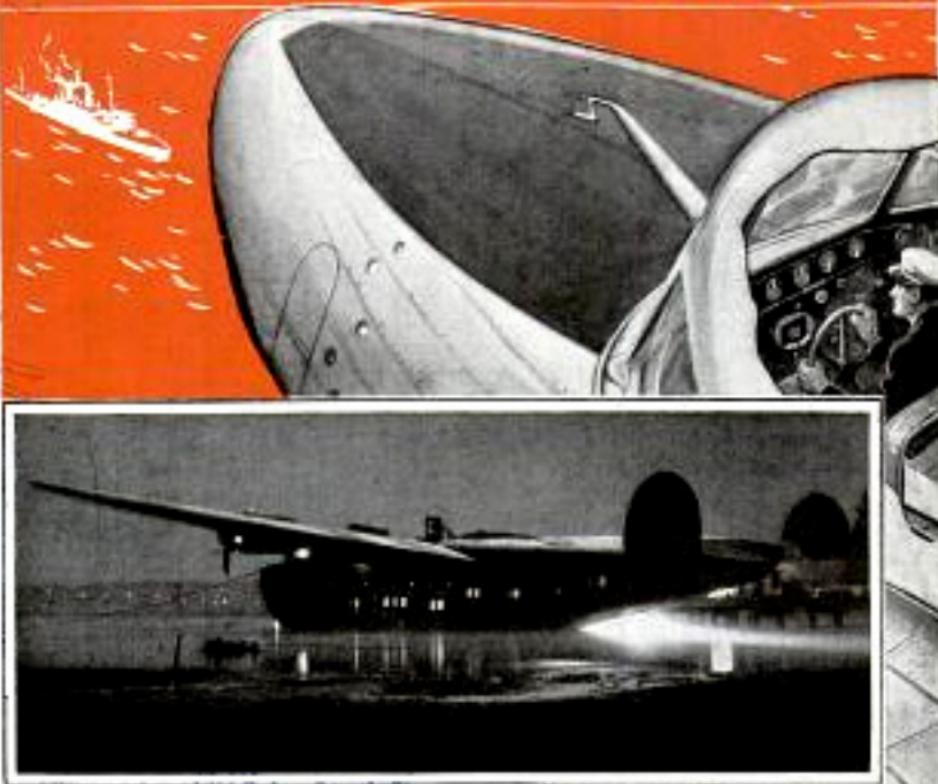


NEW YORK to EUROPE



PASSENGER carrying airplane service between New York and Europe—long the dream of the aviation industry—is in the process of inauguration by Pan American Airways.

Poised on this side of the Atlantic ocean, ready for the first history-making flight, is an 82,300-pound, all-metal Boeing flying boat—the largest in the world—powered by four great engines and capable of flying 4,275 miles, non-stop, with full load. With a day capacity of seventy-four passengers, the mighty ship is expected to carry forty passengers in luxurious quarters on its maiden journey across the Atlantic. It has a cargo capacity of 5,000 pounds.

Scarcely will the first clipper roar eastward, within a few weeks, before a second

ocean-going greyhound of the air will be hauled from a hangar at Baltimore, Md., and prepared for the start of the second scheduled voyage. Other sister clippers, now being constructed, will be added to Pan American's Atlantic fleet within a short time, enabling the company to offer service to Europe several times a week.

While the clippers will be serviced at Baltimore, the takeoff terminal will be at North Beach on Long Island sound or at Pan American's temporary base at Port Washington, N. Y. From there a northern

by CLIPPER



Opposite page (bottom), striking night photo of the Yankee Clipper. On this and opposite page, cutaway sketch of the clipper's flight deck with officers at their posts. The master is not pictured. Right, Right-angle view of the controls.



route, which will be used during summer, is by Shediac, New Brunswick, to Botwood, Newfoundland, thence across a 1,995-mile overwater jump to Foynes, Ireland, and

finally to Southampton, England. Passengers **may** reach London by air taxi or train. Flying time will be approximately twenty-four hours, necessitating an overnight



flight for the trip across the open Atlantic; hence capacity of the clippers will be limited to that of night service, forty passengers. Another route, known as the southern, is by way of The Azores and Lisbon, Portugal, to Marseilles, France. Requiring about thirty-six hours, this route is the one the most favored for winter service and is being considered for the maiden flight. Baltimore probably will be the terminal for winter flights.

Even persons accustomed to the best in air travel will find clipper accommodations a surprise. With its two decks and eighteen separate rooms, its soft carpeted floors, its divan-port-type lounging chairs and its modern styling throughout, the Atlantic air queen is virtually a "Park Avenue suite on wings." You board the ship by gangplank that leads to the broad upper surface of one of the hydro-stabilizers, which is a 1,500-gallon fuel reservoir but serves as a loading deck. Entering the passenger deck by a side door, you step down three steps into the dining saloon and recreation center, the largest room in the ship with the exception of the control room on the upper deck. The ten and one-half by twelve-foot dining room has a gay color scheme, with a splashed blue pattern on furniture uphol-

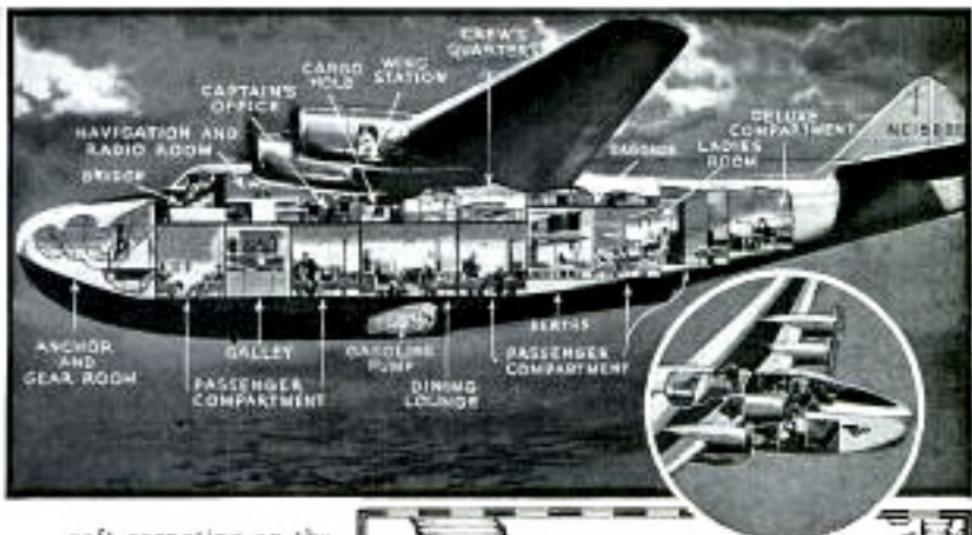


stery, rich carpeting and walls of silvery beige. Double windows on either side of the room have modern Venetian-type blinds, as do windows of all passenger compartments. There are five dining tables of polished black walnut and deeply upholstered chairs for fifteen persons to be served at a time.

Arched doorways at either end of the central lounge lead to passenger quarters fore and aft. Going aft, you pass through three standard compartments, each with floor dimensions of seven and one-half by twelve feet and a height of seven and one-half feet. Seats are upholstered in beige wool tapestry, tailored with leather trimmings. The cabins are exceptionally quiet, the result of double insulation and sound-proofing in the walls and



Top, dining saloon in use as recreation room. Center, men's room, with electric razor in use. Bottom, berths made up for night flight, such as the clipper will make across the Atlantic.



soft carpeting on the floors.

At night two triple seats and two double seats in each compartment will be converted into upper and lower berths all more than six feet long. Each berth has an outside window, individual ventilator, reading light, steward's call button, clothes rack and hangers.

Farther toward the stern you find a four-passenger port side compartment, opposite which is the women's dressing room. Furnishings of this dressing room include leather-covered upholstered dressing table stools, long double dressing table with two plate-glass mirrors and modern lighting fixtures, wash basin with hot and cold running water, unihair large mirror and a dental lavatory. Finally, in the aft-most section, you enter a de luxe compartment, or "bridal suite." This room contains a love



Top: Cutaway view of the clipper showing spacious passenger quarters and the flight deck. **Inset:** Masters and control section at front of giant ship. **Center:** Map showing northern and southern routes over which the clipper will fly to Europe. **Bottom:** One of the ten-passenger compartments made up for day travel.

(Continued to page 181A)



IT'S EASY TO GET BIG PROFITS WITH HOBART ARC WELDING EQUIPMENT

There's no better investment you can make than in a Hobart arc welding outfit. And there's no better way to get started in the welding business than by getting into the welding business with Hobart. The Hobart master is guaranteed to help you every step of the way. He will help you select the right equipment for your needs, and he will help you learn how to use it. Hobart offers a wide variety of welding equipment to suit every type of the work you have to do, from simple spot welding to heavy-duty structural welding.

HOBART WELDERS. This is an important feature you get in Hobart units. You can use them for all kinds of welding jobs, such as structural and marine welding, sheet metal welding, and many other applications.

HOBART CUTTERS. Hobart has developed a unique cutting system that makes it possible to cut almost any material in the world.

HOBART EXHAUST EQUIPMENT. Hobart has developed a unique exhaust system that makes it possible to remove fumes and smoke from your shop.

HOBART REPAIRS. Hobart offers a complete repair service for all types of welding equipment. They will repair your unit at a reasonable cost.

HOBART SERVICE. Hobart offers a complete service program for all types of welding equipment. They will repair your unit at a reasonable cost.

HOBART RENTAL CO., Box M-11, Tel. Elm 0200. One of the largest suppliers of welding and arc welders.

TRY IT FOR YOURSELF
WITHOUT EXPENSE
TO YOU...

**30 DAYS
TRIAL
TO PROVE IT**

ASK ABOUT THE
**HOBART
RENTAL PLAN**

FREE!
THE VANGUARD
BOOK ON
ARC WELDING

**Ask about the
HOBART
RENTAL PLAN**

**BUILD YOUR OWN
Simplified ARC WELDER**

HOBART WELD CO., Box M-11, Tel. Elm 0200.

This can be done absolutely

anywhere in the country. Just send us your
dimensions and we'll send you the plans.

1-1 Master Draft
Service

Weather Ships Chart Air for Atlantic Clippers



Top, left, Lieutenant Commander Edward M. Smith, commanding the cutter "Chelan," and Lieutenant Ned Stroop preparing radio meteorograph for trip; right, sighting departing balloon with theodolite, to compute wind velocity and direction.



Left, launching radio meteorograph to balloon, which must be checked for proper carrying weight. Parachute is provided to bring instruments down steadily after balloon bursts in stratosphere. Above, releasing automatic weather observer, which rises until it disappears but continues signaling.

Forecasts of weather along the Atlantic seaboard and over the British Isles are not enough to satisfy a pilot starting from New York for Europe with a load of passengers and mail. So, when regular transatlantic flights begin, floating weather stations will make daily observations along the air route. The U. S. Coast Guard cutters "Chelan" and "Champlain" will pioneer the service, sending aloft balloons with radio meteorographs to report temperature, pressure and humidity to ship while observers trace balloons for wind direction. Right, chief radio officer on coast guard ship tuning in to receive data from meteorograph.



Two-Story Transoceanic Plane Has Six Engines

Six motors of 1,500 horsepower each will power the vast flying boat the French war ministry has ordered built for the transatlantic service of Air France. Its cabin will be a two-story structure with the first floor lounge and drawing room so designed that it can be converted into separate passenger cabins at night. Upstairs are the piloting and navigation posts, a room for the crew, two cabins for passengers, two drawing rooms and a kitchen. The ship will have a maximum speed of about 150 miles an hour and fuel capacity to cruise 3,750 miles nonstop. It will be 133 feet long and thirty feet high, with 173-foot wing span, and will weigh seventy-five tons.



Top, dressing of six-engine transatlantic plane. Below, a view of lounge, convertible into separate cabins.