



Islamic Republic of Iran
Ministry of Roads and Transportation
Ports and Shipping Organization

National Report for the 2nd ROPME Sea Area
Hydrographic Commission

Tehran – Iran

2nd – 3rd May 2006

Executive summary

Background

Iranian Hydrographic activities are distributed among three organizations which are active in Hydrography field . they all are governmental .

Iran is a member of IHO from 1961 .

The objective of Iranian National Hydrographic Office (NHO) is to provide services to assist the safe and efficient navigation of ships within the Iranian coastal waters, territorial sea, EEZ and inland waters.

The principal service is the provision of nautical information, including nautical charts, Notices to Mariners, Navigational Warnings and etc.

The provision of accurate and up to date charts offers significant economic and commercial benefits through facilitation of maritime trade and other marine activities.

Mission

The mission of the Iranian Hydrographic Office is to ensure the provision of adequate and timely hydrographic information for nation-wide and international marine navigation and other purposes (e.g. Off shore constructions, Research activities and etc) , through the co-ordination of the local hydrographic organizations.

Objectives

The Objectives of the Iranian Hydrographic Office are as follows:

- [1] The co-ordination and converging of national hydrographic activities;**
- [2] To Unify the national nautical charts and documents;**
- [3] Mutual Co-operation with IHO and neighboring countries.**

1. Hydrographic Office / Service:

General, including updates for the IHO Yearbook e.g. reorganization

Responsible Authority : Ministry of Roads and Transportation, PORTS AND SHIPPING ORGANIZATION (PSO) , Maritime Affairs Department

Address : South Didar Street Jahan-e Koodak Cross Road Tehran Iran , Zip code 15186

Principal functions of the National Hydrographic Office (NHO) :Safety of Navigation, Hydrographic Survey, Notice to Mariners and providing marine safety information.

National day : 11 February

Tel : +98 21 84931

Fax : +98 21 84932675

E-mail : Hydro@ir-pso.com

Telex: 212271

Date of establishment and Relevant National Legislation : June 1960

Name and rank of the Director or Head : Mr. S Ali Estiri DG of Maritime Affairs

Tonnage: 4,691,986

Total Budget : \$ 20 000 000

Senior Maritime Safety Officer: Mr. Ali Moradi

Staff employed :

Hydrographers (Name and rank of managing staff)

Mr. M.H. MOSHIRI

Mr. B. TAJFIROOZ

Mr. E. MAHDIPOUR

Cartographers (Name and rank of managing staff)

Mr. G.R. RAHIMI

Mr. Bahram AZADI

Administrators (Name and rank of managing staff)

M.H. KHODDAM MOHAMMADI

Other staff personal: 55 Persons

N° of charts published : 100

Surveying vessels:

- **EKTESHAF (56 m) 1983**
- **NAYBAND (30m) 2001**
- **GULF 85 2005**
- **ABNEGAR-1 2001**
- **SURVEY BOATS 2002**
- **GHEYAM 1 1994**
- **GHEYAM 5 1994**

Other information of interest :

Ports and Shipping Organization (PSO) according to national law has responsibilities of all maritime activities including :

- 1- Control of Safety of navigation in Iranian territorial waters and waterways.**
- 2- Hydrographic Surveys.**

On the other hand National Cartographic Center (NCC) together with National Geographic Organization (NGO) which are responsible for Cartography and Hydrography. The organizations are in close cooperation in order to improve the marine based activities, specially in hydrographic fields.

2. Surveys:

New technologies and /or equipment

- **Single & Double frequency GPS,DGPS.**
- **Motion sensors.**
- **Single beam echo sounders.**
- **Multibeam echo sounders.**
- **Seabed classificator (Roxann).**

New ships

Name : IRAN ABNEGAR

- **launching :2000**
- **Specifications:**
 - **Length : 34.20 m**
 - **Width 8 m**
 - **Draught 2.75 m**
 - **G.R.W. 305 tons, N.R.W. 91 tons**
 - **Crew and hydrographic staff 16**
 - **Fuel capacity 70 tons**
 - **Water capacity 50 tons**
 - **Ability of 15-21 days sea voyage**

3. New charts & updates:

ENCs

- Producing about 10 ENC charts.
- 10 charts under production.

ENC Distribution method

- ENC Distribution is planned through agreement with Heler Rayaneh Company through collaboration with a well known International distribution company.

RNCs

- Not applicable – Iranian chart production is in vector form only

INT charts

Following Iranian charts are according to INT chart scheme in the area I. Meanwhile it is decided to change method of national chart numbering. IR will be shown before chart number instead of PG.

- | | | |
|--------------------------|--------|----------|
| • National chart IR 3001 | —————▶ | INT 7205 |
| • National chart IR 3002 | —————▶ | INT 7208 |
| • National chart IR 3004 | —————▶ | INT 7207 |
| • National chart IR 3010 | —————▶ | INT 7210 |
| • National chart IR 3017 | —————▶ | INT 7305 |
| • National chart IR 3021 | —————▶ | INT 7302 |
| • National chart IR 3031 | —————▶ | INT 7306 |
| • National chart IR 3040 | —————▶ | INT 7240 |
| • National chart IR 3044 | —————▶ | INT 7307 |

National paper charts

- 1989 – 1998: Producing 26 paper charts
- 1998 – 2006: Producing more than 100

4 . New publications & updates:

New Publications

- Tide table 2006
- Tidal predication available on internet (www.iranhydrography.org)

Updated publications

Nearly up to 20 national charts are updated.

Means of delivery, e.g. paper, digital

Means of delivery are paper and digital form.

5) Maritime Safety Information (MSI)

Existing infrastructure for transmission:

PSO (Ports and Shipping Organization) of Iran is the national authority of Islamic Republic of Iran with collecting and issuing coastal and local warnings in sub-region of NAVAREA IX.

Maritime Safety Information (MSI)

1. Coastal warnings: Coastal MSI are promulgated by national co-ordinator by means of the WNWNS.

2. Local warnings: These warnings covers inshore and inland waters, often within the limits of jurisdiction of a harbour or port authorities.

3. The present situations regarding to the promulgation of MSI originated by I.R.of Iran are as follows:

3.1 Broadcast systems: VHF +NAVTEX

A) VHF

Local and Coastal Navigational Warnings including Meteorological Warnings and Forecasts are promulgated verbally for attention of local traffic and non conventional vessels which are not equipped to Navtex receiver.

B) NAVTEX

Iran operates two NAVTEX stations to broadcast MSI, in Bushehr and Shahid Rajaei Ports in North part of the Persian Gulf . (within NAVAREA IX)

3.2 NAVTEX in Persian Gulf and gulf of Oman:

1- Bandar Bushehr

Duration: 10 Minutes, Meteorological Information 0400, 1600

Coverage: 150 NM

Frequency: 518 kHz

Transmitting hours: 0000, 0400, 0800,1200,1600,2000

2- Banar Abbas

Duration: 10 Minutes, Meteorological Information 0450, 1650

Coverage: 150 NM

Frequency: 518 kHz

Transmitting hours: 0050, 0450, 0850,1200,1650,2050

3.3.3 Type of messages transmitting by the NAVTEX stations:

A: Navigational Warnings

B: Meteorological Warnings

E: Meteorological Forecast

D: Search and Rescue information and pirate attack warnings

4. Maritime Safety Information in Caspian Sea

Present situation

At present local and coastal navigational warnings are transmitted by VHF only,

New infrastructure in accordance with GMDSS Master Plan

Plan

To broadcast MSI to promote the safety of navigation in Caspian Sea, I.R. Iran has the intention to establish a NAVTEX station up in Freidoonkenar at South coast of Caspian Sea. The subject has been considered by IMO NAVTEX Panel.

The system will operate internationally on 518 kHz frequency with the coverage of 150 NM.

6. S-55

Latest update (Tables)

Basic Data:

Maritime Nation/ Area : Iran

Nation or Area Code: IR

Region ID : AS

Nation or Area (N or A) : N

EEZ (sq km x 1000): 190,0

Length of Coastline (km) : 3000,0

Data for S-55 Edition No. : 2

Latest Update : March 2006

Hydrographic Resources

Maritime Nation/Area: Iran

Hydrographic Surveying Vessels : 50 m ... 100 m 2 - < 25 m 4

Hydrographic Staff : Specialists 6- Assistants 25

***Positioning Methods: Long > 40 km DGPS, Syledis - Medium 5-40 km DGPS, MW
- Short Range EDM***

Status of Hydrographic Surveys

Maritime Nation/Area : Iran

Data Y/N: Y

State of Hydrography $d < 50m$: % adequate% 35-resurvey % 30 - unsurveyed%35

State of Hydrography $50m < d < 200m$:adequate % 35-resurvey%15unsurveyed%50

State of Hydrography $d > 200m$: adequate % 25- resurvey % 20 – un surveyed% 55

7. Capacity Building

Training received

- **Courses of Hydrography & nautical cartography in India**
- **Hydrographic courses in Japan**
- **Marine cartography courses in Tehran**
- **Hydrographic and nautical cartography courses in Italy**
- **ENC Production course in U.K.**
- **ENC Production course in Tehran**

Offered

- **Msc. Course of Hydrography in Tehran University are available and recently same course is available in Azad University Tehran branch.**
- **Oceanography and Marine physics courses are offered in Azad University Tehran and Ahvaz branches.**
- **In addition, to promote the technical hydrographic knowledge between RSAHC States, short courses can be carried out by National Cartography Center (NCC).**

- Status of national, bilateral, multilateral or regional development projects with Hydrographic component. (In progress, planned, under evaluation or study).

8. Oceanographic activities

Tide gauge network

- Mechanical tide gauges.
- Electronic tide gauges.
- Electronic Sea bed tide gauges.
- C.T.D & S.V.P.
- Bathy thermograph sensors.
- Current meters.
- Seabed samplers

9. Other activities

Participation in IHO Working Groups

- Participation in SPWG
- Participation in CPRNW
- Participation in IHO Conferences

Meteorological data collection

- Collecting Meteorological data via Iranian Meteorological Organisation and distributed by Navtex and VHF to provide safer shipping.

10. Conclusions

Iranian National Hydrographic Office has planed to publish the charts for the entire coast of Iran within the Persian Gulf and Gulf of Oman together in Caspian sea. INT charts also will be published accordingly . Deep sea surveys are also planned. All surveying activities are maintaining requirements of IHO standards for the Hydrographic surveys. As a national coordinator of Navarea IX, navigational warnings are timely promulgated in the area of jurisdiction.

For safer shipping ,ENC set has been established and efforts are concentrated to produce ENCs in near future.
