

Bridge-Tunnel Inches Across Chesapeake Bay

The world's longest bridge-tunnel is slowly inching across turbulent seas at the mouth of Chesapeake Bay.

The 17.6-mile crossing, which is routed along the edge of the Atlantic Ocean, will link Virginia's Eastern Shore peninsula with the rest of the State near Norfolk.

The mammoth project will cost 139 million dollars and is scheduled for completion late in 1963. The first section of tunnel recently was installed, the National

Geographic Society reports. The logistics and magnitude of the job make it one of the great engineering feats of the century. Six months were needed to mobilize the millions of tons of equipment and material for the structure.

Year-long Survey
Surveyors worked a year to chart a passage across the open water. As neither shore is visible from the central portion, the United States Coast and Geode-

tic Survey compounded positions for nine ocean towers to serve as guideposts.

The two-lane crossing will consist of 11.9 miles of low-level trestle; 1.7 miles of earth-fill causeway; two bridges over minor channels, totaling 5,151 feet; and the 5,738-foot Thimble Shoals Tunnel and 4,550-foot Baltimore Channel Tunnel, both passing beneath major naval and commercial shipping lanes.

Four man-made islands, built up from dredged sand, are rising from the Bay bottom to join the tunnels with surface sections of the crossing. Each island will cover about eight acres.

A \$3,500,000 concrete precasting plant was built at Cape Charles, Va. to manufacture trestle parts for the project. The bridge-tunnel will require 3,000 hollow concrete piles, 550,000 yards of concrete, and 55,000 tons of steel.

"Walking" Pile Driver
Ten-foot-high waves present a major construction problem in winter. Even when the ocean appears calm, there are swells of three or four feet.

Because of the rough seas, engineers have designed a "walking" pile driver. The rig has four 100-foot "legs," each with a pontoon at its base to prevent it from sinking into the soft bottom. The platform holding the pile driver is well above the reach of the waves.

Another device, called the "Two-headed Monster," moves on rails across the tops of piles sunk in groups of three. One boom levels the pile tops, while another caps them with concrete.

The Monster is followed by a traveling derrick that lays prefabricated roadway sections over the capped piles. Installation of guard rails, lighting, and asphalt surfacing completes the trestle.

The two tunnels literally will be built on shore and assembled underwater. The sections are double-walled steel tubes, each about 300 feet long and 37 feet in diameter.

The interior of each section is partly completed at a Norfolk pier. Concrete is poured between the inner and outer shells until the tube is barely afloat. It is then towed to the tunnel site, maneuvered into place, and filled with enough concrete to sink it gently into a trench at the bottom.

Divers join the sections. Construction crews progressively cut through the steel bulkheads to complete installation of the roadway, ventilation and communication systems, and power lines.

The new bridge-tunnel, which replaces a fleet of ferries, will cut the Bay crossing time by an hour. It closes the last water gap in the heavily traveled Ocean Highway from Portland, Maine, to Miami, Fla.

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TV Program Schedule

WECT, CHANNEL 8	WILMINGTON, N. C.
Thursday, December 7	9:30 The Third Man
6:30 Farm Beat	10:00 Thriller
7:00 Today	11:00 Wea. News, Spts.
9:00 History	Tuesday, December 12
9:30 Science	6:30 Caro. Farm Beat
10:00 Say When	9:00 History
10:30 Play Your Hunch	9:30 Science
11:00 Price Is Right	10:00 Say When
11:30 Concentration	10:30 Play Your Hunch
12:00 Truth or Conseq.	11:00 Price Is Right
12:30 Could Be You	11:30 Concentration
1:00 Spanish	12:00 Tr. or Con.
1:25 News	12:30 Could Be You
1:30 As World Turns	1:00 News, Spanish
2:00 Variety Showcase	1:25 News
2:30 Loretta Young	1:30 As World Turns
3:00 Young Dr. Malone	2:00 Variety Showcase
3:30 From These Roots	2:30 Loretta Young
4:00 Room for Daddy	3:00 Young Dr. Malone
4:30 Edge of Night	3:30 From These Roots
5:00 Showtime	4:00 Room for Daddy
6:00 Ben McDonald	4:30 Edge of Night
6:30 Weather, News	5:00 Showtime
7:15 Huntley-Brinkley	6:00 Ben McDonald
7:30 Real McCoy's	6:30 Weather, News
8:00 Donna Reed	7:15 Huntley-Brinkley
8:30 Hazel	7:30 Real McCoy's
9:00 Sing With Mitch	8:00 Donna Reed
11:00 Wea. News, Spts.	8:30 Hazel
Friday, December 8	9:00 Sing With Mitch
6:30 Farm Beat	11:00 Wea. News, Spts.
7:00 Today	Saturday, December 9
9:00 History	6:30 Farm Beat
10:00 Say When	7:00 Today
10:30 Play Your Hunch	9:00 History
11:00 Price Is Right	10:00 Say When
11:30 Concentration	10:30 Play Your Hunch
12:00 Truth or Conseq.	11:00 Price Is Right
12:30 Could Be You	11:30 Concentration
1:00 Frank Hall	12:00 Truth or Conseq.
1:25 News	12:30 Could Be You
1:30 As World Turns	1:00 Frank Hall
2:00 Variety Showcase	1:25 News
2:30 Loretta Young	1:30 As World Turns
3:00 Young Dr. Malone	2:00 Variety Showcase
3:30 From These Roots	2:30 Loretta Young
4:00 Room for Daddy	3:00 Young Dr. Malone
4:30 Edge of Night	3:30 From These Roots
5:00 Kukla & Ollie	4:00 Room for Daddy
5:05 Popeye	4:30 Edge of Night
5:30 Ozzie & Harriet	5:00 Kukla & Ollie
6:00 Ben McDonald	5:05 Popeye
6:30 Potential Unlimited	5:30 Ozzie & Harriet
6:55 Weather, News	6:00 Ben McDonald
7:15 Huntley-Brinkley	6:30 Potential Unlimited
7:30 My Three Sons	6:55 Weather, News
8:00 Sports	7:15 Huntley-Brinkley
8:30 Capt. of Detectives	7:30 My Three Sons
9:00 Telephone Hour	8:00 Sports
10:30 Music	8:30 Capt. of Detectives
11:00 Wea. News, Spts.	9:00 Telephone Hour
Saturday, December 9	10:30 Music
8:30 Unto My Path	11:00 Wea. News, Spts.
9:30 Pip The Piper	8:30 Unto My Path
	9:30 Pip The Piper

Stone Age Meets Space Age In Netherlands New Guinea

Despite rockets and atomic power, the human race has not fully emerged from the Stone Age.

In the wilds of Netherlands New Guinea, there are people who have never seen a metal implement. They chip their tools from stone as did the ancestors of Europeans thousands of years ago, the National Geographic Society says.

Some New Guineans fight with spears, wear little or no clothing, and regard head-hunting as an honorable duty. They sell women in marriage, accepting stone axes or beads in return. Many New Guinea tribesmen have never seen a foreigner, and believe airplanes passing overhead are great spirits.

Major Milestone
The Dutch Government is trying to introduce self-rule to the people of Netherlands New Guinea, the western part of the world's largest island, after Greenland. Recently the first elected legislative council was inaugurated at the capital, Hollandia.

Queen Juliana of the Netherlands hailed the ceremony as "the first step on the road that leads to the exercise of the right of self-determination." She added: "May this road prove to be a short one."

It may be short, but no one believes that progress will be painless. Despite their keen native intelligence, New Guinea's inhabitants—known collectively as Papuans—find it difficult to learn Western ways and adjust to a new order.

Netherlands New Guinea is

about the size of California, but the number of people is not known. Tribesmen live to themselves in many different units, each with its own customs and speech, that it is unusual to find more than 10,000 in a single language group. The population estimate for the whole of the territory is some 700,000.

The name "Papuans" is about the only common bond. There is hardly any distinguishing trait or skill, custom or tool familiar to all Papuans inhabiting the country.

Eat Sage and Taro
Pygmy Papuans live in the forest highlands, taller tribes in the lowlands. The hill people cultivate sweet potatoes and taro, an edible rootstock. Sage flour prepared from the pith of a palm is the mainstay of the lowland diet. The lowlanders support themselves with comparatively little work and have developed elaborate religions, including prolonged mask dances, sacred clubhouses for men, and mystic ceremonies.

Europeans first saw New Guinea in 1511 when a Portuguese ship visited the island. Dutchmen began trading with islanders early in the 17th century. In 1885, the Netherlands control over western New Guinea was recognized by an international agreement. Germany and Britain took over the eastern part, but their territories are now administered by Australia.

Dutch control is vigorously contested by Indonesia in a dispute that began when Indonesia became a nation in 1949. Consultation with the Papuans is largely

Expect Colder Winters

The world can expect slightly colder winters during the next few years, but they probably will be only a brief reversal in a worldwide warming over the next two or three centuries.

Climatologists admit that their attempts to forecast weather on the basis of past cycles are risky. Most agree, however, that the world has grown warmer in the past half-century. Average temperatures in the Northern Hemisphere have risen about one degree Fahrenheit, the National Geographic Society says.

Short-term reverses have interrupted the general warming trend. Some climatologists believe the world now is in such a period. Taking past reverses as a guide, the current cold interval should end about 1965.

Warming Changes World
The over-all warming since 1900 has had a wide variety of effects. On the Canadian prairies, the crop line has moved 50 to 100 miles north. In parts of northern New England and eastern Canada, warmer weather has killed birch trees; spruce and balsam have suffered. In Sweden the timberline has climbed as high as 65 feet up mountain slopes since 1930.

The mockingbird, once the avian symbol of the American South, now awakens New Yorkers. The cardinal flashes at ever more northerly points. Turkey vultures soar over Massachusetts. White egrets stalk through Middle Atlantic marshes.

Opossums rarely went north of Virginia 50 years ago; now they are common in Massachusetts. Deer, moose, raccoons, and badgers have extended their range northward.

Even fish are migrating. The cod, once unknown in Greenland, has become a food staple of the Eskimos. Tuna have moved into the waters off New England; tropical flying fish are seen off New Jersey.

Glaciers have retreated in many areas. In Waterton-Glacier International Peace Park on the United States-Canadian border, several of the largest glaciers have disappeared in the 20th century. For a while it looked as if they might melt. Since 1950, however, they have held their own.

The sea level rose measurably during a recent 18-year period

when the effect of melting polar ice was studied. British climatologist C. E. P. Brooks has estimated that a worldwide temperature rise of only two degrees would eventually melt the polar icecaps, thus adding millions of cubic miles of water to the oceans. Sea water would partly submerge New York, London, and other coastal cities.

Ice Age Not Over
Some climatologists believe the earth is still emerging from the last ice age, which reached its climax about 10,000 years ago.

Ice ages seem to come in series separated by long, tropical epochs of about 250,000 years' duration.

During the past million years, at least four ice advances have occurred. If the cycle is not yet at an end, the next ice age might be expected in 10,000 to 15,000 years. Glaciers could once again creep across North America and Europe, swallowing up much of man's present habitat.

As the sun is practically the sole source of energy for the atmosphere, extremes of climate may be due to variations in radiation. Changes in the earth's orbit around the sun could also increase or decrease the amount of radiation that it receives.

Fluctuations in the amount of carbon dioxide gas in the atmosphere may also affect the climate. Carbon dioxide absorbs long-wave infrared radiation, and thus helps

retain the heat received from the sun.

When State scored 38 points against South Carolina it was four points more than the Wolf-pack had tallied in its five previous games. Both State and its opponents have each scored 129 points this year in nine games.



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