

## HYDROFOIL OPERATORS

Freccia Adriatica, operated by Aliscafi, Messina, in conjunction with Condor Ltd, Guernsey, on the Geurnsey-St Malo route

in association with Societe Aliscafi, Messina)

Office addresses and telephone numbers:

1 Joffre Street, San Juan, Puerto Rico

Telephone: (809) 724-7570

PO Box 3185, St. Thomas, Virgin Islands

Telephone: (809) 744-6535

c/o J. R. O'Neal, Tortola, British Virgin Islands

Telephone: Tortola 2292

Type(s): 1 PT 50 (Rodriguez)

Services: See United States Hydrofoils Corporation

#### Trinidad & Tobago Hydrolines

(A subsidiary of International Hydrolines, Inc)

34 Sackville Street, Port-of-Spain, Trinidad

Type(s): Raketa, 1; Kometa, 1 (Sormovo)

Services: See International Hydrolines, Inc, USA

#### Bahama Hydro Lines Ltd

VICE-PRESIDENT SALES AND OPERATIONS:

S. Panunzio

Type(s): Dolphin, 1 (Blohm and Voss/Grumman)

Route: Freeport (Grand Bahama Island)—Miami Beach

#### ASIA

##### JAPAN

#### Biwako Kisen Co Ltd

Type(s): PT 3A, 1 (Hitachi)

Route: Biwa Lake

#### Kyushu Shosen Co Ltd

Type(s): PT 3A, 1 (Hitachi)

Route: Misumi-Shimabara

#### Nishisskutajimamura Kotsubu

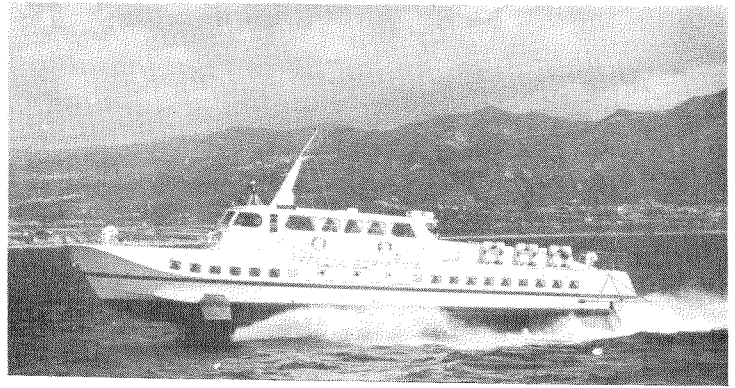
Type(s): PT 3A, 1 (Hitachi)

Route: Kagoshima-Hakamakoshi

#### Innoshima Suichu Yokusen Co Ltd

Type(s): PT 3A, 1; PT 3B, 1; PT 5, 2 (Hitachi)

Route: Onomichi-Innoshima



#### Neitetsu Kaijo Kanko Co Ltd

Type(s): PT 20, 2 (Hitachi)

Route: Nagoya-Gamagori; Toyohsahi-Toba

#### Kansai Kisen Co Ltd

Type(s): PT 20, 2; PT 50, 1 (Hitachi)

Route: Osaka-Takamatsu

#### Setonaikai Kisen Co Ltd

Type(s): PT 20, 3 (Hitachi); MH 30, (Mitsubishi)

Route: Matsuyama-Hiroshima; Onomichi-Imabari

#### Hankyu Maikai Kisen Co Ltd

Type(s): PT 20, 2 (Hitachi)

Route: Kobe-Naruto

#### Iwasaki Kisen Co Ltd

Type(s): PT 20, 1 (Hitachi)

Route: Matsuyama-Hiroshima

#### Neitetsu Kaijo Kanko Co Ltd

Type(s): PT 50, 1 (Hitachi)

Route: Nagoya-Gamagori

#### Nihon Kosokusen Co Ltd

Type(s): PT 50, 1 (Hitachi)

Route: Enoshima-Atami

#### Shimakatsuurakankokisen

Type(s): MH 30, 3

Route: Gamagori-Toba-Nagoya



One of two Hitachi PT 20s owned by Hankyu Lines, Kobe, and operated between Kobe and Naruto

## HYDROFOIL OPERATORS

### HONG KONG

#### Shun Tak Co

Type(s): PT 20, 1 (Rodriquez)

Route: Hong Kong-Macao

#### Hong Kong Macao Hydrofoil Co

Type(s): PT 20, 4; PT 40, 4 (Rodriquez)

Route: Hong Kong-Macao

#### Far East Hydrofoil Co

Type(s): PT 50, 3 (Hitachi)

Route: Hong Kong-Macao

### INDONESIA

#### Indonesian Government

Type(s): PT 20, 1 (Rodriquez)

Service: Patrol

### CEYLON

#### Royal Ceylon Navy

Type(s): Waterman, 1 (International Aquavion)

Communications and patrol

## AUSTRALASIA

### AUSTRALIA

#### Port Jackson & Manly Steamship Co, Sydney

Type(s): PT 20, 1; PT 50, 1 (Hitachi and Rodriquez)

Route: Sydney bay and coastal services

### NEW ZEALAND

#### Kerridge Odeon Corporation

Type(s): PT 20, 1 (Rodriquez)

Route: Auckland-Waiheke Island

## EUROPE

### CHANNEL ISLANDS

#### Condor Hydrofoil Services, Guernsey

Type(s): PT 50, 1 (Rodriquez)

A second PT 50 is being operated on the route in association with Societa Aliscafi, Messina

Route: Guernsey-Jersey-St Malo

### DENMARK

#### Dampskipselskapet Oresund

Type(s): PT 50, 2 (1 Rodriquez, 1 Westermoen)

Route: Copenhagen-Malmo

### FINLAND

#### Paijanteen Kantosiipi Oy

Type(s): Raketa, 1 (Krasnoye Sormovo)

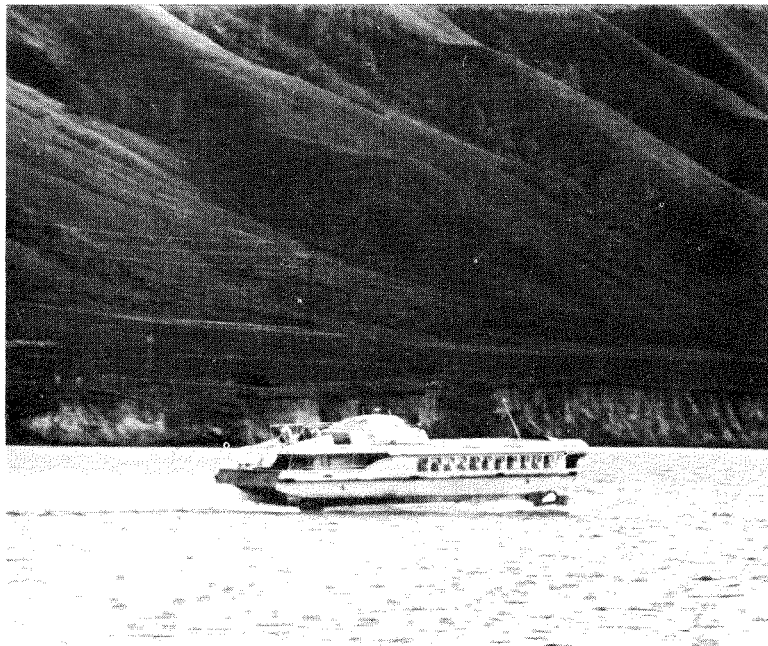
Route: Lahti-Jyvaskyla, across Lake Paijane

### GERMANY

#### Water Police

Type(s): PT 4, 3 (German Shipyard)

Route: Patrol service on the Rhine



A Raketa 50-seat passenger ferry on the Irtysh river

#### HAMBURG TRANSPORT DEPT

Type(s): Seafight P46, 2 (Seafight)

Routes: In Hamburg harbour

### GREECE

#### John Latsis

Type: PT 50 (Rodriquez)

Route: Athens-Passalimni-Hydra

### HUNGARY

#### Hungarian Navigation Company

Type(s): Raketa, 2 (Krasnoye-Sormovo)

Route: Budapest-Vienna

### ITALY

#### ENIT

Type(s): P 46, 2 (Seafight)

Route: Cruise routes

#### SNAV, Messina

Type(s): PT 50, 3; PT 20, 1 (Rodriquez)

Route: Naples-Capri-Ischia

#### Aliscafi SpA

Type(s): PT 20, 6; PT 50, 3 (Rodriquez)

Route: Messino-Reggio-Isole Liparre

#### SAS, Trapani

Type(s): PT 50, 1; PT 20, 3 (Rodriquez)

Route: Trapani-Egadi Islands

#### Tourist Ferryboat Co

Type(s): P 46, 2; H 57, 1 (Seafight)

Routes: Messina-Reggio Calabria

#### Adriatica SpA di Navigazione

Venezia

Type(s): PT 50, 1 (Rodriquez)

Route: Tremoli-Isolodi Tremiti

#### Ministry of Transport, Milan

Type(s): PT 20, 3 (Rodriquez)

Route: Lake Garda

#### Compagnia di Navigazione

Type(s): PT 20, 1 (Rodriquez)

Route: Lake Maggiore

#### Compagnia di Navigazione

Type(s): PT 20, 1 (Rodriquez)

Route: Lake Como

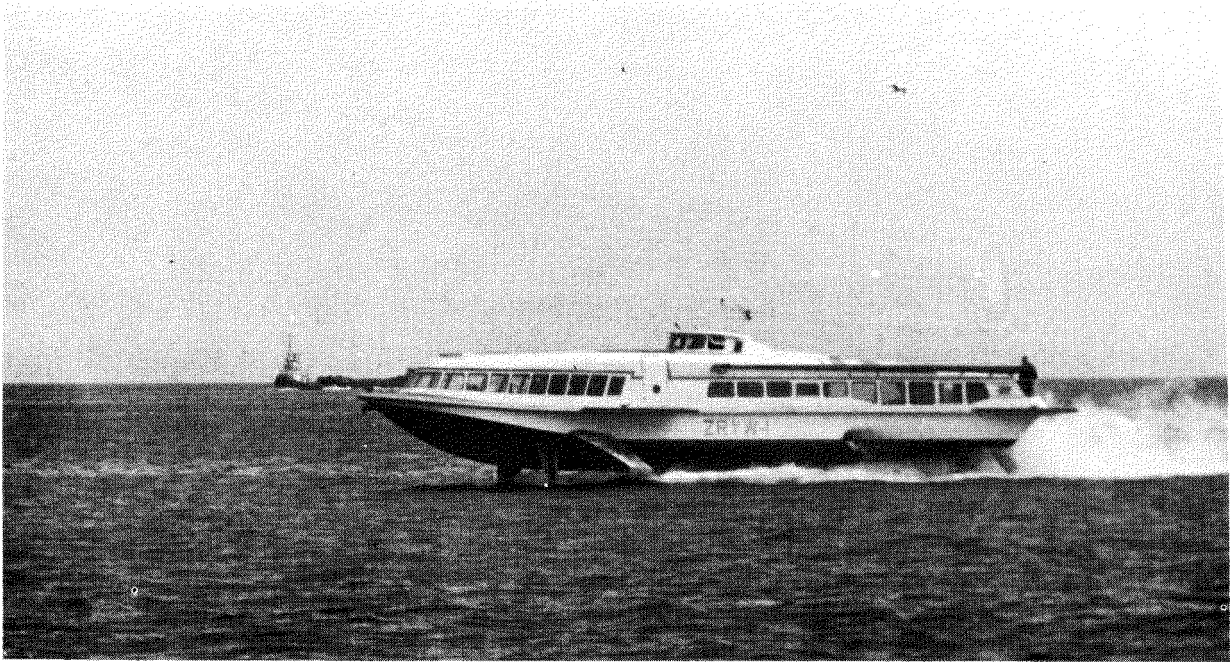
#### Lauro Navigation Co

Type(s): H 57, 2 (Seafight)

Routes: Naples-Capri; Naples-Ischia

Seafight H57 operators include two Italian companies, Tourist Ferryboat Co and Lauro Navigation Co. and one in the United Kingdom—Red Funnel Steamers of Southampton





The 76-seat ZRYW-1, operated for the Polish Central Board of Inland Navigation in the Firth of Szczecin

**Fiera Internazionale Genoa**

Type(s): PT 20, 1 (Rodriquez)

**Liguria Riviera, Genoa**

Operator: SAS and SNAV

Type(s): PT 50, 1 (Rodriquez)

Route: Palermo-Eolain Islands

**Societa Sirena, Palermo**

Type(s): PT 50, 2; PT 20, 1

Route: Palermo-Ustica

**Societa Tosco Sarda di Nav Porto Ferraio**

Type(s): PT 20, 2

Route: Piombino-R, Matina-P. Azzutto

**MALTA**

**Malta Aliscafi Ltd**

Type(s): PT 20, 1 (Rodriquez)

Route: Malta-Gozo

**NORWAY**

**Stavangerske Dampskibsselskab**

Type(s): PT 50, 2; PT 20, 1 (Rodriquez)

Route: Stavanger-Haugesund-Bergen

**Hardanger Sunnhordelandske Dampskibsselskap**

Box 268, 5001, Bergen

Type(s): PT 20, 1 (Rodriquez)

Route: Bergen-Tittelsness

**Hydrofoilirutene, Oslo**

Type(s): PT 20, 2 (Westermoen)

Route: Oslofjord

**Haanes Rederi, A/S**

V. strandgt, 42, Kristiansand 4600

Type(s): PT 50 Flipper, PT 50 Tumleren (Westermoen)

Services: Charter work in Scandinavian waters

**Fosen Trafikklag A/S**

Skansekaia 6, Trondheim

Type(s): PT 20 Nisen

Services: Trondheim area

**Joh. Presthus Rederi**

Bergen

Type(s): PT 150, 2 (Westermoen—under construction)

Services: Canary Islands

**POLAND**

**Central Board of Inland Navigation**

Type(s): ZRYW-1

Route: Szczecin-Swinoujscie

**SWEDEN**

**AB Sundfart Malmö**

Type(s): PT 50, 1; PT 20, 2 (Westermoen)

Route: Copenhagen-Malmö

**Svenska Rederiaktiebolaget Oeresund**

Type(s): PT 50, 2 (Rodriquez)

Route: Copenhagen-Malmö

**Göteborg-Friedrichshavn Line**

Type(s): PT 150 (Westermoen)

Route: Göteborg-Aalborg-Fredrikshavn

**SWITZERLAND**

**Société de Nay, sur le Lac Lemman**

Type(s): PT 20, 1 (Rodriquez)

Route: Lake Lemman

**Red Funnel Steamers Ltd**

Type(s): Seafight H57

Route: Southampton-Cowes

**Speed Hydrofoils Ltd**

7 Gilham House, Silwood Street, London E.S.16

Telephone: Bermondsey 5574

Managing Director: W. T. Ludgrove

Type(s): Volga, 2 (Sormovo/Batumi)

Service: Tourist trips, Greenwich

**Taurus Yacht Services Ltd**

52 Portchester Road, Bournemouth

Telephone: Bournemouth 20419

Managing Director: Maurice Cutler

Type(s): Volga, 1 (Sormovo/Batumi)

Service: Tourist trips, Boscombe Pier, Poole Harbour

**William Hudson Ltd**

8 Lloyds Avenue, London, EC3.

Telephone: 01-488 3171

Type: Watermans (International Aquavion)

Services: Company transport on the Thames

**YUGOSLAVIA**

**Split Airport/Globtour**

Type(s): Kometa, 6 (Sormovo)

Route: Pula-Dubrovnik

**NORTH AFRICA**

**EGYPT**

**Ministry of Commerce, Cairo**

Type(s): PT 20, 3 (Rodriquez)

Route: Abu Simbel-Asswan

**Suez Canal Administration**

Type(s): PT 4, 1 (Werf Gusto)

Route: Suez Canal

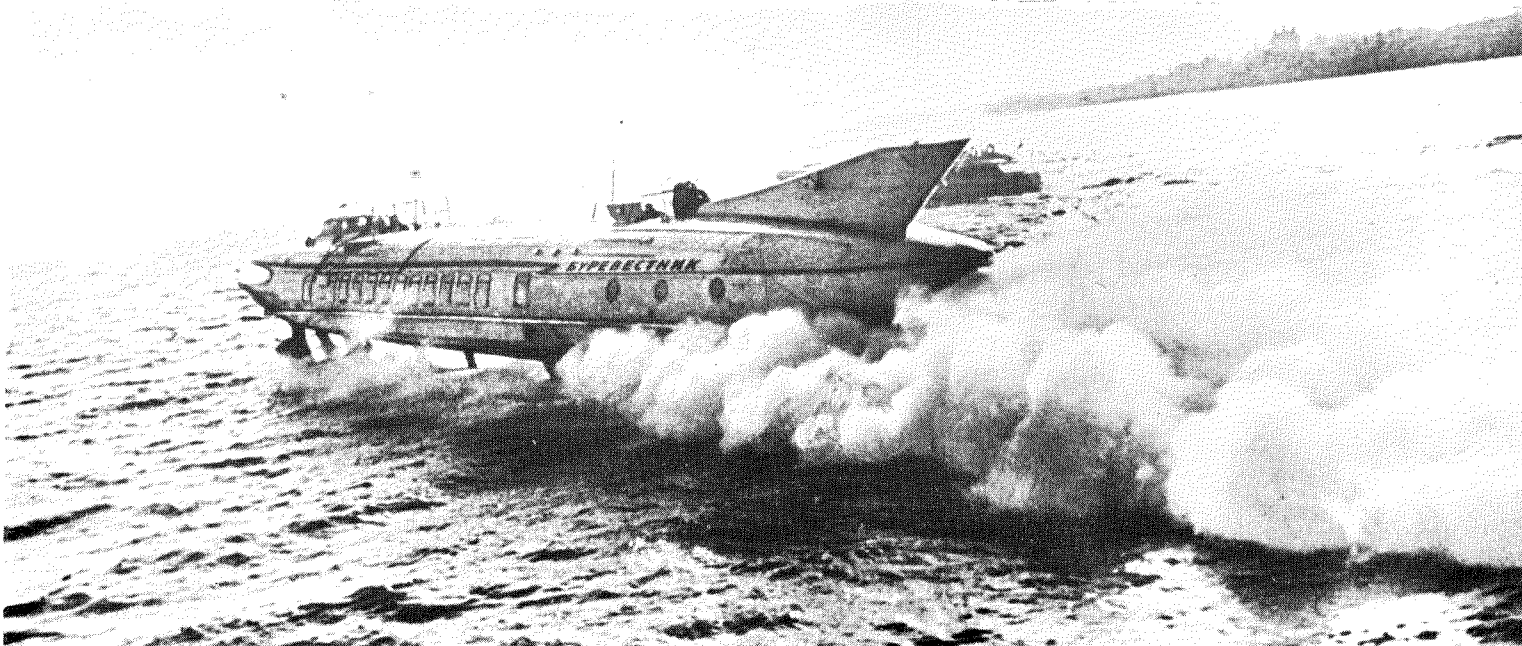
**MOROCCO**

**Transports Touristiques Intecontinentaux, Tangier**

Type(s): Kometa, 1 (Sormovo design)

Routes: Tangier-Algeciras, Tangier-Marbella

## HYDROFOIL OPERATORS



The 150-passenger Burevestnik during trials on the Volga. The craft cruises at 52-53 knots and is now operating between Gorky and Kuibyshev

## PACIFIC

## PHILIPPINES

**Tourist Hotel and Travel Corporation**

Type(s): PT 20, 2 (Rodriquez)

Route: Manila-Corregidor

**Philippine Navy**

Type(s): PAT 20, 2 (Rodriquez); PT 32, 2 (Hitachi)

Coastal Patrol

**Sundaharya Corp, Djakarta**

Type(s): PT 20

Route: Indonesian Coast

## SOVIET UNION

**Ministry of the River Fleet**

The Soviet Ministry of the River Fleet operates well over 1,000 hydrofoil passenger ferries on routes which cover practically all the major rivers, lakes, canals and reservoirs from Central Russia to Siberia and the Far East.

In 1958, when hydrofoils were first introduced to the rivers of the USSR, they carried ten thousand passengers. By 1968 the number of passengers carried had grown to three million. During the current navigation season (1969-70) there are 80 hydrofoil services on the Volga alone, operated by vessels of the Raketa, Meteor, Sputnik and Burevestnik series. The Burevestnik prototype is now operating between Gorky and Kuibyshev, a distance of 435 miles (700 km). The craft is powered by gas-turbine driven water-jet units and has a service speed of 52-53 knots (95-97 km/h).

In addition to the many hundreds of craft on inland waterways employing the Alexeyev shallow draft submerged foil system, Strela-type craft, with surface-piercing foils, operate in the Gulf of Finland, and supported by Kometas and Vikhrs, provide year-round services between ports on the Black Sea.

Strelas were expected to be joined in 1969 by the new gas-turbine

powered Typhoon, built by a Leningrad yard. The craft seats 90 passengers, and has an autostabilised foil system.

Two new hydrofoil passenger ferry designs were announced in 1969—the Cyclone, a gas-turbine powered craft with seats for 250 and capable of 38 knots and the Voskhod (Sunrise), a Raketa replacement. The Voskhod will provide greater comfort and improved facilities for passengers and crew and air-conditioning will be installed. As with the Raketa, a family of variants will be available to suit a wide variety of operating and traffic conditions. Construction of this craft will start in 1971. Fastest of the series will be the Voskhod 3, powered by a gas-turbine and capable of 43 knots.

The Raketa has given excellent service and has extremely low operating costs. The cost of carrying passengers on the craft is stated by a leading transport writer, Dmitry Sasorov, to be lower than that of either displacement-type passenger ferries or automobiles. Similar low-cost operation is demonstrated by the 260-passenger Sputnik on the Moscow-Astrakhan route. It has been found that the cost of operating a Sputnik on this service is only 8% of that of the latest displacement-type passenger ferry of the United Volga Steamship Line. Time-saving is one of the most important considerations. Sasorov says that in many cases, hydrofoils take passengers to their destinations faster than trains. For example, a Raketa service covers the 516 miles (800 km) from Gorky to Kazan in 12 hours, while trains take 20 hours for the same journey. Price of the tickets is the same, however, whether the journey is undertaken by hydrofoil or rail.

The Meteor service from Moscow to Sormovo takes 13 hours 40 minutes to cover 559 miles (900 km). A conventional passenger ship requires about three days to cover this distance.

In March 1969, a Raketa of the Soviet Danube Shipping Administration inaugurated a new high speed international passenger service on the Danube. The craft completed the first round voyage from Izmail to the Rumanian ports of Galati, Braila and Girugiui and the Bulgarian port of Ruse. In April a Meteor, with twice the Raketa's seating capacity, was put into service on the same route.