

Miniature Tornadoes Used To Get Jump on Spawning 'Twisters'

Fort Monmouth, N.J. — (U.P.) — They're making miniature tornadoes and "fingerprinting" lightning here in a drive to aid weather forecasters in getting the jump on brewing "twisters."

Later, scientists of the Army Signal Corps engineering laboratories hope to map storm winds by using aluminum "confetti" and radar.

These are some of the techniques Army meteorologists are employing in their cloud-physics research aimed at curbing the high tolls inflicted annually by tornadoes.

According to records here, more than 9,000 persons have been killed and more than half a billion dollars' worth of property has been wrecked in the past 40 years by tornadoes, which have been reported in every state. To combat the problem the meteorologists are pressing the attack in three directions.

Two Winds

One of their weapons is a laboratory tank in which they have broken a tornado into its basic elements in order to spawn miniature twisters.

The scientists say their "tornado tank" experiments verify an 1887 theory of William Ferrel, an early Signal Corps meteorologist. He believed that two separate winds, an updraft and a slow circulating current near the ground, must mingle to spawn a tornado. By themselves, these two types of wind are relatively harmless.

In the Fort Monmouth tank,

a glass-sided affair similar to a fish tank, water currents replace winds. Water sucked from the top through a glass tube creates the "updraft," while a slow rotating current is developed underneath.

Dr. H. K. Weickmann, developer of the tank, said that when the two currents clash there is a simulation of what happens in the big volume of air during a natural storm.

Another phase of the counter-attack on tornadoes is a plan to cast a 30-mile line of aluminum confetti, or chaff, in the path of a storm from a research aircraft.

Lightning Studied

The chaff, used during World War II to jam radars by causing confusing images on scopes, will be used to trace wind patterns in a storm. The chaff cloud will be tracked by ground and

airborne radars.

The drop, planned for next year's tornado season near Oklahoma City, is believed to be the first aluminum chaff-mapping will be tried in tornado research. The project had been planned for this spring or summer, but had to be postponed because of defense priority difficulties in securing the proper aircraft.

In the third phase of the tornado research the scientists are studying lightning from storms for characteristics that may identify them as potential tornadoes. Such a lightning "fingerprint," they believe, could give away a twister even before it formed.

Dr. Weickmann emphasized that the Signal Corps research is designed to provide the key to an early tornado alert and not to break up or prevent tornadoes.



More 'Glulam' Churches

A church built of hewn beams and rived planks—with not a little mud and hay—was an early work of Plymouth colony in 1621. And in the first year of the Pilgrims, a cargo of barrel-stave stock was the No. 1 shipment of the colony's products to the Mother country.

Now, 355 years later, lumbermen on the Northwest coast face a promise of record-breaking growth in church building, nationwide. The efficient "community church" is the newest element of the picture. The poor little denominational church with a minister on a scramble salary is of our yesterday's, a sacred memory. At the other extreme, the monumental church is going the way of the monumental school—and the way is out. The "glulam" type of church structure has no rival as a house of worship that has beauty, dignity, warmth and efficiency.

Arching laminated beams of Douglas fir, covered with fir or west coast hemlock, shelter tens of thousands of congregations every Sunday in all 48 states today.

The United Church

"Church union" is a mighty movement in the historic American Protestant denominations. The United Church of Canada, organized in 1925 by the Congregationalists, Methodists and Presbyterians of the dominion, is now matched by the United

Church of Christ, U.S.A., with 2,085,570 members, in 8,320 congregations.

A veteran Portland minister is at present the guiding genius of this movement, which unites four former separate dominations—the Congregational, the Christian, the Evangelical, and the Reformed churches. He is Dr. Raymond B. Walker, minister of the First Congregational church, Portland, for more than a quarter of a century. A Billings, Mont., parson before his call to Portland, Westerner Walker is chairman of the executive committee of the Congregational-Christian General council. His committee has carried out the church union directives of the General council, which meets every second year.

In mid-June the General council will convene again, at Omaha, while the General council of the Evangelical and Reformed church—the other major denomination of the union that is forming the United Church—will meet at Lancaster, Pa.

The councils first sealed approval of the union in 1947 and 1948. The physical and legal problems of uniting the organizations of mission boards, with stations in 18 countries, a dozen large hospitals, many colleges—Pacific university is one—and other properties, has been enormous. State conferences and synods are also in process of union. Now, in each case, there will be one denominational organization where, before 1931, there were four.

The Big Baptist Meeting

In Seattle, summer of 1931, the General convention of the Christian church (not the Disciples of Christ) and the National Council of the Congregational churches united as the General council of the Congregational-Christian churches. The United Church grew on from that action, through vital phases, in conferences with leaders of the Evangelical and Reformed church. It was approved by national delegates of both denominations in 1950, 1952, and 1954. In Cleveland next year the first General Synod of the United Church will hold its formal "uniting meeting."

The Northwest's greatest church meeting is also coming to Seattle in mid-June when the American Baptist convention will assemble there. The 10,000 who attend will all be working on their own way to union with other Baptist divisions. There are shining hopes of the outcome.

Anyhow—the Baptist architects and other building experts will go home with a bigger and better understanding of the values of the region's building products—that's for sure!



DEATH SENTENCE—John Gilbert Graham, 24, sits in Denver courtroom as the jury deliberates his fate. The jury of seven men and five women found him guilty of first degree murder and fixed his penalty at death. He was on trial for killing his mother and 43 others by blowing up an airliner.

Graham's Attorneys Will Ask New Trial

Denver — (U.P.) — Defense attorneys said today they plan to appeal John Gilbert Graham's murder conviction despite the condemned man's statement that he would not face the ordeal of a second trial.

A jury ruled late Friday night that the 24-year-old Denver man was guilty of first degree murder for killing his mother, Mrs. Daisy King, 54. Mrs. King was one of 44 persons killed when a United Air Lines DC6B exploded and crashed near Longmont, Colo., last Nov. 1.

Graham confessed he planted a dynamite bomb in his mother's luggage to collect her insurance.

Other officers elected Friday are Elton Petri, Ashland, vice-president; George Distell, Medford, recording secretary; Mrs. Gladys Chapin, Medford, corresponding secretary; Sam Evans, Jacksonville, treasurer, and Wes Coffeen, Medford, associate member representative.

Margaret, Husband Back From Nassau

New York — (U.P.) — Mr. and Mrs. E. Clifton Daniel Jr., an "old married couple," returned to New York last night from a two-week honeymoon in Nassau.

"We're an old married couple and we're not news any more," said Daniel, assistant to the foreign news editor of the New York Times.

His bride, the former Margaret Truman, let newsmen meeting the newlyweds at Idlewood Airport last night know who was the spokesman for the family.

"He does all the talking," she said, smiling and pointing to her husband when reporters asked for an interview. Margaret said she planned to resume her radio and television career "as long as it doesn't interfere with my husband's career."

Eisenhower Approves Official Photograph

Washington — (U.P.) — President Eisenhower has approved a new official presidential photograph.

The picture, of an unsmiling chief executive turned to his right shoulder, was taken by New York Times photographer George James April 16, the night Mr. Eisenhower broadcast his farm veto message.

While primarily approved by the President for his personal use, the photo will be one of the

Russia Urged To Restore Jewish Rights

Jerusalem — (U.P.) — The World Zionist congress appeal to Russia Sunday to restore the rights of its Jewish citizens and release thousands of Zionists from Soviet prisons.

The Zionist congress passed a resolution asking the Soviet Union to reappraise its approach to the Israeli question and referred to the recent Soviet Middle East proclamation of peaceful intentions.

The Family Council

Editor's Note: The Family Council consists of a judge, a psychiatrist, a newspaper editor, a women's page editor and two newspaper writers. These consult with clergymen of all faiths and denominations. All letters are held in complete confidence.

Lucy—Sister's headed for disaster. **Marian** — It would crush our parents.

LUCY—We have three sisters in our family, I am the oldest, Marian is next and Jenny, 17, is the youngest. Jenny has fallen in with some bad companions and seems headed for some real trouble. We are very much afraid she may have ruined her life already, but we cannot agree on what course we should take.

Jenny lies to our parents about her evenings. She recently fabricated an elaborate scheme for spending a week end with a man. This entailed getting a girl in another town to write her a letter inviting her to spend the week end with her. Marian and I knew this invitation was a phony, and we threatened that we would expose Jenny to our parents if she did not call the thing off.

Our expedient worked that time, but Jenny is now becoming more defiant. When we tried to stop her from visiting a man's home the other night, she became very brazen and threatened to tell our parents herself. This led almost to blows.

I feel as though Marian and I are over our heads and should tell our parents, but Marian disagrees.

Marian—I think Jenny is quite sophisticated and cynical. I agree with Lucy that Jenny has probably already ruined her life, but I do not feel it is necessary to confront our parents with the harsh facts. Jenny will not get into the kind of trouble that will readily become apparent. She will not be an innocent victim of anything, as she is quite "wise" in these matters. Her misdeeds will no doubt catch up with her in robbing her of a chance for a wholesome family life. But it will help no one to confront our parents with this harsh tragedy. They will be broken up about it, and they will be just as helpless as we are.

The Council: Jenny may not be quite as brazen as her sisters think. She may be bluffing a bit when she defies them to tell her parents. In any event, she should be asked to go with her sisters to the parents and have the matter out. Her brazenness may wilt if confronted with this show-down.

Marian's attitude assumes that the parents are not equal to the problem. Unless there is some compelling reason of health or unless she believes them to be

grossly incompetent as parents, she should not deprive them of an opportunity to cope with their youngest daughter's moral delinquency.

It is not impossible that Jenny's behavior may be, in part, a distorted revolt against being the youngest sister. Perhaps the older sisters are far less capable of influencing Jenny than the parents would be. However that may be, these older sisters are still young girls and are taking much more on themselves than they have any right to.

They should have a final show-down with Jenny. They should let her know that unless she agrees to toe the line in her behavior and keeps her promises, they will tell her parents; and they should make good on the threat unless Jenny shows unmistakable signs of improvement.

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Red Reign of Terror Reported in Tibet

Katmandu, Nepal — (U.P.) — The Chinese Communists are carrying out a "reign of terror" in Tibet and the capital city of Lhasa is "full of fear," reports reaching here from the Communist-occupied nation said today.

Reports, brought out by officials here for the coronation of Nepalese King Mahendra, said vast areas of the mountain theocracy were in revolt against the Chinese Communist "colonialists" and that tribesmen still were fighting the Reds.

Chinese authorities here for the coronation denied all such reports as "mere fabrication." Tibetan officials themselves say the Chinese "are very popular" in Tibet and that the Reds have "never interfered with the Tibetan religion."

Rural Electrification Administrator Resigns

Washington — (U.P.) — President Eisenhower today "reluctantly" accepted the resignation of Ancher Nelsen as Rural Electrification administrator.

Nelsen, whose resignation is effective May 15, quit to run for governor of Minnesota.

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Algeria Rebels Open Series of Attacks

Algiers, Algeria — (U.P.) — Algerian rebels launched a series of coordinated attacks against European farms in West Algeria today. First reports said 20 Europeans were massacred.

Authorities announced that a strong rebel commando group struck during the night against farmsteads in the Guiard, Beni-saf, Turgot and the Ain-Temouchent region in the western sector of the Oran department.

This is along the Moroccan border where the French have charged the Moroccans with letting arms pass into Algeria for the rebels.

The attacks over a wide area appeared well planned. French sources said. The Commandos slipped out of the night, struck the farms, murdered their occupants and then disappeared into the wild surrounding region.

pictures used by the White House in filling the "several thousand" requests for presidential photos which pour in annually.

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