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UNIVERSAL SHIP CODE: A PROPOSAL

Prepared by the OAS/CEPAL Maritime Transport Programme

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## 1. Introduction

During the last decade there has been a growing awareness within the international community of the enormous cost imposed upon world trade by the need to provide commercial interests and national authorities with information about trade transactions, including transport aspects. In addition to the cost of producing thousands of millions of trade-related documents each year, with great repetition of the same information on different documents, delay in the availability of documents frequently slows the movement or delivery of the goods themselves and hence is the source of additional costs to importers, exporters and transporters.

Responding to this problem, many agencies of the United Nations family, as well as other national and international organizations, have developed facilitation programmes aimed at simplifying trade and transport documentation and procedures. One of the earliest and most successful of such programmes was that of the Working Party on Facilitation of International Trade Procedures of the Economic Commission for Europe (ECE).

Among the measures identified by the Working Party to reduce the cost of preparing and distributing trade and transport information are the application of modern data processing techniques and the use of telecommunications to replace the traditional physical transfer of documents. To obtain the full advantages of these techniques, codes are required for the words most frequently used in international trade transactions. Obviously, the usefulness of a given code will be far greater if it is accepted universally.

In view of the highly technical nature of work in this area, the ECE Committee on the Development of Trade decided, at its twentieth session in December 1971, to establish a Group of Experts on Automatic Data Processing and Coding as a subsidiary body of the Working Party on Facilitation of International Trade Procedures.<sup>1/</sup> During the first

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<sup>1/</sup> ECE, Report of the Group of Experts on its first session, TRADE/WP.4/107, 28 January 1972, paragraph 3.

session of the Group of Experts, in January 1972, codes concerning data contained in foreign trade documents were discussed and a recommendation was made that other specialized organization be called upon for information and assistance in preparing international standardized codes. With regard to a code for the names of ships, the International Chamber of Shipping (ICS) was suggested as an appropriate organization from which to obtain assistance.<sup>2/</sup> At the seventh session of the Group of Experts, in May 1974, the representative of the ICS reported that his organization had studied the problem and recommended that the ship's radio call sign be used as the code for the ship's name.<sup>3/</sup>

The document prepared by the ICS in support of its recommendation <sup>4/</sup> states that the name of the ship is at present required on most consignment-based documents and that for all coded messages replacing these a name code will be needed. Before selecting the ship's call sign as an appropriate code, the ICS examined the possibility of using either the ship's official number, issued by national registration authorities, or the Lloyd's Register Data Processing Number.

Since 1974, no serious question has been raised about whether to use the ship's call sign as an adequate (although not ideal) code for the ship's name. Repeated mention has been made in meetings of the Group of Experts, however, of the desirability of modifying the ship's call sign and incorporating in it the ISO Alpha-2 Country code.<sup>5/</sup>

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<sup>2/</sup> ECE, Report of the Group of Experts on its first session, TRADE/WP.4/107, 28 January 1972, paragraph 24.

<sup>3/</sup> ECE, Report of the Group of Experts on its seventh session, TRADE/WP.4/GE.1/14, 8 July 1974, paragraph 39.

<sup>4/</sup> ECE, Coding of ship's name (Note by the International Chamber of Shipping), TRADE/WP.4/GE.1/R.40, 8 August 1974.

<sup>5/</sup> ECE, Report of the Group of Experts on its seventh session, TRADE/WP.4/GE.1/14, 8 July 1974, paragraph 40; ECE, Report of the Group of Experts on its ninth session, TRADE/WP.4/GE.1/18/Rev.1, 16 June 1975, paragraph 20.

The OAS/CEPAL Maritime Transport Programme has examined with care the selection of an appropriate code for ship's names.<sup>6/</sup> While concurring with the recommendation that the ship's call sign be used as the code, the Programme has identified a series of problems related to the norms used to assign ship's call signs and to the maintenance of the international list of call signs which in their present form would make them difficult to use as a ship's name code. The purpose of the present paper is to suggest ways in which, through collaboration with the International Telecommunication Union, these problems could be overcome.

## 2. Criteria for selecting a ship's name code

In view of the fact that more than 60,000 codes would be assigned, it is important that appropriate criteria be used for selecting the type of code which will be used for the ship's name. Among these criteria, the following are of special importance:

(a) The code must be unique, with no possibility that the same code is assigned to more than one vessel.

(b) The code itself should convey information: specifically, it should be possible to identify the country of the ship's registry from the code itself. Additionally, the code should indicate the general characteristics of the ship, which would be extremely useful in cases where several ships with the same country of registry have the same name. This information would also permit a selective dissemination of code lists to users with differing interests.

(c) The code should be as short as possible and, if feasible, mnemonic in order to make it easier to remember.

(d) An existing code should be used, if possible, in order to simplify the problem of code maintenance and dissemination.

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<sup>6/</sup> For other work of the OAS/CEPAL Maritime Transport Programme in the field of coding, see Código de Puertos, E/CN.12/L.108/Add.1, April 1975, and Suplemento al Código de Puertos, E/CN.12/L.108/Add.2, September 1975.

On the basis of the first three criteria, an ideal ship's name code could be formed by six characters. The first two characters would be alphabetical and would identify the country of registry; the ISO Alpha-2 Country Code would be used for this purpose. The third character, a number indicating the general classification and tonnage range of the ship, might be one of the following:

- 1 Merchant vessel of up to 499 gross registered tons (grt)
- 2 Merchant ship of 500 to 5,999 grt
- 3 Merchant ship of 6,000 to 19,999 grt
- 4 Merchant ship of 20,000 to 70,000 grt
- 5 Merchant ship of more than 70,000 grt
- 6 Fishing vessel
- 7 Pleasure vessel
- 8 Naval/military ship
- 9 Other oceangoing vessels: official service ships, rescue ships, etc.
- 0 Ancillary vessel: tugs, harbour craft, etc.

The last three characters would be alphabetical and would be selected from the most significant letters of the ship's name. Thus the "Atlantic" might have the following codes, depending on the general characteristics of the ship and its country of registry:

- NL 1 ATL if it is a Dutch merchant ship of 494 grt
- LB 4 ATL if it is a Liberian bulk carrier of 27,029 grt
- US 6 ATL if it is an American fishing vessel
- GB 7 ATL if it is a British yacht
- CA 0 ATL if it is a Canadian tug

Despite the apparent attractiveness of a code of this type, it has the disadvantage of not complying with the fourth criterion, that it be an existing code. The creation and maintenance of an entirely new code would be extremely difficult, if not impossible, in view of the purpose to which the new code would be put. In addition, a code of the type described would encounter the problem of changes in the names of ships under the same registry, so that many codes would soon lose their mnemonic link. For these reasons, the search for a ship's

/name code

name code should begin by examining existing codes assigned to the world's merchant fleet.

### 3. Existing codes for ships

In the reports which the ICS has prepared on the ship's name code, three widely used existing codes are described and analysed: Lloyd's Register Data Processing Number, Ship's Official Number, and Ship's Call Sign. Each of these will be examined in turn in relation to the criteria for selecting a ship's name code.

(a) Lloyd's Register Data Processing Number. This is a unique seven digit number assigned by Lloyd's Register, which remains unchanged throughout the life of the ship. Lloyd's Register of Ships 1976-77 lists some 60,000 ships, including ships classified by Lloyd's Register and as many as possible of all other seagoing merchant ships of 100 gross tons and above. In recent years the first two digits assigned correspond to the year of notification to Lloyd's Register, while the seventh digit is a check-digit. The interior four digits are assigned chronologically during each year as notification is received.

While having the advantage of being unique, the number does not convey any information which would be useful for a ship's name code. It would therefore be necessary to prefix the number assigned by Lloyd's Register with the ISO Alpha-2 Country Code and possibly also by a digit indicating the general characteristics of the vessel, which would result in a ten-character alphanumeric code. There might also be concern about the advisability of adopting a code based on the commercial work of a single classification society.

(b) Ship's Official Number. This is the number assigned by the national registration authority to ships flying its flag. The characteristics of the number vary widely from country to country, as can be seen in the following examples:

- (i) Canada, Cyprus, United Kingdom, United States of America:  
six digits
- (ii) India, Japan: four to six digits
- (iii) Brazil, Taiwan, Turkey: four digits

/(iv) Chile,

- (iv) Chile, France, Greece, Liberia: three or four digits
- (v) USSR: the letter M and five digits
- (vi) Cuba: the letter C followed by four digits and ending with the letter B
- (vii) Kuwait: the letters KT and four digits
- (viii) Peru: the letters CO and four digits
- (ix) Israel, Portugal: two letters and three digits
- (x) South Korea: two letters and five digits
- (xi) Venezuela: four letters and four digits

Countries whose ship's official number exceeds six characters are few, so that in nearly all cases a ship's name code could be devised by prefixing the ISO Alpha-2 Country Code to indicate the country of registry and a digit to show the general characteristics of the ship, thus producing a unique code composed of nine alphanumeric characters. While maintenance of the resulting code at the national level should be relatively easy (as national authorities are presumably fully aware of what ships are registered under their flags), compilation, maintenance and distribution of the code at the international level would be extremely difficult and costly for the organization undertaking the task.

(c) Ship's Radio Call Sign. This is a four, six or seven character alphabetic or alphanumeric code assigned by national authorities according to norms established by the International Telecommunication Union (ITU). The ITU publishes each year (in French, English and Spanish), and maintains up-to-date through periodic supplements, the List of Ship Stations, with the stations arranged in alphabetical order of the names of the ships, irrespective of the country of registry. The sixteenth edition of the List, dated January 1976, includes 65,682 ship stations: 4,052 fitted with radiotelegraph installations, 35,086 with radiotelephone installations, and 23,546 with both types of installations. The distribution by general classification of ships is as follows:

/Merchant ships



|  |               |
|--|---------------|
| Merchant ships   | 9,919         |
| Pleasure ships   | 3,964         |
| Ships of a fishing fleet                                 | 3,681         |
| Naval/military ships                                     | 3,324         |
| Official service ships                                   | 880           |
| River vessels  | 288           |
| Rescue vessels   | 245           |
| Ships whose general classification has not been notified | <u>43,381</u> |
|  | 65,682        |

In view of the fact that the ITU Ship's Call Sign (SCS) is being considered for adoption as a universal ship's name code, it is necessary to examine in some detail its characteristics and dissemination.

(i) Structure of the Ship's Call Sign. The SCS is of varying length, whereas codes suitable for automatic data processing should, whenever possible, be of fixed length.

The SCS does not itself convey any information except the country having jurisdiction over the station, which presumably would nearly always coincide with the country of registry of the ship. In addition, the identification of the country is incorporated in the SCS in a completely arbitrary manner, unrelated to any other country code, reflecting the enormous increase in the number of ship's stations for which adequate provision was not made when the original structure of the SCS was designed. As a result, different series of initial alphanumeric characters are now assigned to a single country (see table 1): eight series to the USSR, seven each to France and the United Kingdom, four to the United States of America, etc. The Republic of Liberia, for example, has now been provisionally allocated the following series: A8A-A8Z, D5A-D5Z, ELA-ELZ, SLA-SMZ, 6ZA-6ZZ.

Finally, the SCS does not indicate the characteristics of the ship which carries the station concerned. This would seem to be an important omission, as the requirements of an errand of mercy for rescuing or assisting a ship of 25 grt are far different from those for a vessel of 25,000 grt.

Table 1

## TABLE OF ALLOCATION OF INTERNATIONAL CALL SIGN SERIES

(No. 747 of the Radio Regulations (Edition of 1976), amended in accordance with No. 749 thereof)

| Call Sign Series      | Allocated to   | Call Sign Series      | Allocated to   |
|-----------------------|--|-----------------------|--|
| AAA-ALZ               | United States of America                             | JTA-JVZ               | Mongolian People's Republic                          |
| AMA-AOZ               | Spain  | JWA-JXZ               | Norway   |
| APA-ASZ               | Pakistan   | JYA-JYZ               | Jordan (Hashemite Kingdom of)                        |
| ATA-AWZ               | India (Republic of)                                  | JZA-JZZ               | Indonesia (Republic of)                              |
| AXA-AXZ               | Australia  | KAA-KZZ               | United States of America                             |
| AYA-AZZ               | Argentine Republic                                   | LAA-LNZ               | Norway   |
| A2A-A2Z <sup>1)</sup> | Botswana (Republic of)                               | LOA-LWZ               | Argentine Republic                                   |
| A3A-A3Z <sup>1)</sup> | Tonga (Kingdom of)                                   | LXA-LXZ               | Luxembourg   |
| A4A-A4Z <sup>1)</sup> | Oman (Sultanate of)                                  | LYA-LYZ               | Lithuania  |
| A5A-A5Z <sup>1)</sup> | Bhutan   | LZA-LZZ               | Bulgaria (People's Republic of)                      |
| A6A-A6Z <sup>1)</sup> | United Arab Emirates                                 | L2A-L9Z <sup>1)</sup> | Argentine Republic                                   |
| A7A-A7Z <sup>1)</sup> | Qatar (State of)                                     | MAA-MZZ               | United Kingdom of Great Britain and Northern Ireland |
| A8A-A8Z <sup>1)</sup> | Liberia (Republic of)                                |                       |  |
| A9A-A9Z <sup>1)</sup> | Bahrain (State of)                                   | NAA-NZZ               | United States of America                             |
| BAA-BZZ               | China (People's Republic of)                         | OAA-OCZ               | Peru   |
| CAA-CEZ               | Chile  | ODA-ODZ               | Lebanon  |
| CFA-CKZ               | Canada   | OEA-OEZ               | Austria  |
| CLA-CMZ               | Cuba   | OFA-OJZ               | Finland  |
| CNA-CNZ               | Morocco (Kingdom of)                                 | OKA-OMZ               | Czechoslovak Socialist Republic                      |
| COA-COZ               | Cuba   | ONA-OTZ               | Belgium  |
| CPA-CPZ               | Bolivia (Republic of)                                | OUA-OZZ               | Denmark  |
| CQA-CRZ               | Portugal   | PAA-PIZ               | Netherlands (Kingdom of the)                         |
| CSA-CUZ               | Portugal   | PJA-PJZ               | Netherlands Antilles                                 |
| CVA-CXZ               | Uruguay (Oriental Republic of)                       | PKA-POZ               | Indonesia (Republic of)                              |
| CYA-CZZ               | Canada   | PPA-PYZ               | Brazil (Federative Republic of)                      |
| C2A-C2Z <sup>1)</sup> | Nauru (Republic of)                                  | PZA-PZZ               | Surinam  |
| C3A-C3Z <sup>1)</sup> | Andorra  | P2A-P2Z <sup>1)</sup> | Papua New Guinea                                     |
| C4A-C4Z <sup>1)</sup> | Cyprus (Republic of)                                 | QAA-QZZ               | (Service abbreviations)                              |
| C5A-C5Z <sup>1)</sup> | Gambia (Republic of the)                             | RAA-RZZ               | Union of Soviet Socialist Republics                  |
| C6A-C6Z <sup>1)</sup> | Bahamas (Commonwealth of the)                        | SAA-SMZ               | Sweden   |
| C7A-C7Z <sup>1)</sup> | World Meteorological Organization                    | SNA-SRZ               | Poland (People's Republic of)                        |
| C8A-C9Z <sup>1)</sup> | Mozambique (People's Republic of)                    | SSA-SSM               | Egypt (Arab Republic of)                             |
| DAA-DTZ               | Germany  | SSN-STZ               | Sudan (Democratic Republic of the)                   |
| DUA-DZZ               | Philippines (Republic of the)                        | SUA-SUZ               | Egypt (Arab Republic of)                             |
| D2A-D3Z <sup>1)</sup> | Angola   | SVA-SZZ               | Greece   |
| D4A-D4Z <sup>1)</sup> | Cape Verde (Republic of)                             | S2A-S3Z <sup>1)</sup> | Bangladesh (People's Republic of)                    |
| D5A-D5Z <sup>1)</sup> | Liberia (Republic of)                                | S6A-S6Z <sup>1)</sup> | Singapore (Republic of)                              |
| D6A-D6Z <sup>1)</sup> | Comoros (State of the)                               | TAA-TCZ               | Turkey   |
| EAA-EHZ               | Spain  | TDA-TDZ               | Guatemala  |
| EIA-EJZ               | Ireland  | TEA-TEZ               | Costa Rica   |
| EKA-EKZ               | Union of Soviet Socialist Republics                  | TFA-TFZ               | Iceland  |
| ELA-ELZ               | Liberia (Republic of)                                | TGA-TGZ               | Guatemala  |
| EMA-EOZ               | Union of Soviet Socialist Republics                  | THA-THZ               | France   |
| EPA-EQZ               | Iran   | TIA-TIZ               | Costa Rica   |
| ERA-ERZ               | Union of Soviet Socialist Republics                  | TJA-TJZ <sup>1)</sup> | Cameroon (United Republic of)                        |
| ESA-ESZ               | Estonia  | TKA-TKZ               | France   |
| ETA-ETZ               | Ethiopia   | TLA-TLZ <sup>1)</sup> | Central African Republic                             |
| EUA-EWZ               | Byelorussian Soviet Socialist Republic               | TMA-TMZ               | France   |
| EXA-EZZ               | Union of Soviet Socialist Republics                  | TNA-TNZ <sup>1)</sup> | Congo (People's Republic of the)                     |
| FAA-FZZ               | France   | TOA-TQZ               | France   |
| GAA-GZZ               | United Kingdom of Great Britain and Northern Ireland | TRA-TRZ <sup>1)</sup> | Gabon Republic                                       |
| HAA-HAZ               | Hungarian People's Republic                          | TSA-TSZ <sup>2)</sup> | Tunisia  |
| HBA-HBZ               | Switzerland (Confederation of)                       | TTA-TTZ <sup>1)</sup> | Chad (Republic of the)                               |
| HCA-HDZ               | Ecuador  | TUA-TUZ <sup>1)</sup> | Ivory Coast (Republic of the)                        |
| HEA-HEZ               | Switzerland (Confederation of)                       | TVA-TXZ               | France   |
| HFA-HFZ               | Poland (People's Republic of)                        | TYA-TYZ <sup>1)</sup> | Benin (People's Republic of)                         |
| HGA-HGZ               | Hungarian People's Republic                          | TZA-TZZ <sup>1)</sup> | Mali (Republic of)                                   |
| HHA-HHZ               | Haiti (Republic of)                                  | UAA-UQZ               | Union of Soviet Socialist Republics                  |
| HIA-HIZ               | Dominican Republic                                   | URA-UTZ               | Ukrainian Soviet Socialist Republic                  |
| HJA-HKZ               | Colombia (Republic of)                               | UUA-UZZ               | Union of Soviet Socialist Republics                  |
| HLA-HMZ               | Korea (Republic of)                                  | VAA-VGZ               | Canada   |
| HNA-HNZ               | Iraq (Republic of)                                   | VHA-VNZ               | Australia  |
| HOA-HPZ               | Panama (Republic of)                                 | VOA-VOZ               | Canada   |
| HQA-HRZ               | Honduras (Republic of)                               | VPA-VSZ               | United Kingdom of Great Britain and Northern Ireland |
| HSA-HSZ               | Thailand   | VTA-VWZ               | India (Republic of)                                  |
| HTA-HTZ               | Nicaragua  | VXA-VYZ               | Canada   |
| HUA-HUZ               | El Salvador (Republic of)                            | VZA-VZZ               | Australia  |
| HVA-HVZ               | Vatican City State                                   | WAA-WZZ               | United States of America                             |
| HWA-HYZ               | France   | XAA-XIZ               | Mexico   |
| HZA-HZZ               | Saudi Arabia (Kingdom of)                            | XJA-XOZ               | Canada   |
| H3A-H3Z <sup>1)</sup> | Panama (Republic of)                                 | XPA-XPZ               | Denmark  |
| IAA-IZZ               | Italy and Territories under mandate of UN            | XQA-XRZ               | Chile  |
| JAA-JSZ               | Japan  | XSA-XSZ               | China (People's Republic of)                         |

| Series                |  | Series                |  |
|-----------------------|--|-----------------------|--|
| XTA-XTZ <sup>1)</sup> | Upper Volta (Republic of)                            | 5BA-5BZ <sup>1)</sup> | Cyprus (Republic of)                               |
| XUA-XUZ               | Khmer Republic                                       | 5CA-5GZ               | Morocco (Kingdom of)                               |
| XVA-XVZ               | Viet-Nam (Republic of)                               | 5HA-5IZ <sup>1)</sup> | Tanzania (United Republic of)                      |
| XWA-XWZ               | Lao People's Democratic Republic                     | 5JA-5KZ               | Colombia (Republic of)                             |
| XXA-XXZ               | Portugal   | 5LA-5MZ               | Liberia (Republic of)                              |
| XYA-XZZ               | Burma (Socialist Republic of the Union of)           | 5NA-5OZ <sup>1)</sup> | Nigeria (Federal Republic of)                      |
| YAA-YAZ               | Afghanistan (Republic of)                            | 5PA-5QZ               | Denmark  |
| YBA-YHZ               | Indonesia (Republic of)                              | 5RA-5SZ <sup>1)</sup> | Malagasy Democratic Republic                       |
| YIA-YIZ               | Iraq (Republic of)                                   | 5TA-5TZ <sup>1)</sup> | Mauritania (Islamic Republic of)                   |
| YJA-YJZ               | New Hebrides (Anglo-French Condominium)              | 5UA-5UZ <sup>1)</sup> | Niger (Republic of the)                            |
| YKA-YKZ               | Syrian Arab Republic                                 | 5VA-5VZ <sup>1)</sup> | Togoese Republic                                   |
| YLA-YLZ               | Latvia   | 5WA-5WZ <sup>1)</sup> | Western Samoa                                      |
| YMA-YMZ               | Turkey   | 5XA-5XZ <sup>1)</sup> | Uganda (Republic of)                               |
| YNA-YNZ               | Nicaragua  | 5YA-5ZZ <sup>1)</sup> | Kenya (Republic of)                                |
| YOA-YRZ               | Roumania (Socialist Republic of)                     | 6AA-6BZ               | Egypt (Arab Republic of)                           |
| YSA-YSZ               | El Salvador (Republic of)                            | 6CA-6CZ               | Syrian Arab Republic                               |
| YTA-YUZ               | Yugoslavia (Socialist Federal Republic of)           | 6DA-6JZ               | Mexico   |
| YVA-YYZ               | Venezuela (Republic of)                              | 6KA-6NZ               | Korea (Republic of)                                |
| YZA-YZZ               | Yugoslavia (Socialist Federal Republic of)           | 6OA-6OZ               | Somali Democratic Republic                         |
| ZAA-ZAZ               | Albania (People's Republic of)                       | 6PA-6SZ               | Pakistan   |
| ZBA-ZJZ               | United Kingdom of Great Britain and Northern Ireland | 6TA-6UZ               | Sudan (Democratic Republic of the)                 |
| ZKA-ZMZ               | New Zealand  | 6VA-6WZ <sup>1)</sup> | Senegal (Republic of the)                          |
| ZNA-ZOZ               | United Kingdom of Great Britain and Northern Ireland | 6XA-6XZ <sup>1)</sup> | Malagasy Democratic Republic                       |
| ZPA-ZPZ               | Paraguay (Republic of)                               | 6YA-6YZ <sup>1)</sup> | Jamaica  |
| ZQA-ZQZ               | United Kingdom of Great Britain and Northern Ireland | 6ZA-6ZZ <sup>1)</sup> | Liberia (Republic of)                              |
| ZRA-ZUZ               | South Africa (Republic of)                           | 7AA-7IZ               | Indonesia (Republic of)                            |
| ZVA-ZZZ               | Brazil (Federative Republic of)                      | 7JA-7NZ               | Japan  |
| 2AA-2ZZ               | United Kingdom of Great Britain and Northern Ireland | 7OA-7OZ <sup>1)</sup> | Yemen (People's Democratic Republic of)            |
| 3AA-3AZ               | Monaco   | 7PA-7PZ <sup>1)</sup> | Lesotho (Kingdom of)                               |
| 3BA-3BZ <sup>1)</sup> | Mauritius  | 7QA-7QZ <sup>1)</sup> | Malawi   |
| 3CA-3CZ <sup>1)</sup> | Equatorial Guinea (Republic of the)                  | 7RA-7RZ <sup>1)</sup> | Algeria (Algerian Democratic and Popular Republic) |
| 3DA-3DM <sup>1)</sup> | Swaziland (Kingdom of)                               | 7SA-7SZ               | Sweden   |
| 3DN-3DZ <sup>1)</sup> | Fiji   | 7TA-7YZ <sup>1)</sup> | Algeria (Algerian Democratic and Popular Republic) |
| 3EA-3FZ <sup>1)</sup> | Panama (Republic of)                                 | 7ZA-7ZZ               | Saudi Arabia (Kingdom of)                          |
| 3GA-3GZ               | Chile  | 8AA-8IZ               | Indonesia (Republic of)                            |
| 3HA-3UZ               | China (People's Republic of)                         | 8JA-8NZ               | Japan  |
| 3VA-3VZ               | Tunisia  | 8OA-8OZ <sup>1)</sup> | Botswana (Republic of)                             |
| 3WA-3WZ               | Viet-Nam (Republic of)                               | 8PA-8PZ <sup>1)</sup> | Barbados   |
| 3XA-3XZ               | Guinea (Republic of)                                 | 8QA-8QZ <sup>1)</sup> | Maldives (Republic of)                             |
| 3YA-3YZ               | Norway   | 8RA-8RZ <sup>1)</sup> | Guyana   |
| 3ZA-3ZZ               | Poland (People's Republic of)                        | 8SA-8SZ               | Sweden   |
| 4AA-4CZ               | Mexico   | 8TA-8YZ               | India (Republic of)                                |
| 4DA-4IZ               | Philippines (Republic of the)                        | 8ZA-8ZZ               | Saudi Arabia (Kingdom of)                          |
| 4JA-4LZ               | Union of Soviet Socialist Republics                  | 9AA-9AZ               | San Marino (Republic of)                           |
| 4MA-4MZ               | Venezuela (Republic of)                              | 9BA-9DZ               | Iran   |
| 4NA-4OZ               | Yugoslavia (Socialist Federal Republic of)           | 9EA-9FZ               | Ethiopia   |
| 4PA-4SZ               | Sri Lanka (Ceylon) (Republic of)                     | 9GA-9GZ               | Ghana  |
| 4TA-4TZ               | Peru   | 9HA-9HZ <sup>1)</sup> | Malta  |
| 4UA-4UZ               | United Nations (UN)                                  | 9IA-9JZ <sup>1)</sup> | Zambia (Republic of)                               |
| 4VA-4VZ               | Haiti (Republic of)                                  | 9KA-9KZ               | Kuwait (State of)                                  |
| 4WA-4WZ               | Yemen Arab Republic                                  | 9LA-9LZ <sup>1)</sup> | Sierra Leone                                       |
| 4XA-4XZ               | Israel (State of)                                    | 9MA-9MZ               | Malaysia   |
| 4YA-4YZ               | International Civil Aviation Organization (ICAO)     | 9NA-9NZ               | Nepal  |
| 4ZA-4ZZ               | Israel (State of)                                    | 9OA-9TZ               | Zaire (Republic of)                                |
| 5AA-5AZ               | Libyan Arab Republic                                 | 9UA-9UZ <sup>1)</sup> | Burundi (Republic of)                              |
|                       |  | 9VA-9VZ <sup>1)</sup> | Singapore (Republic of)                            |
|                       |  | 9WA-9WZ <sup>1)</sup> | Malaysia   |
|                       |  | 9XA-9XZ <sup>1)</sup> | Rwanda (Republic of)                               |
|                       |  | 9YA-9ZZ <sup>1)</sup> | Trinidad and Tobago                                |

<sup>1)</sup> Provisional allocation, in accordance with No. 749 of the Radio Regulations (Edition of 1976).

(ii) Information provided in the List of Ship Stations. A sample page of the List of Ship Stations is presented in table 2. While the List fulfils the purposes for which it was designed, it is not fully satisfactory for use as a Ship's Name Code in that it does not indicate the net registered tonnage (or deadweight tonnage). The only information concerning the ship itself is presented in column 5, where the general and individual classification of the ship is shown using the code reproduced in table 3. This code, in turn, has serious defects; for example, separate codes are given for Bulk carrier, Cargo ship, Dry cargo, General cargo, Grain carrier, Liner, Tramp, etc., so that the assignment of a single code is at best arbitrary. The combination of the defects of the individual classification code plus the absence of information on the tonnage of the ship is especially serious in view of the duplication of ship names within the List, a problem which is examined below.

(iii) International maintenance of the SCS list. Despite the formidable problems of maintaining a list having more than 65,000 individual codes, the maintenance provided by the ITU at the international level is superb. The December 1975 edition, for example, differs from that published in March 1975 by over 31,000 new, amended or cancelled lines of information. Nevertheless, the information published by the ITU is provided wholly by national administration, so the international list can only be as up-to-date and accurate as the data supplied.

(iv) National maintenance of the SCS list. A cursory examination of the List of Ship Stations shows that maintenance of Ship Call Signs is deficient at the national level. An immediately obvious problem, for example, is that there are thousands of repeated ships' names in the List: considering only the letter "A", there are 152 repeated names, comprising 433 vessels, in ten countries of registry (see appendix A).

When repeated names are analysed in more detail, important differences can be found between the List of Ship Stations and Lloyd's Register of Ships (see appendix B), especially the inclusion of ships in the List which are not included in Lloyd's Register. While some of the differences can be attributed to the fact that Lloyd's Register

Table 2

PARTICULARS OF SHIP STATIONS

| Name of ship   | Call sign                                 | Selective call number | Country           | Auxiliary installations | Class of ship          | Nature of service | Hours of service     | Telegraph transmission | Telephone transmission | Ship charge per word | Ship charge three minutes | Remarks  |
|--|---|-----------------------|-------------------|-------------------------|------------------------|-------------------|----------------------|------------------------|------------------------|----------------------|---------------------------|--|
| 1  | 2   | 3                     | 4                 | 5                       | 6                      | 7                 | 8                    | 9                      | 10                     | 11                   | 12                        |  |
| ALICE-C.<br>ALICE D.<br>ALICE J.                                     | C5B200B<br>HO2849<br>W2H666B              |                       | BAH<br>PNR<br>USA |                         | Pl<br>Yat<br>Tag<br>Ca | OP                | HX<br>H24<br>HX      | T<br>TUV               |                        | 40 960               | F                         | *SMITH NEWMAN 24827 PURITAN<br>DETROIT MICH48239<br>*ALICE M-III MAMERTO MANADAG                         |
| ALICE M-3<br>ALICE MARIA PINA  | DUYI<br>IJLI                              |                       | PHL               |                         | Yat<br>Ca              | OP                | HX<br>HX             | Z<br>U                 |                        | 20 1<br>40 2         | B2                        |  |
| ALICHER NAVOI<br>ALICHO<br>ALICIA/MCAI                               | UOYN<br>IIMS<br>HCAI                      |                       | URS<br>URS<br>FOA | (1)                     | Ca<br>Yat<br>Ph        | OP                | H8<br>HX<br>H6       | XZ<br>Y<br>T           |                        | 40 1<br>40 2         | B2                        |  |
| ALICIA/HO2788<br>ALICUDI/IADA<br>ALICUDI/IPND                        | HO2788<br>IADA<br>IPND                    |                       | PNR               |                         | Pa<br>Ca<br>Ca         | CP                | HX                   |                        | X                      | 1<br>2               | C128<br>B2                |  |
| ALIDADE/FADE<br>ALIDADE/TMKE<br>ALI DAYI                             | FADE<br>TMKE<br>TCAI                      |                       | F<br>TUR          |                         | NS<br>G<br>Ca<br>Ca    | OP                | HX<br>HX<br>HX       |                        |                        | 12<br>3              |                           | EX TCAF2   |
| ALIELBA<br>ALIGIGLIO<br>ALIGOK                                       | IKIF<br>OYND<br>OYNH                      |                       |                   | (1)                     | Pa<br>Ca               | OP                | HX<br>HX             |                        |                        | 3<br>1               | B3<br>B3<br>H1            |  |
| ALIGRADO<br>ALISCHIA<br>ALIKI/SVQC                                   | INMS<br>INBF<br>SVQC                      |                       |                   | (1)                     | Pa<br>Ca               | OP                | HX<br>HX             |                        | XZ                     | 3<br>3               | B2<br>B3<br>400 3         | EX FRECCIA AZZURRA DEL SUD<br>POTHITOS SHIPPING CO.<br>EX CHIOS RELLE<br>J.KIPSANIS                      |
| ALIKI/SV2070<br>ALIKI J.P.   | SV2070<br>SYVI                            |                       | GRC<br>GRC        |                         | Pa<br>Ca               | OT                | H8<br>H8             |                        | XZ                     | 3<br>3               | 400 2<br>400 2            |  |
| ALIKRATOR<br>ALILAS<br>ALILAURO PRIMO<br>ALILAURO SECONDO<br>ALILITA | 86JG<br>HO2334<br>IMAF<br>LOAP<br>WZY2692 |                       | GRC<br>PNR<br>USA | (1)                     | Ca<br>Yat<br>Pa<br>Ca  | OP                | H8<br>HX<br>HX<br>HX | XZ<br>T<br>T           |                        | 3<br>3<br>2          | 400 3<br>B2<br>B2<br>F    | EX GIANDOLA<br>*MEIER WILLIAM 400 EAST ELM ST<br>MASON MICH48854   |
| ALIMURI<br>ALINA/ALINA<br>ALINA/SV3288                               | IJLP<br>SV3288                            |                       | POL<br>GRC        |                         | Tug<br>Cab<br>Fbt      | CP                | HX<br>HX<br>HX       |                        |                        | 2                    | B2<br>A1<br>400 3         | *ALINA<br>EX ALINA/SYAZ  |
| ALINAPOLI<br>ALINDA<br>ALINE   | IJJB<br>QBZU<br>IXJX                      |                       | G                 | (1)                     | Pa<br>Ca<br>Yat        | CP                | HX<br>H8<br>HX       |                        | XZ                     | 3<br>8<br>3          | B5<br>A8<br>B3            | *ALINKA  |
| ALINKA<br>ALINGATH<br>ALINTA   | YIAP<br>ELYQ                              |                       | POL<br>IRG<br>LBR | (1)                     | Mob<br>Ste<br>Ck       | CR                | HX<br>HX<br>H8       |                        | XZ                     | 2<br>1               | A1<br>LI                  |  |
| ALIOCHA<br>ALLOT<br>ALIOTH   | OSYT<br>USSN<br>6B2394                    |                       | BEL<br>URS<br>CYP | (1)                     | Yat<br>Ca<br>Ca        | CR                | HX<br>H8<br>H8       |                        | XZ                     | 1<br>3               | A3                        |  |
| ALIPROCIDA<br>ALIS<br>ALISA  | ILFP<br>IYJE<br>GRIE                      |                       |                   | (1)                     | Pa<br>Yat<br>Ca        | CP                | HX<br>HX<br>H8       |                        | XZ                     | 3<br>2<br>0          | B3<br>B2<br>A3            | EX FIR   |
| ALISED/<br>ALISED/IPDG<br>ALISIA                                     | IPDG                                      |                       | POL               |                         | Yat<br>Ca<br>Mtb       | CP                | HX<br>HX<br>HX       |                        |                        | 2                    | B2<br>B2<br>A1            | *T U8249.2 KHZ<br>*ALISIA  |
| ALISIOS<br>ALISORRENTO<br>ALISPAN PRIMO                              | OAPT<br>IOKA<br>ITNI                      |                       | PRU               | (1)                     | Ca<br>Pa<br>Pa         | CP                | HX<br>HX<br>HX       |                        | XZ                     | 3<br>3               | B3<br>B3                  |  |
| ALISPAN SECONDO<br>ALISPAN TERZO<br>ALISSIA                          | ITNX<br>ITNK<br>IX2462                    |                       |                   | (1)                     | Pa<br>Pa<br>Yat        | CP                | HX<br>HX<br>HX       |                        |                        | 3<br>3<br>2          | B3<br>B3<br>B2            |  |
| ALISTAIR HARDY<br>ALITRIC<br>ALITRIESTE                              | VR90<br>5BLE<br>IPWF                      |                       | HKG<br>CYP        | (1)                     | Ca<br>Ca<br>Pa         | CP                | HX<br>H8<br>HX       | XZ<br>XYZ              |                        | 2<br>2               | A1<br>B2                  | EX ALILAURO TERZO  |
| ALIVESUVIO<br>ALI WAY<br>ALIVA                                       | ILEV<br>IXKI<br>4GOF                      |                       |                   | (1)                     | Pa<br>Yat<br>Tug       | CP                | HX<br>HX<br>H24      |                        | XYZ                    | 3<br>3               | B3<br>B3                  |  |
| ALIZE/FUZQ<br>ALIZE/IXDW<br>AL JABIRIAH                              | FUZQ<br>IXDW<br>BKCO                      |                       | F<br>WT           | (1)                     | Vdt<br>Yat             | CP                | HX<br>HX<br>H8       |                        | XZ                     | 3<br>2               | B2                        |  |
| ALJAR<br>ALJER 4   | EDYT<br>WY4333                            |                       | E<br>USA          |                         | MM<br>Ca<br>Ca         | CR                | HX<br>HX             |                        |                        |                      | F #                       | *ALJER IV #GOODMAN JEROME,<br>9300 WEST BAY HARBOR<br>BAY HARBOR ISLAN FLA 33164                         |
| ALJEZUR<br>AL JUBAIL 2   | CSMM<br>9V2474                            |                       | POR<br>SNG        | (1)                     | FV<br>Ph<br>Ca         | CP                | HX<br>H8             |                        |                        | 13<br>263            |                           | *AL JUBAIL II  |
| ALJURAN<br>ALK/DAG263<br>ALK/DBHM                                    | C8L2027<br>DAG263<br>DBHM                 |                       | BAN<br>D          |                         | PL<br>Yat<br>Tug       | CP                | HX<br>HX<br>HX       |                        |                        | 1                    | C1<br>C1                  | GEORG FEHNER,LEMWERDER I.O<br>WASSER-&SCHIFFFAHRTSAMT LUEBECK<br>LUEBECK<br>FRIEDRICH WOLTER,DROCHTERSEN |
| ALK/DFTY<br>ALK/IIAC   | DFTY<br>IIAC                              |                       | D                 |                         | MM<br>Ca<br>Yat        | CP                | HX<br>HX             |                        |                        | 1<br>2               | C1<br>B2                  |  |
| ALK/LAQF<br>ALK/PAHX<br>ALKA/DKAN                                    | LAQF<br>PAHX<br>DKAN                      |                       | NOR<br>ROL<br>D   | BC1                     | MM<br>NS<br>PL         | Ca<br>G<br>Yat    | CP                   | HX                     | XZ                     | 1                    | C1                        |  |
| ALKA/LZRI<br>ALKA/YTDA<br>AL-KADISIAH                                | LZRI<br>YTDA<br>9KCE                      |                       | SUL<br>UG<br>KWT  | (1)                     | Ph<br>Ca               | CP                | HX<br>HX<br>H8       | XZ<br>XZ               |                        | 2<br>21              |                           |  |
| ALKAID/HHZR<br>ALKAID/HOB469<br>ALKAID 2                             | HHZR<br>HOB469<br>HP2088                  |                       | HVI<br>PNR<br>PNR |                         | Ca<br>Ca<br>Yat        | CP                | HX<br>HX             |                        |                        | 879<br>#             |                           | *ALKAID II # 1200  |
| ALKAIOS<br>ALKENE  | SKIH<br>DVGO                              |                       | GRC<br>PHL        | (1)                     | Ch<br>Ca               | OT                | H8<br>H24            | XZ                     |                        | 13                   | 400 3                     |  |

Table 3

SYMBOLS WHICH DESIGNATE CLASSES OF SHIPS

General classifications

|    |                         |    |                     |
|----|-------------------------|----|---------------------|
| FV | Ship of a fishing fleet | NS | Naval/Military-ship |
| GV | Official service ship   | PL | Pleasure ship       |
| MM | Merchant ship           | SV | Rescue vessel       |
| NF | River vessel            |    |                     |

Individual classifications

|     |                     |     |                       |
|-----|---------------------|-----|-----------------------|
| Acv | Air-cushion vehicle | Hyd | Hydrographic ship     |
| Aux | Auxiliary ship      | Ice | Ice breaker           |
| Avi | Despatch-vessel     | Ins | Inspection ship       |
| Bar | Lighter             | Lan | Lobster ship          |
| Bk  | Bulk carrier        | Lou | Lugger                |
| Rln | Whaler              | Mor | Banker                |
| Bis | Booy ship           | Mou | Mine-layer            |
| Bta | Factory ship        | Mth | Motor boat            |
| Ca  | Cargo ship          | Nvp | Naviplane             |
| Cab | Coaster             | Oil | Oil tanker            |
| Cbl | Cable ship          | Osc | Oceanographic ship    |
| Cgt | Coast-guard         | Osv | Ocean-station vessel  |
| Cha | Barge               | Pa  | Passenger ship        |
| Chr | Trawler             | Paq | Liner                 |
| Cit | Tanker              | Ph  | Fishing vessel        |
| Coa | Collier             | Pha | Lightship             |
| Con | Container ship      | Phr | Lighthouse tender     |
| Cor | Corvette            | Phs | Fishing-guard         |
| Cro | Cruiser             | Plc | Platform              |
| Ctr | Cutter              | Plt | Pilot tender          |
| Des | Destroyer           | Pmp | Firefloat             |
| Dmn | Minesweeper         | Pmx | Cargo and passenger   |
| Drg | Dredger             | Pon | Pontoon               |
| Dry | Dry cargo           | Pta | Aircraft carrier      |
| Dun | Ketch               | Pth | Helicopter carrier    |
| Eco | Training ship       | Ram | Salvage ship          |
| Esc | Escort ship         | Rav | Supply vessel         |
| Exp | Survey ship         | Roc | Rock breaker          |
|     | Research ship       | Slo | Sloop                 |
| Fbt | Ferry               | Smn | Submarine             |
| Fps | Fast patrol ship    | Srv | Patrol ship           |
| Frg | Reefer              | Tho | Tunny ship            |
| Frm | Weather ship        | Tpg | Liquefied gas carrier |
| Fri | Frigate             | Tpo | Ore carrier           |
| Fru | Fruit carrier       | Tpt | Transport             |
| Gen | General cargo       | Tra | Tramp                 |
| Gol | Schooner            | Tug | Tug                   |
| Gre | Grain carrier       | Tvh | Vehicle carrier       |
| Grf | Floating crane      | Vdo | Launch                |
| Gs  | Warship             | Vdt | Hydrofoil             |
| Hop | Hospital ship       | Vlr | Sailing ship          |
|     |                     | Yat | Yacht                 |

includes only merchant ships of more than 100 gross registered tons, it is clear that ships have not been deleted opportunely from the List of Ship Stations when they have been transferred to another flag of registry or have been withdrawn from service. Table 4 summarizes the results of the analysis of repeated names presented in appendices A and B.

#### 4. Proposal for a Ship's Name Code

A number of conclusions about existing codes for ships emerge from the description in the preceding section. In the first place, the proposed Ship's Name Code should be based on the Ship's Call Sign, both because all merchant ships have an SCS and because the ITU provides excellent maintenance at the international level through the periodic publication of the List of Ship Stations. In the second place, the norms presently used for assigning call signs are not appropriate for a universal Ship's Name Code, in view of the confusing manner in which the country of registry is identified and the lack of any identification of the ship's characteristics within the code itself. Third, maintenance of the list of call signs at the national level is deficient, primarily because national authorities do not always know when a particular call sign should be deleted, or do not notify the ITU of deletions. Finally, the SCS is presumably more difficult to maintain at the national level than the Ship's Official Number, because many countries require the payment of an annual fee for a ship to maintain its registry.

On the basis of these four conclusions, it is proposed that the ITU adopt new norms for assigning a Ship's Call Sign which would make the SCS more appropriate for use as a Ship's Name Code. In addition, it is proposed that the national authorities who assign the SCS in accord with the norms of the ITU utilize the Ship's Official Number as part of the SCS. Finally, it is proposed that the national authorities who assign the Ship's Official Number adopt new norms at the national level which would make this number more appropriate for use as part of the SCS. If this three-part proposal were adopted, a single universal code would exist which would satisfy simultaneously

Table 4.

Comparison of repeated names in ITU List of Ship Stations  
with Lloyd's Register of Ships 1976-77

| <u>Country</u> | <u>Repeated names</u> |                | <u>Nº of ships with</u> |                | <u>Names repeated in</u><br><u>ITU List not ment-</u><br><u>ioned in Lloyd's</u> | <u>Names repeated in</u><br><u>ITU List not repeated</u><br><u>in Lloyd's</u> |
|----------------|-----------------------|----------------|-------------------------|----------------|--|---|
|                | <u>ITU</u>            | <u>Lloyd's</u> | <u>ITU</u>              | <u>Lloyd's</u> |  |   |
| Greece         | 64                    | 37             | 214                     | 106            | 10   | 17  |
| U.S.A.         | 42                    | -              | 125                     | -              | 38   | 4   |
| U.S.S.R.       | 19                    | 7              | 40                      | 16             | 6  | 6   |
| Argentina      | 8                     | -              | 16                      | -              | 6  | 2   |
| Germany (F.R.) | 7                     | 4              | 16                      | 8              | 1  | 2   |
| Japan          | 6                     | 6              | 12                      | 12             | -  | -   |
| Panama         | 2                     | -              | 4                       | -              | -  | 2   |
| Netherlands    | 1                     | 1              | 2                       | 2              | -  | -   |
| Italy          | 1                     | -              | 2                       | -              | -  | 1   |
| Korea (Rep.of) | 1                     | -              | 2                       | -              | -  | 1   |
|                | <u>151</u>            | <u>55</u>      | <u>433</u>              | <u>144</u>     | <u>61</u>  | <u>35</u>   |

Source: Prepared by OAS-CEPAL Maritime Transport Programme on the basis of ITU List of Ship Stations, 16th edition, Geneva, 1976, and Lloyd's Register of Shipping, Register of Ships 1976-77, London, 1976.



commercial and administrative requirements at both the national and international levels. The benefits of such a possibility are obviously sufficient to justify concerted action for its attainment.

The proposed code consists of seven - or possibly eight - alphanumeric characters. As in the code described above in section 2, the first two characters correspond to the ISO Alpha-2 Country Code (presented in appendix C) and indicates the country of registry of the ship (which presumably coincides with the country with regulatory authority over the ship's station), while the third character is a digit indicating the general characteristics of the ship. The remaining four - or possibly five - characters are taken from the Ship's Official Number. In the case of countries whose present Ship's Official Number has the number of characters required to complete the SCS, the Official Number is incorporated without change. If the present Ship's Official Number has fewer than the required number of characters, it is simply prefixed by dummy characters. If the Ship's Official Number exceeds the required length, characters are truncated as necessary, provided that duplication of the entire three-part code does not occur.

The proposed three-part Universal Ship Code (USC) will not be easy to implement, and it is useful to anticipate some of the objections which may arise.

(a) Technical feasibility of the proposed structure for the Ship's Call Sign and problems of transition: The present SCS has up to seven alphanumeric characters and the proposed new USC has the same number, or alternatively eight characters. During the transition period, it would be necessary to publish the List of Ship Stations showing both the SCS and the USC, but there is no possibility of confusing the two because at present no Ship's Call Sign begins with two letters followed by a digit. Although there are amateur stations whose call letters have the same structure as that proposed for the USC, these stations do not operate on the frequencies reserved for ships' radio traffic.

(b) Cost of changing the structure of the SCS: The proposed new USC implies a complete change in the call sign of every ship's station, which would require approval by a conference of the ITU. Nevertheless,

/the extensive

the extensive changes introduced in each edition of the List of Ship Stations have already been noted and present no special problems for the ITU. Most importantly, the adoption of the SCS as a Ship's Name Code represents an entirely new application with a probable use at least as great as its present use for radio purposes. Under these circumstances, the time is opportune for modifying the SCS, especially since the proposed new structure will also better serve the objectives of the ITU itself.

(c) Co-ordination among national authorities: For the three-part code to be implemented in its entirety, a number of countries will have to modify the norms used to assign the Ship's Official Number. In addition, co-ordination at the national level between authorities who assign this number and those who assign the SCS might well be difficult. It should be remembered, however, that any facilitation efforts requires co-ordination and a willingness of authorities to modify their own requirements in order to permit greater benefits for their country as a whole. It is expected that since in many cases the entire existing Ship's Official Number can be incorporated without change into the USC, serious problems will not arise. In any case, if the norms for the Ship's Official Number cannot be modified, the authorities who assign the USC can utilize as much of the official number as possible when making their assignment. For example, if the Ship's Official Number is BCAZ7538, the authorities can utilize either BCAZ or 7538 after the three initial characters to complete a USC of seven characters.

Air transport, the most modern mode of transportation, has always given high priority to facilitation, as both operators and regulators are fully conscious of its benefits. One of the results of this attitude was the adoption, many years ago, of a single identification number for all civil aircraft which serves simultaneously as the plane's national registry number and the plane's radio call sign for communications between aircraft and airports. This important precedent shows the feasibility of what is being proposed as a Universal Ship Code.

Appendix A

Names of ships repeated <sup>a/</sup> within the same country in ITU's List of Ship Stations

| <u>Page</u> | <u>Repeated name</u>  | <u>Country</u> | <u>Nº of ships with same name</u> | <u>Classes of ships <sup>b/</sup></u> |
|-------------|-----------------------|----------------|-----------------------------------|---------------------------------------|
| <u>A</u>    |                       |                |                                   |                                       |
| 4           | ABRAXAS (*)           | USA            | 4                                 | (4 Ca)                                |
| 4           | ACHILLEAS (**)        | Greece         | 2                                 | (2 Ca)                                |
| 5           | ACROPOLIS             | Greece         | 2                                 | (1 Ca, 1 Pa)                          |
| 5           | ADAMAS                | Greece         | 2                                 | (2 Ca)                                |
| 6           | ADIOS (*)             | USA            | 2                                 | (2 Ca)                                |
| 6           | ADLER (**)            | USSR           | 2                                 | (2 Ca)                                |
| 6           | ADLER 2 (*)           | Germany (F.R.) | 2                                 | (2 Pa)                                |
| 6           | ADMIRAL (*)           | USA            | 2                                 | (2 Ca)                                |
| 6           | ADONDE (*)            | USA            | 3                                 | (3 Ca)                                |
| 6           | ADONIS                | Greece         | 2                                 | (1 Ca, 1 Pa)                          |
| 7           | ADVENTURE (*)         | USA            | 3                                 | (3 Ca)                                |
| 7           | ADVENTURER (*)        | USA            | 2                                 | (2 Ca)                                |
| 7           | AEGEON (**)           | Greece         | 2                                 | (1 Cit, 1 Pa)                         |
| 7           | AEGINA                | Greece         | 2                                 | (2 Pa)                                |
| 8           | AELOS (**)            | Greece         | 2                                 | (1 Ca, 1 Pa)                          |
| 8           | AETOS (**)            | Greece         | 4                                 | (2 Ca, 2 Pa)                          |
| 9           | AFRODITI (**)         | Greece         | 3                                 | (2 Ca, 1 Cit)                         |
| 9           | AFTER HOURS (*)       | USA            | 2                                 | (2 Ca)                                |
| 9           | AGAMENNON (**)        | Greece         | 2                                 | (1 Ca, 1 Pa)                          |
| 9           | AGAMENNON (*)         | USA            | 2                                 | (2 Ca)                                |
| 9           | AGAPITOS 1 (**)       | Greece         | 2                                 | (1 Pa, 1 Cit)                         |
| 9           | AGELIKI (*)           | Greece         | 5                                 | (4 Ca, 1 Frg)                         |
| 9           | AGHIA IRINI (*)       | Greece         | 2                                 | (2 Ca)                                |
| 10          | AGHIA MARINA          | Greece         | 6                                 | (4 Ca, 2 Pa)                          |
| 10          | AGHIA TRIAS           | Greece         | 5                                 | (3 Ca, 1 Cit)                         |
| 10          | AGHIA VARVARA         | Greece         | 4                                 | (2 Ca, 1 Cit, 1 Pa)                   |
| 10          | AGHIOI ANARGYRI (**)  | Greece         | 5                                 | (3 Ca, 3 Pa)                          |
| 10          | AGHIOS ANDREAS (**)   | Greece         | 3                                 | (2 Ca, 1 Pa)                          |
| 10          | AGHIOS DIMITRIOS (*)  | Greece         | 4                                 | (2 Ca, 1 Cit, 1 Pa)                   |
| 10          | AGHIOS DIONYSIOS (**) | Greece         | 2                                 | (1 Ca, 1 Pa)                          |
| 10          | AGHIOS FANOURIOS (**) | Greece         | 3                                 | (3 Ca)                                |

a/ Includes only merchant ships; excludes fishing vessels, naval-military ships, pleasure vessels, etc.

b/ Ca = cargo ship; Cab = coaster; Cit = tanker; Con = container ship; Frg = reefer; Pa = passenger ship; Tpo = ore carrier.

(\*) The name does not appear in Lloyd's Register of Ships 1976-77 as a national merchant ship.

(\*\*) The name is not repeated within the same country for a merchant ship in Lloyd's Register of Ships 1976-77.

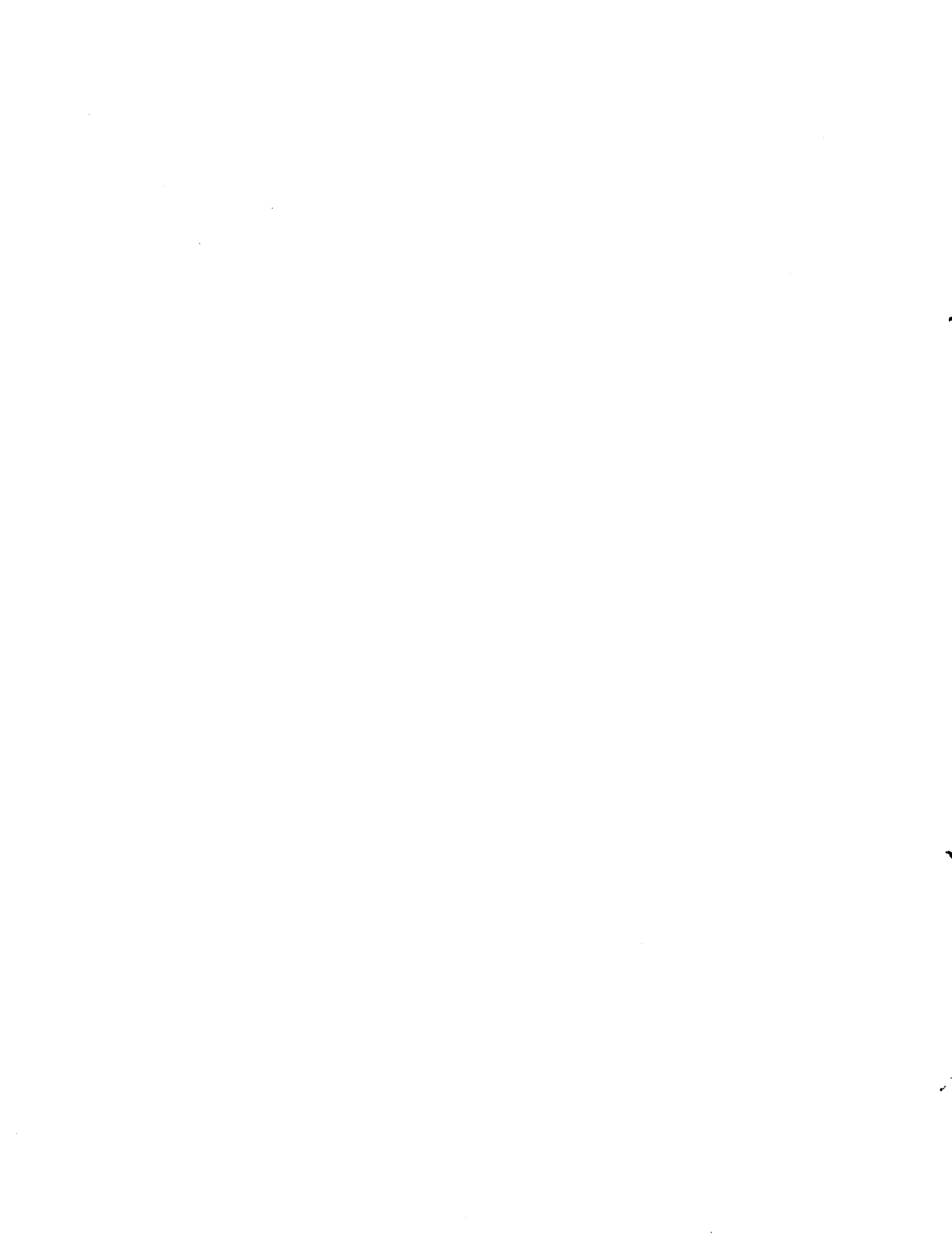
| <u>Age</u> | <u>Repeated name</u>    | <u>Country</u> | <u>N° of ships with same name</u> | <u>Classes of ships</u>   |
|------------|-------------------------|----------------|-----------------------------------|---------------------------|
| 0/11       | AGHIOS GEORGIOS         | Greece         | 12                                | (2 Ca, 1 Pa), 1 Cit, 1 Fr |
| 11         | AGHIOS GEORGIS (*)      | Greece         | 2                                 | (1 Ca, 1 Pa)              |
| 11         | AGHIOS GERASIMOS        | Greece         | 7                                 | (3 Ca, 4 Pa)              |
| 11         | AGHIOS IOANNIS (*)      | Greece         | 3                                 | (2 Ca, 1 Pa)              |
| 11         | AGHIOS KONSTANTINOS (*) | Greece         | 3                                 | (3 Pa)                    |
| 11         | AGHIOS NEKTARIOS (**)   | Greece         | 2                                 | (1 Ca, 1 Pa)              |
| 1/12       | AGHIOS NICOLAOS         | Greece         | 20                                | (12 Ca, 8 Pa)             |
| 12         | AGHIOS SPYRIDON         | Greece         | 4                                 | (4 Ca)                    |
| 13         | AIONE (*)               | USSR           | 2                                 | (2 Ca)                    |
| 14         | AISBERG (*)             | USSR           | 2                                 | (2 Ca)                    |
| 16         | ALASKA MARU             | Japan          | 2                                 | (2 Ca)                    |
| 16         | ALASKAN (**)            | USA            | 2                                 | (2 Ca)                    |
| 16         | ALBATROS (*)            | ARG            | 2                                 | (2 Ca)                    |
| 17         | ALBATROSS (*)           | USA            | 3                                 | (3 Ca)                    |
| 18         | ALCYONE (*)             | USA            | 2                                 | (2 Ca)                    |
| 18         | ALEKSANDROVSK           | USSR           | 2                                 | (2 Ca)                    |
| 19         | ALEXANDROS              | Greece         | 2                                 | (1 Ca, 1 Pa)              |
| 20         | ALFINE 2 (*)            | ARG            | 2                                 | (2 Ca)                    |
| 21         | ALIKI (**)              | Greece         | 2                                 | (1 Ca, 1 Pa)              |
| 21         | ALKYON                  | Greece         | 4                                 | (3 Ca, 1 Cit)             |
| 22         | ALLEGRO (*)             | USA            | 3                                 | (3 Ca)                    |
| 22         | ALL HOURS (*)           | USA            | 2                                 | (2 Ca)                    |
| 22         | ALMIRANTE (*)           | ARG            | 2                                 | (2 Ca)                    |
| 23         | ALOHA (*)               | USA            | 4                                 | (4 Ca)                    |
| 24         | ALTAI (*)               | USSR           | 2                                 | (2 Ca)                    |
| 24         | ALTAIR (*)              | USA            | 2                                 | (2 Ca)                    |
| 24         | ALTAIR (**)             | USSR           | 2                                 | (2 Ca)                    |
| 24         | ALTE LIEBE (**)         | Germany (F.R.) | 2                                 | (2 Pa)                    |
| 25         | AMAZON MARU             | Japan          | 2                                 | (2 Ca)                    |
| 26         | AMBARCHIK               | USSR           | 2                                 | (2 Ca)                    |
| 26         | AMELAND                 | Hol.           | 2                                 | (1 Ca, 1 Cit)             |
| 26         | AMERICAN DELTA (**)     | USA            | 2                                 | (2 Ca)                    |
| 26         | AMERICAN EAGLE (**)     | USA            | 3                                 | (3 Ca)                    |
| 27         | AMFITRITI (**)          | Greece         | 2                                 | (1 Cit, 1 Fr)             |
| 27         | AMGA (**)               | USSR           | 2                                 | (2 Ca)                    |
| 27         | AMIGO (*)               | USA            | 2                                 | (2 Ca)                    |
| 28         | AMOURSK (*)             | USSR           | 2                                 | (2 Ca)                    |
| 29         | ANASTASIA               | Greece         | 4                                 | (4 Ca)                    |

| <u>Page</u> | <u>Repeated name</u> | <u>Country</u> | <u>Nº of ships with same name</u> | <u>Classes of ships</u> |
|-------------|----------------------|----------------|-----------------------------------|-------------------------|
| 29          | ANATOLI              | Greece         | 2                                 | (1 Ca, 1 Cit)           |
| 30          | ANDIAMO (*)          | USA            | 3                                 | (3 Ca)                  |
| 30          | ANDREA               | Germany (F.R.) | 4                                 | (4 Ca)                  |
| 31          | ANEMIONE (*)         | USA            | 2                                 | (2 Ca)                  |
| 32          | ANGLIA               | Germany (F.R.) | 2                                 | (2 Ca)                  |
| 32          | ANITA                | Germany (F.R.) | 2                                 | (1 Ca, 1 Cit)           |
| 32          | ANITA (*)            | ARG            | 2                                 | (2 Ca)                  |
| 33          | ANNA                 | Greece         | 4                                 | (4 Ca)                  |
| 33          | ANNA C (**)          | Italy          | 2                                 | (1 Ca, 1 Pa)            |
| 33          | ANNA MARIA (*)       | Greece         | 6                                 | (4 Ca, 2 Pa)            |
| 34          | ANNE (*)             | USA            | 2                                 | (2 Ca)                  |
| 34          | ANNIKA (**)          | Germany (F.R.) | 2                                 | (1 Ca, 1 Cit)           |
| 35          | ANDRE (*)            | USA            | 2                                 | (2 Ca)                  |
| 35          | ANTARES              | Germany (F.R.) | 2                                 | (2 Ca)                  |
| 35          | ANTARES (*)          | USA            | 3                                 | (3 Ca)                  |
| 35          | ANTIGONI             | Greece         | 3                                 | (2 Ca, 1 Cit)           |
| 36          | ANTONIOS             | Greece         | 3                                 | (3 Ca)                  |
| 36          | ANTONIS (*)          | Greece         | 2                                 | (2 Ca)                  |
| 37          | APACHE (*)           | USA            | 2                                 | (2 Ca)                  |
| 37          | APOGEE (*)           | USA            | 7                                 | (7 Ca)                  |
| 37          | APOLLO (**)          | Panama         | 2                                 | (1 Ca, 1 Pa)            |
| 37          | APOLLON              | Greece         | 3                                 | (2 Ca, 1 Pa)            |
| 37          | APOLLONIA            | Greece         | 4                                 | (3 Ca, 1 Pa)            |
| 38          | APOSTOLOS            | Greece         | 2                                 | (2 Ca)                  |
| 38          | APRES SKI (*)        | USA            | 2                                 | (2 Ca)                  |
| 38/39       | AQUARIUS (*)         | USA            | 18                                | (18 Ca)                 |
| 39          | AQUATIC EXPLORER (*) | USA            | 2                                 | (2 Ca)                  |
| 39          | AQUILA (*)           | USA            | 3                                 | (3 Ca)                  |
| 39          | ARAGVI (**)          | USSR           | 2                                 | (2 Ca)                  |
| 40          | ARAWAK (*)           | USA            | 3                                 | (3 Ca)                  |
| 40          | ARCADIA (*)          | USA            | 2                                 | (2 Ca)                  |
| 40          | ARCHANGELOS          | Greece         | 3                                 | (3 Ca)                  |
| 41          | ARCTURIUS (*)        | USA            | 2                                 | (2 Ca)                  |
| 41          | ARDATOV              | USSR           | 2                                 | (2 Ca)                  |
| 41          | ARGENTINA (*)        | ARG            | 3                                 | (2 Ca, 1 Pa)            |
| 42          | ARGO (*)             | USA            | 4                                 | (4 Ca)                  |
| 42          | ARGO                 | Greece         | 2                                 | (1 Ca, 1 Cit)           |
| 42          | ARGONAFTIS           | Greece         | 2                                 | (1 Ca, 1 Pa)            |

| <u>Page</u> | <u>Repeated name</u> | <u>Country</u> | <u>Nº of ships with same name</u> | <u>Classes of ships</u> |
|-------------|----------------------|----------------|-----------------------------------|-------------------------|
| 42          | ARGONAUT (*)         | USA            | 2                                 | (2 Ca)                  |
| 42          | ARGOS (**)           | ARG            | 2                                 | (2 Ca)                  |
| 43          | ARIEL (*)            | USA            | 4                                 | (4 Ca)                  |
| 43          | ARION                | Greece         | 2                                 | (1 Ca, 1 Cit)           |
| 43          | ARIS                 | Greece         | 2                                 | (2 Ca)                  |
| 43          | ARISTIDIS (**)       | Greece         | 2                                 | (2 Ca)                  |
| 44          | ARKADIA              | Greece         | 2                                 | (2 Ca)                  |
| 44          | ARKHANGELSK (**)     | USSR           | 2                                 | (1 Ca, 1 Cit)           |
| 44          | ARKTIKA              | USSR           | 3                                 | (3 Ca)                  |
| 44          | ARMAVIR              | USSR           | 3                                 | (2 Ca, 1 Pa)            |
| 44          | ARMENIA (*)          | USSR           | 2                                 | (2 Ca)                  |
| 44          | ARMONIA (**)         | ARG            | 2                                 | (2 Ca)                  |
| 44          | ARMONIA              | Greece         | 2                                 | (2 Ca)                  |
| 45          | ARTA                 | Greece         | 3                                 | (3 Ca)                  |
| 45          | ARTEM (*)            | Greece         | 2                                 | (2 Ca)                  |
| 45          | ARTEMIS (*)          | USSR           | 2                                 | (2 Ca)                  |
| 45          | ARTEMON (**)         | USA            | 2                                 | (2 Ca)                  |
| 46          | ARZAMAS              | Greece         | 2                                 | (2 Ca)                  |
| 47          | ASIA MARU            | USSR           | 2                                 | (2 Ca)                  |
| 48          | ASPA                 | Japan          | 2                                 | (1 Ca, 1 Cit)           |
| 48          | ASPASSIA (**)        | Greece         | 2                                 | (2 Ca)                  |
| 48          | ASPIS                | Greece         | 4                                 | (2 Ca, 2 Pa)            |
| 48          | ASTIR                | Greece         | 3                                 | (3 Ca)                  |
| 48          | ASTRAKHAN (**)       | Greece         | 3                                 | (2 Ca, 1 Cit)           |
| 50          | ATHINAI              | USSR           | 2                                 | (2 Ca)                  |
| 50          | ATHOS (**)           | Greece         | 3                                 | (2 Ca, 1 Pa)            |
| 51          | ATLANTIC MARU        | Greece         | 2                                 | (1 Ca, 1 Pa)            |
| 51          | ATLAS                | Japan          | 2                                 | (1 Ca, 1 Cit)           |
| 51          | ATLAS CARRIER (**)   | Greece         | 2                                 | (1 Ca, 1 Pa)            |
| 52          | AT LAST (*)          | Korea          | 2                                 | (2 Ca)                  |
| 52          | ATREUS               | USA            | 3                                 | (3 Ca)                  |
| 52          | ATREVIDO (*)         | Greece         | 2                                 | (2 Ca)                  |
| 52          | ATROMITOS (*)        | ARG            | 3                                 | (3 Ca)                  |
| 52          | ATSUTA MARU          | Greece         | 2                                 | (1 Ca, 1 Pa)            |
| 52          | AUDACITY (*)         | Japan          | 2                                 | (1 Ca, 1 Tpo)           |
| 53          | AURA (*)             | USA            | 3                                 | (3 Ca)                  |
| 53          | AURELIA (*)          | USA            | 2                                 | (2 Ca)                  |
|             |                      | USA            | 2                                 | (2 Ca)                  |

| <u>Page</u> | <u>Repeated name</u> | <u>Country</u> | <u>Nº of ships with<br/>same name</u> | <u>Classes of ships</u> |
|-------------|----------------------|----------------|---------------------------------------|-------------------------|
| 53          | AURORA (**)          | USA            | 2                                     | (2 Ca)                  |
| 53          | AUSTRALIA MARU       | Japan          | 2                                     | (1 Ca, 1 Con)           |
| 54          | AVANTI (*)           | USA            | 3                                     | (3 Ca)                  |
| 54          | AVLIS                | Greece         | 2                                     | (2 Ca)                  |
| 55          | AVRA                 | Greece         | 4                                     | (3 Ca, 1 Pa)            |
| 55          | AZALEA (**)          | Panama         | 2                                     | (2 Ca)                  |
| 55          | AZOV                 | USSR           | 2                                     | (2 Ca)                  |

Source: Prepared by OAS-CEPAL Maritime Transport Programme on the basis of  
ITU List of Ship Stations, 16th. Edition, Geneva, 1976.





Appendix B

Differences between ITU's List of Ship Stations  
and Lloyd's Register of Ships 1976-77

There are important differences between the ITU List of Ship Stations and Lloyd's Register of ships, for which it has not been possible to find an explanation. The following cases are pointed out as examples of such differences:

a. AGHIOS NICOLAOS - Greece

ITU List: 12 cargo ships with the following SCS: SV2049, SV2051, SV24024, SV3233, SV3237, SV3675, SVWF, SXXO, SYSF, SZMY, SZ50 and SZVM; and  
8 passenger ships with the following SCS: SV2433, SV2044, SV2052, SV2053, SV2054, SV2056, SV2057 and SV2605.

Lloyd's Register: 2 general cargo ships with the following SCS: SVMY and SYII;  
1 bulk carrier: SZMY;  
2 auxiliary general cargo ships: SVIZ and SXRK; and  
1 auxiliary fishing vessel: SVAU.

Only the ship with Ship's Call Sign SZMY appears in both sources.

b. ALBATROS - Argentina.

ITU List: 2 cargo ships: LW3050 and LW3687;

Lloyd's Register: 1 tug and 1 fishing vessel (no call signs)

c. ANITA - Argentina.

ITU List: 2 cargo ships: LW3423 and LW3558;

Lloyd's Register: 1 fishing side-trawler (no call sign).

d. ANNA MARIA - Greece

ITU List: 4 cargo ships: SVMU, SV3280, SXHC and SXYZ; and  
2 passenger ships: SV2078 and SV2079;

Lloyd's Register: 1 fishing side-trawler: SXYZ.

The ship with Ship's Call Sign SXYZ appears in both sources,  
but is described in the ITU List as a passenger ship and in  
Lloyd's as a fishing side-trawler.

e. APACHE - USA

ITU List: 2 cargo ships: WS5239 and WZR8273;

Lloyd's Register: 2 tugs: WS5239 and WB9188

The ship with Ship's Call Sign WS5239 appears in both sources,  
but is described in the ITU List as a cargo ship and in Lloyd's  
as a tug.

f. APOLLO - Panama

ITU List: 1 cargo ship: H05688 and  
1 passenger ship: H0ZB;

Lloyd's Register: 1 passenger/general cargo ship: HPYD

g. AQUARIUS - USA

ITU List: 18 cargo ships with the following SCS: WM6932, WY26941,  
WY9864, WZH8100, WZK4216, WZK7612, WZL4421, WZM2069,  
WZM4464, WZQ8019, WZR3309, WZR7312, WZS2736, WZS7768,  
WZV5907, WZW4691, WZW5385 and WZY8569;

Lloyd's Register: 1 fishing vessel and 1 research oceanographic  
ship (no call signs)

h. AQUATIC EXPLORER - USA

ITU List: 2 cargo ships: WY9501 and WZW3259;

Lloyd's Register: 1 research oceanographic ship: WY9501

The ship with Ship's Sign Call WY9501 is described in the ITU List  
as a cargo ship and in Lloyd's as a research oceanographic ship.

i. AQUILA - USA

ITU List: 3 cargo ships: WW6685, WY3383 and WZM7660;

Lloyd's Register: 1 fishing side-trawler (no call sign)

j. ARCTURUS - USA

ITU List: 2 cargo ships: WK5700 and WZ88393;

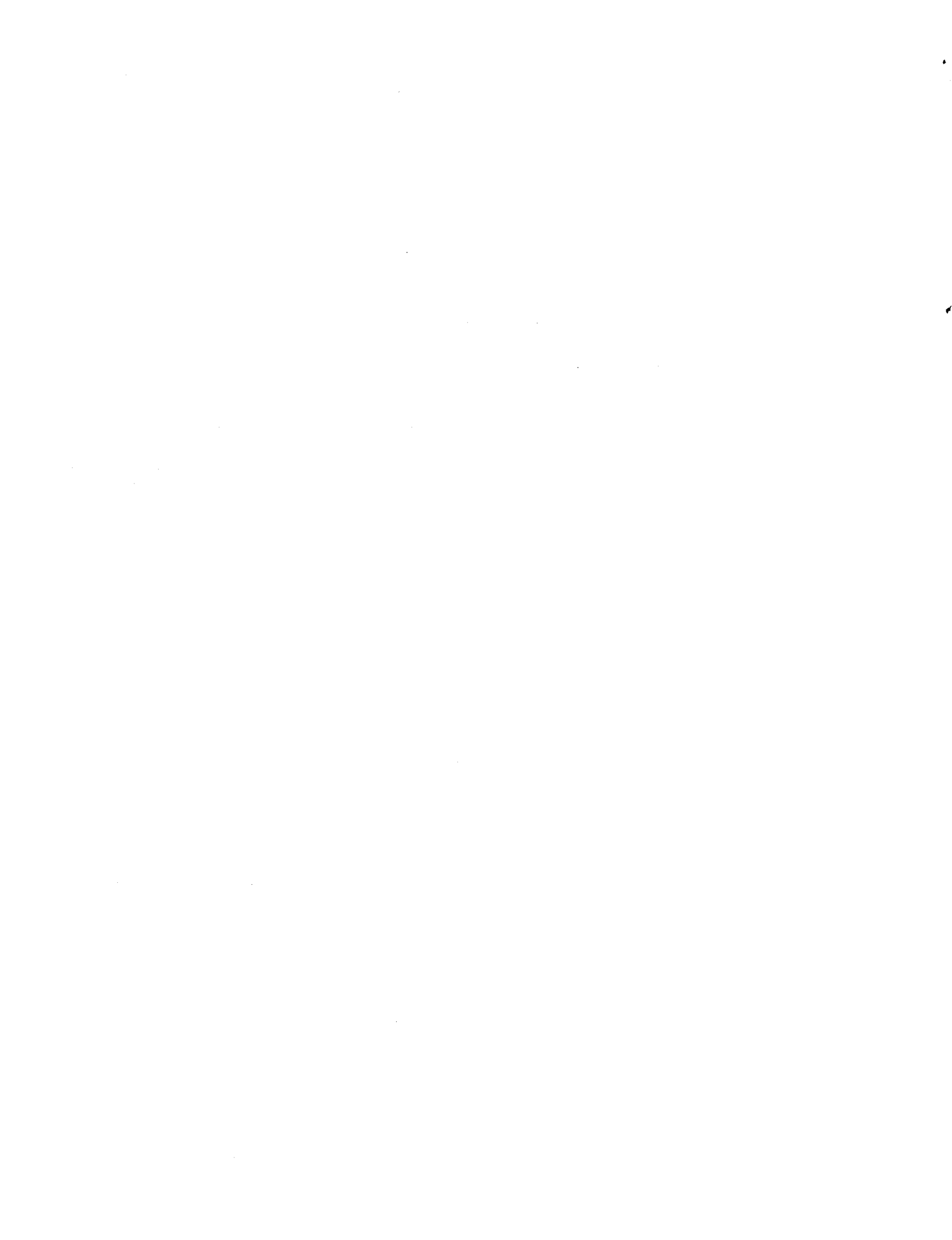
Lloyd's Register: 1 fishing vessel: WA2510

k. ARIEL - USA

ITU List: 4 cargo ships: WYW5122, WYZ4939, WZE6138 and WZX5694;

Lloyd's Register: 1 supply ship, deck cargo anchor-handling (no call sign)

Source: Prepared by OAS-CEPAL Maritime Transport Programme on the basis of ITU List of Ship Stations, 16th. Edition, Geneva, 1976, and Lloyd's Register of Shipping Register of Ships 1976-77, London, 1976.



Appendix C

ISO 2-LETTER ALPHABETIC COUNTRY CODE - ISO 3166-1974

|                            |    |                              |    |
|----------------------------|----|------------------------------|----|
| AFGHANISTAN                | AF | CENTRAL AFRICAN REPUBLIC     | CF |
| ALBANIA                    | AL | CHAD                         | TD |
| ALGERIA                    | DZ | CHILE                        | CL |
| AMERICAN SAMOA             | AS | CHINA                        | CN |
| ANDORRA                    | AD | CHRISTMAS ISLAND             | CX |
| ANGOLA                     | AO | COCOS (KEELING) ISLANDS      | CC |
| ANTARCTICA                 | AQ | COLOMBIA                     | CO |
| ANTIGUA                    | AG | COMORO ISLANDS               | KM |
| ARGENTINA                  | AR | CONGO                        | CG |
| AUSTRALIA                  | AU | COOK ISLANDS                 | CK |
| AUSTRIA                    | AT | COSTA RICA                   | CR |
| BAHAMAS                    | BS | CUBA                         | CU |
| BAHRAIN                    | BH | CYPRUS                       | CY |
| BANGLADESH                 | BD | CZECHOSLOVAKIA               | CS |
| BARBADOS                   | BB | DAHOMEY                      | DY |
| BELGIUM                    | BE | DENMARK                      | DK |
| BELIZE                     | BZ | DOMINICA                     | DM |
| BERMUDA                    | BM | DOMINICAN REPUBLIC           | DO |
| BHUTAN                     | BT | DRONNING MAUD LAND           | NQ |
| BOLIVIA                    | BO | ECUADOR                      | EC |
| BOTSWANA                   | BW | EGYPT                        | EG |
| BOUVET ISLAND              | BV | EL SALVADOR                  | SV |
| BRAZIL                     | BR | EQUATORIAL GUINEA            | GQ |
| BRITISH ANTARC. TERRIT.    | BQ | ETHIOPIA                     | ET |
| BRITISH INDIAN OCEAN TER.  | IO | FAEROE ISLANDS               | FO |
| BRITISH SOLOMON ISLANDS    | SB | FALKLAND ISLANDS (MALVINAS)  | FK |
| BRITISH VIRGIN ISLANDS     | VG | FIJI                         | FJ |
| BRUNET                     | BN | FINLAND                      | FI |
| BULGARIA                   | BG | FRANCE                       | FR |
| BURMA                      | BU | FRENCH GUIANA                | GF |
| BURUNDI                    | BI | FRENCH POLYNESIA             | PF |
| BYELORUSSIAN SSR           | BY | FRENCH SOUTH. & ANTAR. TERR. | FQ |
| CAMEROON                   | CM | FRENCH AFARS & ISSAS         | AI |
| CANADA                     | CA | GABON                        | GA |
| CANTON & ENDERBURY ISLANDS | CT | GAMBIA                       | GM |
| CAPE VERDE ISLANDS         | CV | GERMAN DEMOCRATIC REP.       | DD |
| CAYMAN ISLANDS             | KY | GERMANY, FEDERAL REPUBLIC OF | DE |

/GHANA

GHANA  
GIBRALTAR  
GILBERT & ELLICE ISLANDS  
GREECE  
GREENLAND  
GRENADA  
GUADELOUPE  
GUAM  
GUATEMALA  
GUINEA  
GUINEA BISSAU  
GUYANA  
HAITI  
HEARD AND McDONALD ISLANDS  
HONDURAS  
HONG KONG  
HUNGARY  
ICELAND  
INDIA  
INDONESIA  
IRAN  
IRAQ  
IRELAND  
ISRAEL  
ITALY  
IVORY COAST  
JAMAICA  
JAPAN  
JOHNSTON ISLAND  
JORDAN  
KENYA  
KHMER REPUBLIC  
KOREA, DEM. PEOPLE'S REP. OF  
KOREA, REPUBLIC OF  
KUWAIT  
LAOS  
LEBANON  
LESOTHO  
LIBERIA  
LIBYAN ARAB REPUBLIC  
LIECHIENSTEIN  
LUXEMBOURG  
MACAO  
MADAGASCAR  
MALAWI

GH MALAYSIA  
GI MALDIVES  
GE MALI  
GR MALTA  
GL MARTINIQUE  
GD MAURITANIA  
GP MAURITIUS  
GU MEXICO  
GT MIDWAY ISLANDS  
GN MONACO  
GW MONGOLIA  
GY MONTSERRAT  
HT MOROCCO  
HM MOZAMBIQUE  
HN NAMIBIA  
HK NAURU  
HU NEPAL  
IS NETHERLANDS  
IN NETHERLANDS ANTILLES  
ID NEUTRAL ZONE  
IR NEW CALEDONIA  
IQ NEW HEBRIDES  
IE NEW ZEALAND  
IL NICARAGUA  
IT NIGER  
CI NIGERIA  
JM NIUE ISLAND  
JP NORFOLK ISLAND  
JT NORWAY  
JO OMAN  
KE PACIFIC ISLANDS TRUST TER.  
KH PAKISTAN  
KP PANAMA  
KR PANAMA CANAL ZONE  
KW PAPUA NEW GUINEA  
LA PARAGUAY  
LB PERU  
LS PHILIPPINES  
LR PITCAIRN ISLANDS  
LY POLAND  
LI PORTUGAL  
LU PORTUGUESE TIMOR  
MO PUERTO RICO  
MG QATAR  
MW REUNION

MY  
MV  
ML  
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MC  
MN  
MS  
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MZ  
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QA  
RE

/ROMANIA

|                           |    |                               |    |
|---------------------------|----|-------------------------------|----|
| ROMANIA                   | RO | THAILAND                      | TH |
| RWANDA                    | RW | TOGO                          | TG |
| ST HELENA                 | SH | TOKELAU ISLAND                | TK |
| ST KITTS-NEVIS-ANGUILLA   | KN | TONGA                         | TO |
| ST LUCIA                  | LC | TRINIDAD & TOBAGO             | TT |
| ST PIERRE & MIQUELON      | PM | TUNISIA                       | TN |
| ST VINCENT                | VC | TURKEY                        | TR |
| SAN MARINO                | SM | TURKS & CAICOS ISLANDS        | TC |
| SAO TOME & PRINCIPE       | ST | UGANDA                        | UG |
| SAUDI ARABIA              | SA | UKRAINIAN SSR                 | UA |
| SENEGAL                   | SN | UNION OF SOVIET SOC. REP.     | SU |
| SEYCHELLES                | SC | UNITED ARAB EMIRATES          | AE |
| SIERRA LEONE              | SL | UNITED KINGDOM                | GB |
| SIKKIM                    | SK | UNITED STATES                 | US |
| SINGAPORE                 | SG | US MISC. PACIFIC ISLANDS      | PU |
| SOMALIA                   | SO | US VIRGIN ISLANDS             | VI |
| SOUTH AFRICA              | ZA | UPPER VOLTA                   | HV |
| SOUTHERN RHODESIA         | RH | URUGUAY                       | UY |
| SPAIN                     | ES | VATICAN CITY STATE (HOLY SEE) | VA |
| SPANISH SAHARA            | EH | VENEZUELA                     | VE |
| SRI LANKA                 | LK | VIETNAM, DEMOCRATIC REP. OF   | VD |
| SUDAN                     | SD | VIETNAM, REPUBLIC OF          | VN |
| SURINAM                   | SR | WAKE ISLAND                   | WK |
| SVALBARD & JAN MAYEN ISL. | SJ | WALLIS AND FUTUNA ISLANDS     | WF |
| SWAZILAND                 | SZ | WESTERN SAMOA                 | WS |
| SWEDEN                    | SE | YEMEN                         | YE |
| SWITZERLAND               | CH | YEMEN, DEMOCRATIC             | YD |
| SYRIA                     | SY | YUGOSLAVIA                    | YU |
| TAIWAN (PROVINCE OF)      | TW | ZAIRE                         | ZR |
| TANZANIA                  | TZ | ZAMBIA                        | ZM |