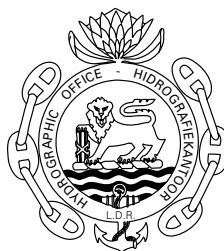


Notices 93 - 106  
September 2001

*Supplied Gratis*



# SOUTH AFRICAN NOTICE TO MARINERS

SEPTEMBER 2001 EDITION

PUBLISHED MONTHLY  
BY THE  
HYDROGRAPHIC OFFICE  
CAPE TOWN

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## IMPORTANT

Mariners are requested to inform the Hydrographer, Private Bag X1, Tokai 7966, immediately of the discovery of new dangers, or changes or defects in aids to navigation and of shortcomings in South African charts or publications. Copies of form HO-16, which is a convenient form on which to send in a report, may be obtained gratis from any Official Chart Agent or the reproduction at the end of Section VI of the monthly edition of Notices to Mariners.

In addition to postal methods, the following additional communication facilities are available :

|                                   |          |   |
|-----------------------------------|----------|---|
| Notices to Mariners Website :     | Web :    | <a href="http://hydro.imt.za/hydronet/Ho/">http://hydro.imt.za/hydronet/Ho/</a> |
| Urgent navigational information : | Fax :    | 021 787 2228  |
|                                   | Phone :  | 021 787 2445  |
| Other navigational information :  | Phone :  | 021 787 2444  |
|                                   | E-mail : | <a href="mailto:hydrosan@iafrica.co.za">hydrosan@iafrica.co.za</a>              |
| General information :             | Phone :  | 021 787 2408  |

**L.D. Reeder, Captain**  
**Hydrographer, SA Navy**  
**NAVAREA VII Co-ordinator**

**I**

**INDEX OF CHARTS AND PUBLICATIONS AFFECTED**

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| <b>SAN Charts</b> | <b>Notices</b>      | <b>Pages</b> |
|-------------------|---------------------|--------------|
| 75(INT 2630)      | 93(T)               | 1            |
| 79(INT 2670)      | 100(T)              | 2            |
| 80(INT 2680)      | 100(T)              | 2            |
| 119               | 100(T)              | 2            |
| 126               | 103                 | 3            |
| 150               | 100(T)              | 2            |
| 1002(INT 2631)    | 93(T), 94(T), 95(T) | 1            |
| 1003              | 96, 97              | 1, 2         |
| 1009              | 99                  | 2            |
| 1016              | 100(T)              | 2            |
| SC 3              | 98                  | 2            |
| SC 4              | 100(T)              | 2            |
| SC 5              | 100(T), 101, 102(T) | 2, 3         |

| <b>SAN Publications</b>                              | <b>Notices</b> | <b>Pages</b> |
|--|----------------|--------------|
| SAN HO-1   | 106            | 5            |
| SAN HO-3   | 105            | 5            |
| Annual Summary of Notices to Mariners - 2001 Edition | 104            | 5            |

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## I

### **Spheroid / GPS Positions**

All positions quoted in these Notices are referred to **Clarke 1880 (Mod) Spheroid** unless otherwise stated. On chart scales of **1: 100 000 and smaller**, positions from **GPS receivers** set to **WGS 84** may be plotted directly on these charts. Mariners are warned that **insertion of Clarke 1880 (or other) positions on Automatic Plotters which are set to WGS 84 Spheroid can result in inaccurate navigation practices.**

### **Temporary and Preliminary Notices**

(T) and (P) notices are printed in Section I and Shown in the Index of Charts Affected. A list of those in force, will be published each month. Charts are not corrected for these notices before issue. Charts affected should be corrected in pencil from (T) or (P) notices on receipt.

### **Permanent Notices**

Permanent corrections in Section II are marked by a star adjacent to the notice number to indicate that the notice is based on original information. Periodic lists of permanent corrections pertaining to affected navigational charts and publications are published annually and copies may be obtained from the Hydrographic Office or through a Chart Agent.

### **Chart Corrections**

Further details are contained in NP100 The Mariner's Handbook which should be consulted for the correct procedures of filing, inserting and noting all types of corrections on nautical charts and other hydrographic publications. The Handbook may be obtained from Admiralty Chart Agents in Cape Town and Durban. Consult SAN HO-6 for Symbols and Abbreviations used on SAN Charts and NP735 for an illustrated explanation of the IALA Maritime Buoyage System.

### **Provision of Notices to Mariners**

These Notices are *gratis* and may be obtained on request from the Hydrographic Office or through the approved Chart Agents. Additional copies required of "block" chart corrections can also be obtained through the above procedure.

## **GUIDANCE NOTES FOR VIEWING AND PRINTING NOTICES USING ADOBE ACROBAT**

For optimum results when viewing and printing material from the PDF digital files please note the following:

The minimum specification is a 486 PC with Windows 3.1 and 4MB of RAM.

When printing data from the files, ensure the Fit to Page icon in the Adobe Acrobat print menu is switched off before printing. Otherwise large text pages will be compressed, or large size Blocks may not fit the chart.

If printing text or monochrome NM Blocks, the minimum specification is an Inkjet or good quality Laser Postscript printer with at least 6 MB of memory. (NB. If using a Postscript printer, ensure the Postscript printer driver is installed).

For printing Colour NM Blocks the minimum specification of printer is a good quality Ink Jet/Laser printer with 300 dpi resolution or greater.

If using certain types of Ink Jet printer ensure the setting is set to Dithered screening not Pattern screening.

Printed colour copies should be compared with the colour image on screen to ensure that all the colours have reproduced correctly. Printer property resolution and ink density may need to be increased or adjusted to obtain the best results.

Ensure the Colour Ink Cartridge is in accordance with the printer manufacturers specifications. Minimum paper specification for printing Colour NM Blocks is International paper size A4, thickness/weight 80 gsm paper. (The same paper as used for NM Blocks in the NM Weekly). NB. (Ensure the paper quality is in accordance with the Printer manufacturers specifications).

**The Hydrographer does not accept any liability for the display and printing of these digital Notices to Mariners on the users equipment.**

**I**

**TEMPORARY NOTICES AND PRELIMINARY NOTICES**

**In force 25 September 2001**

**TEMPORARY NOTICES**

**1999 Series**

|       |         |          |                               |
|-------|---------|----------|-------------------------------|
| 74(T) | RSA     | E. Coast | Current Meter laid.           |
| 93(T) | Namibia | S. Coast | Buoy and Current Meters laid. |

**2000 Series**

|       |         |          |                            |
|-------|---------|----------|----------------------------|
| 59(T) | RSA     | S. Coast | Current Meter - Buoy laid. |
| 75(T) | RSA     | S. Coast | Current Meters laid.       |
| 88(T) | Namibia | S. Coast | Current Meters laid.       |

**2001 Series**

|        |         |               |   |
|--------|---------|---------------|---|
| 82(T)  | Namibia | Walvisbaai    | Unlit vessel at anchor.                 |
| 86(T)  | RSA     | St Helenabaai | Telemetry Marker Buoy laid.             |
| 93(T)  | Namibia | Lüderitz      | Diaz Point Fog Signal inoperative.      |
| 94(T)  | Namibia | Lüderitz      | Bell Buoy unlit.                        |
| 95(T)  | Namibia | Lüderitz      | Tiger Reef Buoy missing.                |
| 100(T) | RSA     | Valsbaai      | Whittle Rock Buoy Racon(B) inoperative. |
| 102(T) | RSA     | SW Coast      | Arniston Light Character change.        |

**PRELIMINARY NOTICES**

**Nil prior to these Notices.**

**2000 Series**

Nil.

**2001 Series**

|       |     |              |                          |
|-------|-----|--------------|--------------------------|
| 61(P) | RSA | S & E Coasts | Underwater cable laying. |
| 81(P) | RSA | S & W Coasts | Underwater cable laying. |

II

**SAN NOTICES TO MARINERS**

**MISCELLANEOUS:**

1. Mariners are advised that South African Notices to Mariners is available in PDF format on the internet at Website : <http://hydro.imt.za/hydronet/Ho/>.

2. Mariners attention is invited to the fact that the Hydrographic Office E-Mail number hydrosan@iafrica.co.za is only manned during office hours, Mondays to Friday, between the hours of 0600 UTC and 1400 UTC. Only matters of a routine nature must be forwarded by this method.

**\*93(T) NAMIBIA, Lüderitz - Diaz Point Fog Signal (Z5541).**

1. Insert : Inoperative, alongside **Horn 30s** in position 36°37'.9 S, 015°05'.6 E.

2. Originally issued as Coastal Navigational Warning 426 of 2001.

*SAN Charts :* SAN 75(INT 2630) (23/01)  
SAN 1002(INT 2631) (50/00)  
*Source :* NAMPORT (SAN 75, 1002)

**\*94(T) NAMIBIA, Lüderitz - Bell Buoy.**

1. Insert : Unlit, next to buoy in position 26°37'.61 S 015°09'.1 E

2. Originally issued as Coastal Navigation Warning 466 of 2001.

*SAN Chart :* SAN 1002(INT 2631) (50/00)  
*Source :* NAMPORT (SAN 1002)

**\*95(T) NAMIBIA, Lüderitz - Tiger Reef Buoy.**

1. Buoy missing from position 26°36'.75 S 015°09'.63 E

2. Originally issued as Coastal Navigation Warning 467 of 2001.

*SAN Chart :* SAN 1002(INT 2631) (50/00)  
*Source :* NAMPORT (SAN 1002)

**\*96 SOUTH AFRICA, South West Coast - Port Nolloth - Shoaling.**

1. Delete : Note : SHOALING/VERVLAKKING.

2. Insert : Accompanying Block Correction in approximate position 29°15'06" S 016°52'45" E

*SAN Chart :* SAN 1003 (114/00)  
*Source :* Hydrographer (SAN 1003)

II

**\*97 SOUTH AFRICA, South West Coast - Lambert's Bay - Shoaling.**

1. Insert : Legend **Shoaling** in approximate position  
(see Note) 32°05'12" S 018°18'24" E

2. Insert : Accompanying Block Correction in approximate position  
32°05'42" S 018°17'00" E

SAN Chart : SAN 1003 (96/01)

Source : Hydrographer

(SAN 1003)

**\*98 SOUTH AFRICA, South West Coast - Lambert's Bay & Laaiplek - Shoaling.**

1. Insert : Legend **Shoaling** - in approximate positions  
(see Note)

a. Lambert's Bay panel 32°05'12" S 018°18'24" E  
b. Laaiplek panel 32°46'00" S 018°08'30" E

2. Insert : Accompanying Block Correction in approximate position  
32°32'.0 S 017°30'.0 E

SAN Chart : SAN SC 3 (48/01)

Source : Hydrographer

(SAN SC 3)

**\*99 SOUTH AFRICA, South West Coast - Laaiplek - Shoaling.**

1. Insert : Legend **Shoaling** - in approximate position  
(See Note)

32°45'51" S 018°08'06" E

2. Insert : Accompanying Block Correction in approximate position  
32°46'.7 S 018°14'.0 E

SAN Chart : SAN 1009 (47/01)

Source : Hydrographer

(SAN 1009)

**\*100(T) SOUTH AFRICA, South Coast - Valsbaai - Whittle Rock Buoy (Zf5875) (Df6140).**

1. Delete : **Racon (B)** in position 34°14'.8 S 018°34'.2 E

2. Originally issued as Coastal Navigation Warning 432 of 2001.

SAN Charts : SAN 79(INT 2670) (48/01)

SAN 80(INT2680) (68/01)

SAN 119 (67/01)

SAN 150 (53/01)

SAN 1016 (53/01)

SAN SC 4 (51/01)

SAN SC 5 (51/01)

Source : PORTNET

(SAN 79, 80, 119, 150, 1016, SC 4, SC 5)

II

**\*101 SOUTH AFRICA, South West Coast - False Bay - Harbour Island - Buoys**

1. Delete Yellow (Y) Buoys in Dredged channel  
in approximate position 34°09'10" S 018°51'18" E

2. Amend *RG* buoys in Dredged Channel to read *R* on port side and *G* on starboard side of channel  
in approximate position 34°09'12" S 018°51'14" E

*SAN Chart :* SAN SC 5 (51/01)  
*Source :* HARBOUR ISLAND ESTATE MANAGER (SAN SC 5)

**\*102(T) SOUTH AFRICA, South West Coast - Waenhuiskrans - Arniston Light (Z5988)(D6370.3)**

Amend Light characteristic to read : Q.R.2m2M  
in position 34°40'.0 S 020°13'.9 E

*SAN Chart :* SAN SC 5 (101/01)  
*Source :* PORTNET (SAN SC 5)

**\*103 SOUTH AFRICA, South East Coast - Port Alfred - South Breakwater Light (Z6160)(D6414).**

Amend Light elevation to read: 9m  
in position 33°36'.2 S 026°54'.2 E

*SAN Charts :* SAN 126 (133/00)  
*Source :* PORTNET (SAN 126)

## IIA

### LIST OF TEMPORARY AND PRELIMINARY NOTICES TO MARINERS ISSUED BY THE MOZAMBIQUE INSTITUTE OF HYDROGRAPHY AND NAVIGATION (INAHINA) IN 2001

#### 1998 Series

|         |                 |                    |       |
|---------|-----------------|--------------------|-------|
| 2MOZ(T) | Port of Beira - | Lit Waverider Buoy | Laid. |
| 3MOZ(P) | Port of Beira - | White Spar Buoy    | Laid. |

#### 1999 Series

|             |                     |                     |                 |
|-------------|---------------------|---------------------|-----------------|
| 03MOZ(T)/99 | Mocimboa da Praia - | No. 9, 13, 14 Buoys | Withdrawn.      |
| 12MOZ(P)/99 | Port of Quelimane - | Depths              | Amended depths. |

#### 2000 Series

|             |                  |                            |                        |
|-------------|------------------|----------------------------|------------------------|
| 05MOZ(T)/00 | Port of Maputo - | Buoy No. 1N.               | Temp. unlit.           |
| 07MOZ(T)/00 | Port of Pebane - | Buoy No. P.                | Temp. out of position. |
| 08MOZ(T)/00 | East Coast -     | Barra Falsa Light (D6536)  | Temp. unlit.           |
| 09MOZ(T)/00 | East Coast -     | Ponta Zavora Light (D6528) | Temp. unlit.           |
| 10MOZ(T)/00 | South Coast -    | Boa Paz Light (D6524)      | Temp. unlit.           |

#### 2001 Series

|             |                             |                            |                  |
|-------------|-----------------------------|----------------------------|------------------|
| 01MOZ(T)/01 | Port of Maputo -            | Buoy No. 2N.               | Temp. unlit.     |
| 03MOZ(T)/01 | Port of Beira -             | Buoy No. 10                | Temp. unlit.     |
| 06MOZ(T)/01 | Port of Beira -             | Buoy No. 1                 | Out of position. |
| 07MOZ(T)/01 | Port of Beira -             | Buoy No. T                 | Out of position. |
| 08MOZ(T)/01 | Port of Beira -             | Buoy No. 7                 | Repositioned.    |
| 09MOZ(T)/01 | Port of Mocimboa Da Praia - | Tambuzi Light (D6642)      | Temp. unlit.     |
| 10MOZ(T)/01 | Port of Pemba -             | Said Ali Light (D6628)     | Temp. unlit.     |
| 11MOZ(T)/01 | Port of Pemba -             | Ponta Romero Light (D6630) | Ttemp. unlit.    |



IV

**CORRECTIONS TO SOUTH AFRICAN PUBLICATIONS**

**104 ANNUAL SUMMARY OF SOUTH AFRICAN NOTICE TO MARINERS (2001 Edition)**

Page 2. **INTERNATIONAL AGENTS**

1. Amend Portugal to read :

|          |                                  |  |   |
|----------|----------------------------------|--|---|
| Portugal | <b>J.Garraio &amp; Co., Lda.</b> | Ave 24 de Julho, n°. 2 - 1°. Dt°<br>1200 478 Lisboa. | Tel : 00 351 21347 30 81<br>Fax : 00 351 21 342 89 50<br>E-mail j.garraio@mail.telepac.pt<br>Website: www.jgarraio.pt |
|----------|----------------------------------|--|---|

**105 CATALOGUE AND INDEXES OF SAN CHARTS AND OTHER HYDROGRAPHIC PUBLICATIONS. HO-3 (2000 Edition)**

Page 5. **INTERNATIONAL AGENTS**

1. Amend Portugal to read :

|          |                                  |  |   |
|----------|----------------------------------|--|---|
| Portugal | <b>J.Garraio &amp; Co., Lda.</b> | Ave 24 de Julho, n°. 2 - 1°. Dt°<br>1200 478 Lisboa. | Tel : 00 351 21347 30 81<br>Fax : 00 351 21 342 89 50<br>E-mail j.garraio@mail.telepac.pt<br>Website: www.jgarraio.pt |
|----------|----------------------------------|--|---|

Page 25. **ALGOA BAY**

1. Replace : Existing entry for ALGOA BAY with accompanying block correction. (See run-on)

V

**CORRECTIONS TO LIST OF LIGHTS AND RADIO SIGNALS - SAN HO-1**

**106 (New Edition 2001)**

Page 19 : Replace existing **Arniston** light entries with the following :

|                    |          |                    |              |   |   |          |                        |
|--------------------|----------|--------------------|--------------|---|---|----------|------------------------|
| Z5988<br>(D6370.3) | Arniston | 34 40.0<br>20 13.9 | Q.R.<br>2800 | 2 | 2 | Pole (2) | <i>f/l 0.3, ec 0.7</i> |
|--------------------|----------|--------------------|--------------|---|---|----------|------------------------|

Page 21 : Replace existing light entries with the following and include new Sector Light Z6162 :

**PORT ALFRED**

|                  |                          |                    |      |   |   |                          |                        |
|------------------|--------------------------|--------------------|------|---|---|--------------------------|------------------------|
| Z6160<br>(D6414) | South Breakwater<br>Root | 33 36.2<br>26 54.2 | Q.R. | 9 | 5 | Square lattice tower (4) | <i>f/l 0.3, ec 0.7</i> |
|------------------|--------------------------|--------------------|------|---|---|--------------------------|------------------------|

|                    |                  |                    |      |   |   |          |                        |
|--------------------|------------------|--------------------|------|---|---|----------|------------------------|
| Z6161<br>(D6414.5) | North Breakwater | 33 36.2<br>26 54.2 | Q.G. | 9 | 5 | Pole (3) | <i>f/l 0.3, ec 0.7</i> |
|--------------------|------------------|--------------------|------|---|---|----------|------------------------|

|                |                        |                    |         |    |   |   |  |
|----------------|------------------------|--------------------|---------|----|---|---|--|
| Z6162<br>(new) | Kowie River<br>Dir. Lt | 33 36.2<br>26 54.1 | F.R.W.G | 10 | " | " |  |
|----------------|------------------------|--------------------|---------|----|---|---|--|

## VI

### NAVIGATIONAL WARNINGS

#### NAVAREA VII and Coastal Navigational Warnings Bulletin in force as at 25 September 2001

Broadcast Warnings are available at Port Offices and remain valid until cancelled or until superseded by this and/or other broadcast bulletins.

#### NAVAREA VII MESSAGES

Nil Prior to these Messages.

##### 2001 Series

|     |                               |                                       |
|-----|-------------------------------|---------------------------------------|
| 106 | S.Atlantic/NE Sector, Angola  | Drill Rig Pride of Angola.            |
| 119 | S.Atlantic/NE Sector, Namibia | Seismic survey by R/V Ramfort Viking. |

#### COASTAL NAVIGATIONAL WARNINGS

##### 2001 Series

|     |             |                  |  |
|-----|-------------|------------------|--|
| 426 | Namibia     | Lüderitz         | Diaz Point Fog Signal non operational.       |
| 432 | RSA         | False Bay        | Whittle Rock (Zf5875) racon non operational. |
| 460 | RSA         | St Helenabaai    | Yellow Spherical Telemetry Buoy placed.      |
| 461 | RSA         | Cape Agulhas     | Rig List.                                    |
| 466 | Namibia     | Lüderitz         | Bell Buoy unlit.                             |
| 467 | Namibia     | Lüderitz         | Tiger Reef Buoy missing.                     |
| 481 | RSA         | Cape Agulhas     | Target Firing Exercises.                     |
| 487 | RSA/Namibia |                  | Mining Vessel List.                          |
| 501 | RSA         | Simon's Bay      | East Breakwater Light unlit.                 |
| 502 | RSA         | South West Coast | Armiston Light unlit                         |
| 504 | RSA         | Cape Agulhas     | Seismic Surveying by MV Bavenit.             |
| 507 | RSA         | False Bay        | Torpedo Firing.                              |
| 508 | RSA         | False Bay        | Gunnery Exercise.                            |

**H0-16**

**Ship's Name :**

Consec No:

Date and Year:

## **HYDROGRAPHIC NOTE**

General Locality :

Subject :

Approx Position :                      Latitude:    Longitude:

SAN chart(s) affected :

Publications affected :

*(quote Volume, Supplement and Page)*

Full details :

A replacement copy of Chart No ..... is required.

Navigating Officer or Observer:

Captain or Master:

Ship (or address):

If Merchant Vessel add Line or                      :  
Company with Head Office address

*Note:*                      An acknowledgement of receipt will be sent and the information then used to the best advantage which may mean immediate action or inclusion in a revision in due course.

When a Notice to Mariners is issued the sender's ship or name is quoted as authority unless as sometimes happens the information is also received in a foreign Notice to Mariners.

### **Instructions for the forwarding information for South African charts and hydrographic publications**

1. Mariners are requested to notify the Hydrographer of the South African Navy, Private Bag X1, Tokai, 7966, or by Fax 021-787 2228, or e-mail *hydrosan@iafrica.co.za* when new or suspected dangers to navigation are discovered, changes observed in aids to navigation, or corrections to publications seem to be necessary.

2. Copies of this Form may be obtained gratis from the Hydrographer, Private Bag X1, Tokai, 7966 or the Chart Agents listed in Annual Summary of South African Notices to Mariners.

3. When a position is defined by sextant angles or bearing (true or magnetic north being specified) more than two should be used in order to provide a check. Any distances observed by radar should be quoted. When however there is a series of fixes along a ship's course, only the method of fixing and the objects used need to be indicated.

4. For positions obtained using GPS equipment the type of receiver and reference spheroid used must be included under Full Details.

5. A tracing from the largest scale chart or a cutting from it may be the best medium for forwarding details, and the alterations and additions should be shown thereon in red. A new copy of the chart will be sent if requested.

6. When soundings are forwarded the method used should be stated. If it is echo sounding, details should be forwarded as in Annual Notice to Mariners No 4. It is important to state whether echo depths are referred to the surface of the sea or to a transmitter at a specified depth below it. Time and date will be necessary to correct sounding for tidal height; and if any correction has already been made details must be given.

7. Reports which cannot be confirmed or are lacking in certain details should not be withheld. Shortcomings should be stressed and any firm expectation of being able to check the information on a succeeding voyage should be mentioned.

8. Reports of shoal soundings, navigation aids out of order, should be made by radio to the nearest coast radio station and addressed to HYDROSAN, CAPE TOWN. These reports should then be followed by documentary evidence on this form accompanied by the relevant echo sounder traces.

To accompany Notices to Mariners No 96 of 2001.

**SAN 1003 Port Nolloth Panel**

**SHOALING**

Shoaling occurs periodically in the approach channel and alongside the jetty. The NW corner of the jetty is unuseable by any craft other than shallow draft vessels. Vessels to observe extreme caution and to confirm situation with Harbour Master before entering harbour.

To accompany Notices to Mariners No 97 of 2001.

**SAN 1003 Lambert's Bay Panel**

**SHOALING**

Shoaling occurs periodically in the approach channel and alongside the jetties. Vessels to observe extreme caution and to confirm situation with Harbour Master before entering harbour.

To accompany Notices to Mariners No 98 of 2001.

**SAN SC 3**

**SHOALING**

Shoaling occurs periodically in the approach channel to Laaiplek and alongside the jetties as well as in the river towards Carinus Bridge, also in the approach channel to Lambert's Bay and alongside the jetties. Vessels to observe extreme caution and to confirm situation with

To accompany Notices to Mariners No 99 of 2001.

**SAN 1009**

**SHOALING**

Shoaling occurs periodically in the approach channel to Laaiplek and alongside the jetties as well as in the river towards Carinus Bridge. Vessels to observe extreme caution and to confirm situation with Harbour Master before entering harbour.

To accompany Notice to Mariners 105 of 2001

CATALOGUE ND INDEXES OF SAN CHARTS AND OTHER HYDROGRAPHIC PUBLICATIONS. HO-3 (2000 Edition)

Page 25

ALGOA BAY

**LARGE SCALE INTERNATIONAL CHARTS**

|        |          |          |                                    |        |           |           |           |           |          |          |
|--------|----------|----------|------------------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|
| WGS 84 | INT 7531 | SAN 1024 | Approaches to Port Elizabeth. .... | 50 000 | 33°42'10" | 34°07'36" | 25°35'00" | 25°56'25" | Sep 1980 | Nov 2000 |
|--------|----------|----------|------------------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|

**LARGE SCALE NATIONAL CHARTS**

|          |                           |        |           |           |           |           |  |  |          |          |
|----------|---------------------------|--------|-----------|-----------|-----------|-----------|--|--|----------|----------|
| SAN 1025 | Plans in Algoa Bay. ....  |        |           |           |           |           |  |  | Dec 1974 | Nov 2000 |
|          | Port Elizabeth. ....      | 15 000 | 33°54'54" | 33°58'45" | 25°35'47" | 25°42'12" |  |  |          |          |
|          | Bird Island Passage. .... | 40 000 | 33°42'04" | 33°51'48" | 26°11'54" | 26°29'00" |  |  |          |          |