 by 29 inches
Contour Interval: 1000 ft.

Price: 25 cents each. Designated thus: WAC 522

For International Civil Aviation Organization (ICAO) number add 2000 to chart number.

Designed for long flights and high speed. Aeronautical information includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses. Topography complete with relief portrayed by contours and gradient tints.
WORLD AERONAUTICAL CHARTS - ALASKA

CHART SPECIFICATIONS:
Lambert Conformal Conic Projection
Scale 1:1,000,000 (1 inch = 16 Statute Miles approx.)
Chart Size: 22 by 29 inches
Contour Interval: 1000 ft.
Price 25 cents each. Designated thus: WAC 118

For International Civil Aviation Organization (ICAO) number add 2000 to chart number.

Designed for long flights and high speed. Aeronautical information includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses. Topography complete with relief portrayed by contours and gradient tints.
FLIGHT CHARTS - UNITED STATES

Designed for long flights and high speed. Chart area, limited to established routes, usually extends from air terminal to air terminal. Topography sufficient for contact flight yet aeronautical information is complete enough for radio navigation. Relief portrayed by contours and gradient tints. Aeronautical data includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses.

Price 25 cents each. Designated thus: FC 219

Chart Specifications:
Lambert Conformal Conic Projection
Scale, 1,100,000 (1 inch = 16 statute miles - approx.)
Chart size: varied
Contour interval: 1000 ft.
CHART SPECIFICATIONS:
- Lambert Conformal Conic Projection
- Scale: 1:1,000,000 (1 inch = 16 Statute Miles - approx.)
- Chart Size: Varied
- Contour Interval: 1000 ft.
- Price: 25 cents each. Designated thus: FC 1

Designed for long flights at high speed. Chart area limited to established routes, usually extends from air terminal to air terminal. Topography sufficient for contact flight yet aeronautical information is complete enough for radio navigation. Relief shown by contours and gradient tints. Aeronautical information includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses.
SECTIONAL CHARTS

- Lambert Conformal Conic Projection
- Scale 1:500,000 (1 inch = 8 statute miles approx.)
- Chart size: 20 by 42 inches (approx.)
- Contour interval: 1000 ft.
- Price 25 cents each. Designated thus: ELKO

* Solid dot represents city for which chart is named.

CHART SPECIFICATIONS:

- Chart: Sectional Charts
- Size: 20 by 42 inches (approx.)
- Contour interval: 1000 ft.
- Price: 25 cents each

Designed for contact flying. Show detailed topography including landmarks. Relief portrayed by contours and gradient tints. Aeronautical data includes airways, radio and aircraft facilities, visual aids and isogonic lines.
LOCAL CHARTS

CHART SPECIFICATIONS:
Lambert Conformal Conic Projection
Scale 1:250,000 (1 inch = 4 statute miles - approx.)
Chart size: 22 by 29 inches
Contour interval varied
Price 25 cents each. Designated thus: SAN DIEGO LOCAL

Designed for visual flying in the vicinity of prominent aerodromes of large cities. Intended as a supplemental chart to the smaller scale series. Topographic and aeronautical information similar to, but in greater detail than, smaller scale charts. Sizable aerodromes are shown by runway pattern.
### ALABAMA

<table>
<thead>
<tr>
<th>NO.</th>
<th>CITY OR TOWN</th>
<th>AIRPORT</th>
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<tbody>
<tr>
<td>AL 831</td>
<td>Bartletts Ferry</td>
<td>Bartletts Ferry Reservoir</td>
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<td>AL 839</td>
<td>Birmingham</td>
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<td>AL 122</td>
<td>Dothan</td>
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<td>AL 267</td>
<td>Mobile</td>
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<td>Craig Field</td>
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<td>Williams A.F.B.</td>
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<td>AZ 409</td>
<td>Glendale</td>
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<td>AZ 546</td>
<td>Prescott</td>
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<td>Roosevelt Reservoir</td>
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<td>AZ 854</td>
<td>San Carlos Reservoir</td>
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<td>AZ 429</td>
<td>Tucson</td>
<td>Davis-Monthan A.F.B.</td>
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<td>AZ 463</td>
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<td>AR 408</td>
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<td>AR 420</td>
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<td>CT 110</td>
<td>Bridgeport</td>
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<td>CT 494</td>
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### DISTRICT OF COLUMBIA

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<td>DC 599</td>
<td>Washington</td>
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### FLORIDA

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<td>NAS Whiting</td>
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### GEORGIA

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**NEW YORK**

**NO. CITY OR TOWN**

**AIRPORT**

**NO. CITY OR TOWN**

**AIRPORT**

**RUDELAND**

181 Providence Theodore Francis Greene Airport

183 Quonset Point NAS Quonset Point

**SOUTH CAROLINA**

176 Charleston Charleston Airport

189 Columbia Columbia Airport

145 Florence Florence Airport

179 Greenville Greenville Airport

180 Greenville Greenville Airport

184 Greenwood Reservoir Greenwood Reservoir Anchorage

401 Spartanburg Spartanburg Airport

500 Sumter Shaw A.F.B.

**SOUTH DAKOTA**

463 Aberdeen Aberdeen Municipal Airport

324 Pierre Pierre Airport

343 Rapid City Rapid City Field

396 Sioux Falls Sioux Falls Airport

444 Watertown Watertown Municipal Airport

**TENNESSEE**

438 Bristol Tri-City Airport

79 Chattanooga Chattanooga Airport (Lovell Field)

265 Jacks Creek Jacks Creek Int. Field

218 Knoxville Knoxville Municipal Airport

353 Memphis Memphis Airport

382 Nashville Nashville Field

398 Smithville Smithville Int. Field

**TEXAS**

1 Abilene Abilene Municipal Airport No. 2

481 Alice Alice Airport

19 Amarillo English Field

30 Austin Robert Mueller Airport

355 Austin Bergstrom A.F.B.

42 Beaumont Beaumont Airport

501 Beaumont Jefferson County Airport

47 Big Spring Big Spring Airport

61 Brownsville Rio Grande Valley Int. Airport

222 Burnet Burnet Municipal Airport

97 Corpus Christi Corpus Christi Municipal Airport

98 Corpus Christi Corpus Christi Municipal Airport

105 Dallas Dallas Municipal Airport

106 Dallas Dallas Municipal Airport

133 El Paso El Paso Municipal Airport

134 El Paso El Paso Municipal Airport

836 El Paso El Paso Municipal Airport

315 Fort Phantom Hill Res. Anchorage

169 Fort Worth Fort Worth Municipal Airport

159 Fort Worth Fort Worth Municipal Airport

845 Fort Worth Fort Worth Municipal Airport

16 Fort Worth Fort Worth Municipal Airport

164 Galveston Galveston Airport and Anchorage

197 Houston Ellington A.F.B.

198 Houston Houston Airport

256 Laredo Laredo Airport

340 Lubbock Lubbock Municipal Airport

380 Medina Lake Medina Lake Anchorage

308 Midland Midland Air Terminal

509 Palacios Palacios Airport

616 Red Bluff Reservoir Red Bluff Reservoir Anchorage

564 Salt Flat Salt Flat Municipal Airport

607 San Angelo San Angelo-Midland Int. Field

588 San Angelo Goodfellow A.F.B.

341 San Antonio Randolph A.F.B.

540 San Antonio San Antonio Int. Airport (Alamo Field)

474 San Antonio Brooks A.F.B.

871 San Antonio Kelly A.F.B.

622 Tyler Pounds Field

459 Waco Waco Municipal Airport

579 Waco Waco A.F.B.

464 Wichita Falls Wichita Falls (Mun.) Municipal Airport

481 Wink Wink Airport

**UTAH**

113 Delta Delta Municipal Airport

197 Enterprise Enterprise Int. Field

498 Fairfield Fairfield Municipal Airport

242 Logan Logan Int. Field

250 Milford Milford Municipal Airport

246 Ogden Ogden Municipal Airport

577 Salt Lake City Salt Lake Municipal Airport

445 Wendover Wendover Municipal Airport
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**TERRITORY OF HAWAII**

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<td>Barking Sands A.F.B.</td>
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## AIRPORT OBSTRUCTION PLANS
U. S. Coast and Geodetic Survey

### DESIGNATE THUS: OP 50, WHEN ORDERING

Price, 40 cents each. A discount of 33⅓% is allowed for one order in one shipment to one address of $10 or more. (For gross orders $6.67 to $10 a charge of $6.67 is made.)

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| OP 331 | Phoenix | Luke Field |
| OP 222 | Phoenix | Sky Harbor Airport |
| OP 439 | Tucson | Davis-Monthan A.F.B. |
| OP 462 | Winslow | Winslow Airport |

| ARKANSAS |
| OP 637 | El Dorado | El Dorado-Goodwin Airport |
| OP 621 | Fort Smith | Fort Smith Airport |
| OP 223 | Little Rock | Adams Field |
| OP 490 | Texarkana | Texarkana (Municipal) Airport |

| CALIFORNIA |
| OP 36 | Bakersfield | Bakersfield-Kern County Airport |
| OP 97 | Burbank | Lockheed Air Terminal |
| OP 615 | Livermore | Livermore Sky Ranch Airport |
| OP 236 | Long Beach | Long Beach (Daugherty) Airport |
| OP 237 | Los Angeles | Los Angeles (Municipal) Airport |
| OP 543 | Modesto | Modesto Airport |
| OP 271 | Monterey | Monterey Peninsula Airport |
| OP 419 | Mountain View | Moffett Field, N.A.S. |
| OP 543 | Needle | Needle Airport |
| OP 534 | Oakland | Oakland Airport |
| OP 510 | Palmdale | Palmdale Airport |
| OP 545 | Palm Springs | Palm Springs Airport |
| OP 544 | Red Bluff | Bidwell Airport |
| OP 539 | Sacramento | Sacramento Airport |
| OP 583 | Salinas | Salinas Airport |
| OP 273 | San Diego | Lindbergh Field |
| OP 375 | San Francisco | San Francisco Airport |
| OP 273 | Santa Barbara | Santa Barbara Airport |
| OP 497 | Stockton | Stockton Field |
| OP 383 | Visalia | Visalia Airport |

| COLORADO |
| OP 18 | Alamosa | Alamosa Municipal Airport |
| OP 43 | Canon City | Freemont County Airport |
| OP 57 | Colorado Springs | Colorado Springs Municipal Airport |
| OP 114 | Denver | Stapleton Field |
| OP 634 | Grand Junction | Walker Field |
| OP 555 | Greeley | Greeley F. C. Craker Field |
| OP 211 | La Junta | La Junta Municipal Airport |
| OP 658 | Montrose | Montrose Airport |
| OP 338 | Pueblo | Pueblo Airport |

| CONNECTICUT |
| OP 611 | Bridgeport | Bridgeport Airport |
| OP 198 | Hartford | Brainard Field |
| OP 460 | Windsor Locks | Bradley Field |

| DISTRICT OF COLUMBIA |
| OP 443 | Washington | Washington National Airport |

| FLORIDA |
| OP 119 | Daytona Beach | Daytona Beach Airport |
| OP 154 | Fort Meyers | Page Field |
| OP 207 | Jacksonville | Jacksonville Airport No. 1 |
| OP 606 | Key West | Meacham Airport |
| OP 624 | Lakeland | Dade Field |
| OP 368 | Marion | Marion Airport |
| OP 587 | Miami | Miami International Airport |
| OP 155 | Orlando | Orlando AFB (Municipal, No. 1) |
| OP 318 | Pensacola | Pensacola Municipal Airport |
| OP 613 | St. Petersburg | Albert Whitman Airport |
| OP 825 | St. Petersburg | Pinellas County International Airport |

| GEORGIA |
| OP 5 | Albany | Albany Airport |
| OP 29 | Atlanta | Atlanta Airport |
| OP 28 | Augusta | Daniel Field |
| OP 158 | Brunswick | Malcolm McKinnon Airport |
| OP 636 | Columbus | Macon County Airport |
| OP 344 | Macon | Herbert Smart Airport |
| OP 331 | Savannah | Hunter Field |

| IDAHO |
| OP 599 | Idaho Falls | Idaho Falls Municipal Airport |
| OP 398 | Pocatello | Pocatello Airport |

| ILLINOIS |
| OP 81 | Chicago | Chicago Airport |
| OP 269 | Moline | Moline Airport |
| OP 513 | Evanston | Evanston Airfield |
| OP 200 | Fort Wayne | Fort Wayne Field |
| OP 203 | Indianapolis | Indianapolis Municipal Airport |
| OP 399 | South Bend | South Bend Field |
| OP 608 | Terre Haute | Hulman Field |

| IOWA |
| OP 117 | Des Moines | Iowa City Municipal Airport |

| KANSAS |
| OP 200 | Hutchinson | Hutchinson Municipal Airport |
| OP 211 | Kansas City | Kansas City Airport |
| OP 629 | Topeka | Topeka Field |
| OP 463 | Wichita | Wichita Airport |

| KENTUCKY |
| OP 666 | Covington | Greater Cincinnati Airport |
| OP 691 | Lexington | Blue Grass Airport |
| OP 238 | Louisville | Bowman Field |
| OP 629 | Paducah | Paducah McCracken Co. Airport |

| LOUISIANA |
| OP 13 | Alexandria | Alexandria Airfield |
| OP 40 | Baton Rouge | Harding Field |
| OP 222 | Lake Charles | Lake Charles Municipal Airport |
| OP 288 | New Orleans | New Orleans Airports |
| OP 607 | New Orleans | Mississippi International Airport |
| OP 392 | Shreveport | Shreveport Airport |

| MAINE |
| OP 30 | Bangor | Bowdoin A.F.B. |
| OP 213 | Portland | Portland Airport |
| OP 331 | Presque Isle | Presque Isle A.F.B. |

| MARYLAND |
| OP 37 | Baltimore | Baltimore Municipal Airport |

| MASSACHUSETTS |
| OP 58 | Boston | Logan Airport |
| OP 447 | Chicopee Falls | Westover A.F.B. |
| OP 446 | Westfield | Barnes Municipal Airport |

| MICHIGAN |
| OP 118 | Detroit | Detroit City Airport |
| OP 611 | Flint | Bishop Airport |
| OP 174 | Grand Rapids | Kent County Airport |
| OP 224 | Lansing | Capital City Airport |
| OP 278 | Muskegon | Muskegon County Airport |
| OP 641 | Pellston | Emmet County Airport |
| OP 425 | Traverse City | Traverse City Municipal Airport |

<p>| WYOMING |
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| OP 469 | Rawlins | Rawlins Municipal Airport |
| OP 458 | Casper | Casper Municipal Airport |
| OP 467 | Gillette | Gillette Municipal Airport |
| OP 480 | Jackson | Jackson Municipal Airport |
| OP 465 | Laramie | Laramie Municipal Airport |
| OP 466 | Riverton | Riverton Municipal Airport |
| OP 471 | Rock Springs | Rock Springs Municipal Airport |</p>
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RADIO FACILITY CHARTS - UNITED STATES

Designed for radio navigation. Show shorelines of major water areas, international boundaries and complete information for radio navigation. Detailed information on radio facilities tabulated on back of each chart.
Charts listed in Part 2 of this catalog are sold subject to rules determined by the Aeronautical Chart Service of the Department of the Air Force or the Hydrographic Office of the Department of the Navy. All requests for USAF charts from other than United States nationals should be forwarded directly to the U. S. Coast and Geodetic Survey, Washington 25, D. C., for handling.

**USAF Aeronautical Planning Charts.**—Scale, 1:5,000,000. The forty-three charts give world coverage and contain drainage, relief and culture consisting of international boundaries, cities, railroads and highways, with aeronautical overprint of isogonic lines and important aerodromes. Average chart size is 32 by 47 inches. Price, 40 cents each. Designated thus: AP-17.

**USAF Long Range Air Navigation Charts.**—Scale, 1:3,000,000. The topographic information shows drainage, relief, cities and railroads. The aeronautical data includes principal aerodromes, beacons, radio facilities and isogonic lines. The seventy-eight charts are approximately 40 by 52 inches. In addition to the regular charts of world coverage, special charts are published (indicated by hatched lines) covering areas of active air routes; these special charts eliminate the use of several standard charts on one flight, thus enabling the navigator to utilize all available desk space. Price, 40 cents each. Designated thus: LR-21 and LR-25-S.

**USAF Navigational Flight Charts.**—Strip charts at scales of 1:3,000,000, 1:4,000,000, and 1:5,000,000. The code identification is NF. Price, 40 cents each. Designated thus: NF-2.

**USAF Special Navigation Charts.**—Large sheet, small scale charts for long range navigation. These charts show essential hydrographic and cultural features except that no highways are shown. The overprint shows all important aeronautical facilities. There are ten charts published for areas of frequent aerial operations, Scale 1:5,000,000. Price, 40 cents each. Designated thus: NS-140.

**USAF Special Plotting and Special Aeronautical Charts.**—Large scale and large sheet charts suitable for both plotting and pilotage navigation in areas of frequent aerial operations. Identified by series as PS or AS. Price, 40 cents each. Designated thus: PS-502 or AS-114.

**USAF Air Navigation Charts.**—Large scale plotting charts for dead-reckoning navigation. They show sufficient topographic detail for visual flight. Price, 40 cents each. Designated thus: AN-136.

**USAF World Aeronautical Charts.**—Scale, description, size, price and identification exactly the same as for World Aeronautical Charts, U. S. and Alaska. Universal Water Charts are published for use as a plotting sheet in areas comprised of water only and can be used in any longitude of the specified latitude. Each of these charts covers the water area in a band of 4 degrees of latitude, for example UWC 32/36 indicates the band from latitude 32° to 36°.

**USAF Flight Charts.**—Scale, description, price and identification the same as for those of U. S. and Alaska.

**Foreign Instrument Approach and Landing Charts.**—Similar in specifications to those of the United States. Price, 5 cents each. See following paragraph for information on Pilot’s Handbooks and revision service. Designated thus: AL-1329.

**USAF Pilot’s Handbooks (Foreign).**—The handbooks are loose-leaf and maintained by issue of supplemental or revised sheets as necessary. They give information on routes, facilities and procedures and also include approach and landing charts. Price, $5.00 per handbook, with binder $1.00 extra. Annual revision service $5.00 per book. Ordered by region thus: Pilot’s Handbook - Europe.

**Naval Aviation Charts, V30.**—Scale, 1:2,188,800. Show drainage, contours and cities. Isogonic lines, compass roses, radio facilities and aerodromes make up aeronautical information. Approximate size is 35 by 54 inches. Price, 50 cents each. Designated thus: No. V30-34.

**Naval Aviation Charts, V70.**—Scale, 1:5,107,200. Base information similar to V30 series but aeronautical data shows only isogonic lines, compass roses and important aerodromes. Approximate size 33 by 52 inches. Price, 50 cents each. Designated thus: No. V70-9.

* See diagrams.
Designed for radio navigation. Show shorelines of major water areas, international boundaries and complete information for radio navigation. Detailed information on radio facilities tabulated on back of each chart.
USAF AND NAVY AERONAUTICAL CHARTS DISTRIBUTED BY THE COAST AND GEODETIC SURVEY

Charts listed in Part 2 of this catalog are sold subject to rules determined by the Aeronautical Chart Service of the Department of the Air Force or the Hydrographic Office of the Department of the Navy. All requests for USAF charts from other than United States nationals should be forwarded directly to the U. S. Coast and Geodetic Survey, Washington 25, D. C., for handling.

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USAF Navigational Flight Charts.*—Strip charts at scales of 1:3,000,000, 1:4,000,000, and 1:5,000,000. The code identification is NF. Price, 40 cents each. Designated thus: NF-2.

USAF Special Navigation Charts.*—Large sheet, small scale charts for long range navigation. These charts show essential hydrographic and cultural features except that no highways are shown. The overprint shows all important aeronautical facilities. There are ten charts published for areas of frequent aerial operations, Scale 1:5,000,000. Price, 40 cents each. Designated thus: NS-140.

USAF Special Plotting and Special Aeronautical Charts.*—Large scale and large sheet charts suitable for both plotting and pilotage navigation in areas of frequent aerial operations. Identified by series as PS or AS. Price, 40 cents each. Designated thus: PS-502 or AS-114.


USAF World Aeronautical Charts.*—Scale, description, size, price and identification exactly the same as for World Aeronautical Charts, U. S. and Alaska. Universal Water Charts are published for use as a plotting sheet in areas comprised of water only and can be used in any longitude of the specified latitude. Each of these charts covers the water area in a band of 4 degrees of latitude, for example UWC 32/36 indicates the band from latitude 32° to 36°.

USAF Flight Charts.*—Scale, description, price and identification the same as for those of U. S. and Alaska.

Foreign Instrument Approach and Landing Charts.—Similar in specifications to those of the United States. Price, 5 cents each. See following paragraph for information on Pilot’s Handbooks and revision service. Designated thus: AL-1320.

USAF Pilot’s Handbooks (Foreign).*—The handbooks are loose-leaf and maintained by issue of supplemental or revised sheets as necessary. They give information on routes, facilities and procedures and also include approach and landing charts. Price, $5.00 per handbook, with binder $1.00 extra. Annual revision service $5.00 per book. Ordered by region thus: Pilot’s Handbook - Europe.

Naval Aviation Charts, V30.*—Scale, 1:2,188,800. Show drainage, contours and cities. Isogonic lines, compass roses, radio facilities and aerodromes make up aeronautical information. Approximate size is 35 by 54 inches. Price, 50 cents each. Designated thus: No. V30-34.

Naval Aviation Charts, V70.*—Scale, 1:5,107,200. Basic information similar to V30 series but aeronautical data shows only isogonic lines, compass roses and important aerodromes. Approximate size 33 by 52 inches. Price, 50 cents each. Designated thus: No. V70-2.

* See diagrams.
CHART SPECIFICATIONS:
Lambert Conformal Conic Projection, Lat 75°N to 75°S
Stereographic Polar Projection Lat 75° to 90°
Scale, 1:5,000,000 (1 inch=80 statute miles-approx.)
Chart size: 30 by 45 inches (approx.)
Price: 40 cents each Designated thru: AP 17

Designed for aeronautical planning purposes. Show generalized topography. Aeronautical data includes airways, radio ranges, principle aerodromes and isogonic lines.
USAF LONG RANGE AIR NAVIGATION CHARTS

CHART SPECIFICATIONS:
Mercator Projection, Lat 60° N to 60° S
Lambert Conformal Conic Projection, Lat 60° to 90°
Stereographic Projection, Lat 80° to 90°
Scale: 1:3,000,000 (1 inch = 48 statute miles, approx.)
Chart size: 30 by 40 inches (approx.)
Price: 40 cents each (except LR 21)

Special Charts emphasized by hatching provide coverage for areas of active air routes.
Charts LR 10, LR 20, and LR 22-5 are also published with Loran Curves.

Designed for long flights by navigation but sufficient topographic information is shown for visual checking of position.
Base shows drainage, relief (with gradient tints) and culture including cities and railroads.
Aeronautical data includes main aerodromes, beacons, radio facilities (without frequencies), isogonic lines and compass roses.
CHART SPECIFICATIONS:
Mercator Projection
Scale, 1:3,000,000 or smaller
Chart size: varied
Price: 40 cents each Designated thus: NF 4
Charts NF 2, NF 3, NF 4 and NF 5 are also published with Loran C courses.

USAF NAVIGATIONAL FLIGHT CHARTS

Designed for navigational plotting in flight. Not suitable for visual pilotage navigation.
CHART SPECIFICATIONS:
Mercator Projection
Scale: 1:5,000,000 (1 inch = 80 Statute Miles-approx.)
Chart size: varied
Price: 40 cents each
Designated thus: NS-102

Designed as large sheet, small scale charts suitable for long range navigation over areas of frequent aerial operations.
CHART SPECIFICATIONS:
SPECIAL AERONAUTICAL CHARTS
Lambert Conformal Conic Projection
Scale, 1:2,000,000 and larger
Chart size: varied
SPECIAL PLOTTING CHARTS
Mercator Projection
Scale, 1:3,000,000
Chart size: varied

Price: 40 cents each
Designated thus: PS 501 or AS 147

Charts PS 501, PS 502, and PS 503 are also published with Loran Curves.

Designed as relatively large scale charts suitable for both plotting and visual pilotage navigation.
Universal Water Charts (Scale 1:1,000,000, size 22 x 29 inches) covering 1° of latitude have been published for use in place of the World Aeronautical Charts in water areas. The user must insert the appropriate longitude values for the particular area desired. Water tint is printed within the normal geographical limits and the chart is designed for use in both north and south latitudes. Charts must be ordered by name and latitude thus: Water-48.

Map specifications:
- Mercator Projection Lat. 7°N to 48°S
- Lambert Conformal Conic Projection Lat. 48° to 72°S
- Stereographic Projection 72° to 90°S
- Scale: 1:1,000,000 (1 inch = 1 statute mile, approx.)
- Chart Size: 22 x 29 inches (approx.)
- Contour Interval: 1000 feet where shown.
- Price: 25 cents each.
- Designed thus: WAC 344

Designed for long flights at high speed. Aeronautical information includes airways, radio and visual aids, aircraft facilities, magnetic lines and compass roses. Topography complete with relief portrayed by contours and gradient tints.
CHART SPECIFICATIONS:

Mercator Projection Lat 0° to 4° N
Lambert Conformal Conic Projection Lat 4° to 72°
Scale 1:3,000,000 (1 inch = 50 statute miles - approx.)
Chart size 22 by 29 inches (approx)
Contour Interval: 1000 feet where shown.
Price 25 cents each
Designated thus: WAC 304

UNIVERSAL WATER CHARTS

Universal Water Charts (Scale 1:3,000,000; size 22 x 29 inches) covering 4° of latitude have been published for use in place of the world aeronautical charts in water areas. The user must insert the appropriate longitude values for the particular area required. Water tint is printed within the normal geographical limits and the chart is designed for use in both north and south latitudes. Charts must be ordered by name and latitude thus: Water-48 / S2

Designed for long flights at high speed. Aeronautical information includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses. Topography complete with relief portrayed by contours and gradient tints.
Antarctic Region

Chart Specifications:
Lambert Conformal Conic Projection Lat. 4° to 72°
Sterographic Polar Projection 72° to 90°
Scale: 1:1,000,000 (1 inch = 16 statute miles - approx.)
Chart size: 22 by 29 inches - (approx.)
Contour interval: 1000 feet where shown.
Price 25 cents each. Designated thus: WAC 85

Universal Water Charts
Universal Water Charts (Scale 1:1,000,000; size 22 x 29 inches) covering 4° of latitude have been published for use in place of the World Aeronautical Charts in water areas. The user must insert the appropriate longitude values for the particular area desired. Water tint is printed within the normal geographical limits and the chart is designed for use in both north and south latitudes. Charts must be ordered by name and latitude thus:
Water- 48 / 52

Designed for long flights at high speed. Aeronautical information includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses. Topography complete with relief portrayed by contours and gradient tints.
CHART SPECIFICATIONS:

- Mercator Projection Lat 4°N to 4°S
- Lambert Conformal Conic Projection Lat 4° to 72°
- Stereographic Polar Projection 22° to 90°

Scale: 1:1,000,000 (1 inch = 16.000 miles, approx.)
Contour Interval: 1000 feet where shown.

Price: 25 cents each.

DESIGNATED NASA: WAC 304
Designed for long flights at high speed. Chart area limited to established routes, usually extends from air terminal to air terminal. Topography sufficient for contact flight yet aeronautical information is complete enough for radio navigation. Relief portrayed by contours and gradient tints. Aeronautical data includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses.
CHART SPECIFICATIONS:
Lambert Conformal Conic Projection, Lat. 4° to 72°
Scale 1:1,000,000 (1 inch = 16 Statute Miles - approx.)
Chart Size: Varied
Price 25 cents each. Designated thus: FC 20

* Scale: 1:500,000

Designed for long flights at high speed. Chart area, limited to established routes, usually extends from air terminal to air terminal. Topography sufficient for contact flight yet aeronautical information is complete enough for radio navigation. Relief portrayed by contours and gradient tints. Aeronautical data includes airways, radio and visual aids, aircraft facilities, isogonic lines and compass roses.
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INSTRUMENT LANDING SYSTEM CHARTS

1244A Adak I. (Davis AFB), Aleutian Is., Alaska
1245A Annette Island, Alaska
1246A Anchorage (Elmendorf), Alaska
1196A Anchorage (Elmendorf), Alaska
1188A Annette Island, Alaska
1026A Atkinson Field, British Guiana
1249ILS Attu I. (Casco Cove NAF), Aleutian Is., Alaska
1432A Bermuda (Kindley)
1241A Cold Bay (Thornbrough), Alaska
1774A Copenhagen (Kastrup), Denmark
1196A Cordova, Alaska
1137A Goose Bay, Labrador

1145A Keflavik, Iceland
1433ILS Lages, Terceira I., Azores
1782A Munich (Riem), Germany
1892A Prague (Ruzyně), Czechoslovakia
1163A Prestwick, Scotland
1762A Santa Maria, Azores
1151ILS Shannon, Eire
1246A Shemya I., Aleutian Is., Alaska
1139A Stephenville (Harmon), Newfoundland
1242A Umnak I. (Cape Afb), Alaska
1188A Yakutat, Alaska

GROUND CONTROL APPROACH CHARTS

1244 (GCA) Adak (Davis AFB), Alaska
1196 (GCA) Anchorage (Elmendorf), Alaska
1205 (GCA) Edmonton (Mun.), Alberta, Canada
1728 (GCA) Fairbanks (Eielson), Alaska
1219 (GCA) Fairbanks (Eielson), Alaska

1206 (GCA) Fort Nelson, B.C., Canada
1228 (GCA) Kodiak (NAS), Alaska
1447 (GCA) Munich (Forstenfeldbruck), Germany
1246 (GCA) Shemya I., Aleutian Is., Alaska
1708 (GCA) Wiesbaden, Germany
The handbooks are looseleaf and are maintained by issue of corrected or supplemental sheets as conditions require. The indexed handbooks serve foreign areas(7,5),(994,987) in which U.S. aircraft may be expected to operate with the exception of the Pacific Ocean area (Approach and Landing Charts and other operational information for this area are contained in H.O. 503, Pacific Airways Route Manual, published by the U.S. Navy Hydrographic Office.)

**CHART SPECIFICATIONS:**

Price: 5 Dollars per handbook - 5 cents per page. Annual subscription rates furnished on application.

Designated thus: PILOT'S HANDBOOK - CARIBBEAN

Designed for use of flight crews while airborne and contain operational flight data pertaining to air routes, radio facilities, flight procedures, and Approach and Landing Charts.
NAVAL AVIATION CHARTS - V30 SERIES

CHART SPECIFICATIONS:
Mercator Projection
Scale: 1:2,188,800 (1 inch = 35 Statute Miles, approx.)
Chart Size: 35 by 54 inches (approx.)
Contour Interval: 1000 feet

Price 50 cents each. Designated thus: V30-18

Designed primarily for use in larger aircraft for long range air navigation.
Show essential topographic and aeronautical information with land areas tinted.
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<td>Boise</td>
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**FOR THE SALE OF AERONAUTICAL CHARTS**

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**OFFICE OF THE SURVEY-GEODETIC SURVEY AUTHORIZED AGENTS**

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**FOR THE SALE OF AERONAUTICAL CHARTS**

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<td>Texas</td>
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For the sale of aeronautical charts

Indiana
Columbus: Mr. John Y. Owens, Columbus Municipal Airport
Elkhart: Airco, Inc., Elkhart Airport
Evansville: Mid-West Air Transport Inc., Municipal Airport
Fort Wayne: Airco, Incorporated, Smith Field
Indianapolis: Air Sales and Service Inc., Weir Cook Municipal Airport
Roseme Turner Aeronautics, Municipal Airport
Muncie: Muncie Aviation Corporation, Airport Two Miles North of City
South Bend: Indiana Air Service, Inc., Bendix Field
Vincennes: O'Neal Aviation Corp., O'Neal Airport
West Lafayette: Purdue Aeronautics Corporation, The Purdue University Airport

Iowa
Cedar Rapids: Hunter Flying Service
Davenport: Elliot Flying Service, Crum Field
Des Moines: Des Moines Flying Service, Inc., Municipal Airport
Iowa Airplane Company, Inc., Municipal Airport
Dubuque: Midwest Aviation Company Municipal Airport
Esterhazy: Harry Coffie Flying Service
Mason City: Air Activities, Inc., Municipal Airport
Sioux City: Graham Flying Service

Kansas
Dodge City: Mahon's Boot Hill Flying Service, Municipal Airport
Kansas City: Pacific Airmotive Corp., flagship Airport, Hangar No. 5
Salina: Aspegren Air Service, Municipal Airport
Topeka: Topeka Aircraft Sales and Service, Municipal Airport
Wichita: Aviation Service Incorporated, Municipal Airport

Kentucky
Elizabethtown: Boone County Airlines, Inc.
Lexington: Bohmer Flying Service, Inc., Blue Grass Field
Lexington Flying Service, Inc., Municipal Airport and No. 2 Union Sta., Blvd.
Louisville: Louisville Flying Service, Inc., Bowman Field

Louisiana
Alexandria: Alexandria Flying Service, Municipal Airport, Route 1
Baton Rouge: Louisiana Aircraft Sales Co.
Monroe: Northeast Aviation Service, Inc., Selman Field
New Orleans: Fre Witt Aircraft Sales Co., Inc., New Orleans Airport
Supervisor, Southern District, Coast and Geodetic Survey
428 Canal Street
Baton Rouge: Stockey's Flying Service, Municipal Airport
Shreveport: Manager, Municipal Airport

Maine
Auburn: Sky Harbor Flying Service, Auburn-Lewiston Airport
Caribou: Caribou Flying Service, Municipal Airport
Old Town: Central Maine Flying Service, Old Town Municipal Airport
South Brewer: Doane's Airport, Inc., 138 Elm Street
South Portland: Portland Flying Service, Inc., Port of Maine Airport
Waterville: Marden Airways, Inc., Municipal Airport

Maryland
Annapolis: Weems System of Navigation
Baltimore: Atlantic Airmotive Distributors, Inc., Baltimore Municipal Airport
Officer-In-Charge, U.S. Coast and Geodetic Survey, 52 E. 32nd St.
Cromwell Station: Columbia Air Center
Easton: Maryland Airlines, Co., Inc., Municipal Airport
Frederick: Stevens Flying Service, Stevens Airport, R. F. D. No. 3
Hagerstown: Henson Flying Service, Inc., Municipal Airport
Riverdale: Sanders Aviation, Inc., Ever Field

Massachusetts
Bedford: Aerosaint Div. of East Coast Aviation Corp., Bedford Airport
Van Dusen Aircraft Supplies, Inc., Boston, Bedford Airport
Beverly: Eastern Aviation, Inc., Beverly Airport
Boston: Inter-City Aviation, Inc., East Boston Airport
Supervisor, Northeastern District, Coast and Geodetic Survey
Cass house
Brookton: Brockton Airways, Inc., Brockton Airport
New Bedford: Massachusetts Air Industries, Municipal Airport
North Easton: Jennings Bros. Air Service, Grafton Airport
Norwood: Servair Corporation, Metropolitan Airport
Orange: Pioneer Valley Aviation, Municipal Airport
Revere: Revere Airways, Inc., Revere Airport
South Hadley: Mt. Holyoke School of Aeronautics, South Hadley Seaplane Base
Ferry St.
Townsend: Brit's Airways, R. F. D., Groton Airport
Worcester: Universal Aviation Corp., Municipal Airport

Michigan
Adrian: Gotschalk Aviation Service, 403 South Winter Street
Detroit: General Aircraft Supply Corp., Detroit City Airport
Servair, Inc., Detroit City Airport
Farmington: Wayne County Flying Service, Krist-Port Airport, Orchard Lake Road
Grand Rapids: Northern Air Service, Kent County Airport
Iron Mountain:
Airport Cafe, Ford Airport
Lansing: Hughes Flying Service, Capitol City Airport
Roosville: Aviation Services, Inc., 56000 Gratiot Ave. at 11 1-2 Mile Road

Minnesota
Duluth: Sportsmen Airways, Inc., Sky Harbor, Park Point
Mankato: Mankato Aero Service
Minneapolis: De Ponti Aviation Co., Inc., Wold-Chamberlain Field
Van Dusen Aircraft Supplies, Inc., 2004 Loundsdale Ave.
St. Cloud: Van's Air Service, Municipal Airport
Winona:
Sevdy-Sorensen Aviation, Winoninc Municipal Airport

Mississippi
Greensboro: Manager, Greenwood Municipal Airport
Jackson: Airport Manager, Municipal Airport
Laurel:
Magnolia Airways & Aviation Co.

Missouri
Joplin: Finley's Flying Service, Municipal Airport
Kansas City:
Kansas City Flying Service & Air College, Inc., Municipal Airport, 719 Richards Road
Mid-Continent Airlines, Inc., 102 E. 9th Street
Officer in Charge, U.S. Coast and Geodetic Survey, Room 408, Fidelity Bldg.
Toth Flying Service, Municipal Airport
Transcontinental & Western Air, Inc., Municipal Airport
St. Louis: Supply Division, Inc., Lambert Airport, Robertson, Mo.
Springfield:
Southwest Airmotive Corp., Queen City Airpark
Springfield Flying Service, Inc., Route 2, Box 90

Montana
Helena: Lynch Flying Service

Moria
Morrison Flying Service, Municipal Airport

Nevada
Las Vegas:
Johnson Flying Service, Inc., Hale Field

New Jersey
Columbia Air Center

Ohio
Cincinnati:

Oklahoma

Oregon

Pennsylvania

Rhode Island

South Carolina

South Dakota

Tennessee

Texas

Utah

Vermont

Virginia

Washington

West Virginia

Wisconsin

Wyoming

*Information only - charts not available for sale
### U.S. Coast & Geodetic Survey Authorized Agents (Continued)

**FOR THE SALE OF AERONAUTICAL CHARTS**

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<td>Central Aero Supply, Inc., Central Airport</td>
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<td>Tillamook Air Service, Bend Municipal Airport</td>
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<td>Leligh Aircraft Company, Allentown-Bethlehem Airport</td>
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## Pennsylvania - Cont.

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<td>Philadelphia</td>
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<td>Pittsburgh</td>
<td>Durham Aircraft Service, Inc., Bob Trader</td>
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<td>Aero Supply Div., 508 Liberty Avenue</td>
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<td>Russell P. Hay, Inc., Allegheny County Airport</td>
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<td>National Aviation Supply Co., 701 East</td>
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<td>Carson Street</td>
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<td>Aviation Consultants, Inc., Municipal Airport</td>
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## South Carolina

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## Tennessee

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<tr>
<td>Brownsville</td>
<td>Boulder Aircraft Service, Municipal Airport</td>
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<tr>
<td>Cumnecoro</td>
<td>Biltmore Aviation Co., Municipal Airport</td>
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<tr>
<td>Knoxville</td>
<td>Capital Airways, Inc., Cumberland Field</td>
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<tr>
<td>Nashville</td>
<td>Nashville Flying Service, Municipal Airport</td>
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## Texas

<table>
<thead>
<tr>
<th>City</th>
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<tbody>
<tr>
<td>Abilene</td>
<td>Abilene Aviation School, Municipal Airport</td>
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<tr>
<td>Amarillo</td>
<td>Manager, English Field</td>
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<tr>
<td></td>
<td>Tradewinds Airport Corporation.</td>
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<tr>
<td>Austin</td>
<td>Browning Aerial Service, University Airport</td>
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<tr>
<td>Brownsville</td>
<td>Raggedy Flying Service, Municipal Airport</td>
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<tr>
<td>Bryan</td>
<td>Brownsville Flying Service, Municipal Airport</td>
</tr>
<tr>
<td>Corpus Christi</td>
<td>Rod More Aviation Services, Cuddiff Field</td>
</tr>
<tr>
<td>Dallas</td>
<td>Air Associates, Inc., 3200 Love Field</td>
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<tr>
<td></td>
<td>Braniff Airways, Inc., Love Field</td>
</tr>
<tr>
<td>Dallas Aviation School</td>
<td>Love Field</td>
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<tr>
<td>Hicks Sales and Service, Inc.</td>
<td>Highland Park Airport</td>
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<tr>
<td>Mustang Aviation, Inc., Mustang Field</td>
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<tr>
<td>Southwest Airmotive Company</td>
<td>3416 Love Field Drive</td>
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<tr>
<td>Texair Aviation, Inc., Redbird Airport</td>
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## New Jersey - Cont.

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<th>City</th>
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<tbody>
<tr>
<td>Millersburg</td>
<td>Scott Aircraft Sales, Inc., Municipal Airport</td>
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<td>New Brunswick</td>
<td>Fort Worth</td>
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<td>Aircraft Sales Co., Menasha Field</td>
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<td>Court House</td>
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<td>Midwest Airport, Inc., 4599 Tarrant Road</td>
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<td>Ritchey Flying Service, Menasha Field</td>
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<td></td>
<td>Aero Parts Supply, Municipal Airport</td>
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<td>J. D. Reed Company, Municipal Airport</td>
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<td></td>
<td>Supply Division, Inc., 8244 Lockheed Avenue</td>
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<td>International Aircraft Service, Municipal Airport</td>
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## Vermont

<table>
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<tbody>
<tr>
<td>Brattleboro</td>
<td>St. John Flying Service, Airport</td>
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<tr>
<td>Winooski</td>
<td>United Aero Corporation, 690 Queen Anne Ct.</td>
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<td>Western Aero Supply Corp., Municipal Airport</td>
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