ON THE AIR

WEDNESDAY PROGRAMS

CFCY-TV

1:30 P.M.—Musicale
2:00 p.m.—Chez Helene
2:15 p.m.—Nursery School
2:30 p.m.—Sing Ring Around
2:45 p.m.—Friendly Giant
3:00 p.m.—Lorrie Young
3:30 p.m.—Take Thirty
4:00 p.m.—Scarlett Hill
4:30 p.m.—Susie
5:00 p.m.—Razzle Dazzle
5:30 p.m.—Quick Draw McGraw
6:00 p.m.—TBA
6:15 p.m.—News at longer
6:31 p.m.—Gazette
7:01 p.m.—CFCY TV News
7:15 p.m.—Keyboard Melodies
7:30 p.m.—Hennessey
8:00 p.m.—Robin Hood
8:30 p.m.—The Pursuers
9:00 p.m.—My Three Sons
9:30 p.m.—Parade
10:00 p.m.—Ben Casey
11:00 p.m.—Newsmagazine
11:30 p.m.—Explorations
12:00 p.m.—CBC TV News
12:15 a.m.—Local Weather
12:14 p.m.—Viewpoint
12:20 a.m.—Sign Off

CKCW-TV

12:45 p.m.—Station Sign On
News, Weather, Sports
1:00 p.m.—Wednesday Playbill
The Temptress
3:30 p.m.—Sing Ring Around
2:45 p.m.—Friendly Giant
3:00 p.m.—At Home With
Helen Crocker
3:30 p.m.—Take Thirty
4:00 p.m.—Scarlett Hill
4:30 p.m.—Romper Room
5:01 p.m.—Razzle Dazzle
5:30 p.m.—Huckleberry Hound
6:00 p.m.—Supper Club
6:15 p.m.—Television News
6:25 p.m.—Supper Club
6:35 p.m.—Television Weather
6:40 p.m.—Supper Club
6:50 p.m.—Television Sports
7:00 p.m.—Maverick
8:00 p.m.—Summarizing Sports
8:30 p.m.—To Tell The Truth
9:00 p.m.—My Three Sons
9:30 p.m.—Parade
10:00 p.m.—Ben Casey
11:00 p.m.—News Magazine
11:30 p.m.—"Man In A Landscape"
12:00 p.m.—CBC TV News
12:15 a.m.—Viewpoint
12:20 a.m.—CKCW TV News

TV. CALLS
NITE or DAY
Day 4-3537 Nite 4-4582—4-7462
VAIL'S RADIO & TV.
204 Kent St. Ch'town

CFCY RADIO

WEDNESDAY

4:28—Sign On
4:30—News and Weather
4:35—Country and Western Roundup
5:55—News and Weather
7:00—Hebrew Christian Hour
7:15—Country and Western Roundup
7:30—News and Weather
7:35—CFCY Farm News
7:41—Country & Western Roundup
8:00—News
8:01—Weather
8:16—Country & Western Roundup
8:45—Weather
8:50—Atlantic News
8:57—Thought For Today
9:00—CBC News and Voice Report
9:10—Preview Commentary—CBC
9:15—Notes & Music
10:00—News & Weather
10:05—Notes and Music
10:20—Notes and Music
11:00—News Headlines and Weather
11:05—Notes & Music
11:45—Bulletin Board
11:50—Notes and Music
11:55—Atlantic News
12:00—Weather
12:05—Mostly Music
12:30—News and Weather
12:45—Mostly Music
1:00—News Headlines and Weather
1:02—Interlude
1:10—Matinee With Willis
1:15—Tommy Hunter—CBC
1:45—Mostly Music
2:00—News and Weather
2:05—The Chuckwagon
3:15—Hits and Encores
3:00—News Headlines & Weather
3:03—Trans-Canada Matinee-CBC
3:30—Hits and Encores
4:00—News Headlines & Weather
4:03—Canadian Roundup—CBC
4:10—Hits and Encores
4:30—The Outports
5:00—News and Weather
5:05—The Outports
5:25—Marine Weather
5:28—The Outports
6:00—News and Weather
6:15—Parliament Hill—CBC
6:20—Sports Parade
6:30—Tonight's Music
7:00—Back to the Bible
7:30—News and Weather
7:45—Byline
7:50—Program Schedule
7:51—Interlude
8:00—Introduction to Wednesday Night—CBC
8:05—CBC Wednesday Night—CBC
9:00—National News—CBC
9:30—CBC Wednesday Night—CBC
10:00—News and Regional Weather
10:05—Starlight Serenade
11:30—News and Maritime Weather
11:35—Starlight Serenade
12:00—News, Regional Weather & Sports Scores
12:05—Sign Off.

CBA

WEDNESDAY

6:00—The Gerry Fogarty Show Part 1
8:00—News and Inland Weather
8:15—Maritime Spotscast
8:21—The Gerry Fogarty Show Part 2
8:24—The Bob Goulet Show
8:30—Gerry Fogarty Show Part 3
8:35—The Max Ferguson Show
9:00—CBC News & Direct Reports
9:10—Preview Commentary
9:16—A.M. Chronicle
9:10—Count Your Blessings
9:15—Playroom
9:30—Music Diary
1:00—CBC News
1:05—Joan Marshall
1:15—For Consumers
1:20—Record Album
1:30—The Archers
1:45—Record Album, part 2
1:55—Matinee With Willis
2:00—Jamboree Junction
2:15—Chuckwagon
2:25—Jamboree Junction
12:30—Maritime Farm B'cast
1:00—CBC News & Inland Weather
1:15—Tommy Hunter Show
1:45—Time Out For Melody
1:59—Dom. Ob. Time Signal
2:00—Time Out For Melody
2:15—Time Out For Melody
2:45—John Drainie Tells A Story
3:00—CBC News
3:03—Trans-Canada Matinee
4:00—CBC News
4:03—Canadian Roundup
4:10— Styled by Eleanor
4:30—Countdown
4:45—Music In The Air
5:00—Maritime Fish B'cast
5:20—Tempo, CBC Notebook
6:00—CBC News & Inland Weather
6:15—On Parliament Hill
6:20—Regional Commentary
6:25—Maritime Sportscast
6:30—Music in the Evening
6:45—Music In the Evening
7:15—Byline
7:20—Marine Weather & Musical Interlude
7:30—Assignment
8:00—Introd. to Wed. Night
8:05—Vivaldi Program
8:30—Drama 'The Green Tiger
10:00—Nat. News Roundup
10:30—Festival Singers
11:00—Bill Of Fare
12:00—Sports Score & Marine Weather
12:00—Inland Weather

Wide Control Of Climate Generates Great Interest

By FRANK CAREY

WASHINGTON (AP)—In this theoretical situation, a big Russian cargo planes have managed to slip through North America's radar defences and are circling the Arctic ice cap.

The planes drop hundreds of tons of pulverized coal dust on to the ice cap until it's covered with a black blanket a fraction of an inch thick. The planes head back to Russia.

The rays of the sun, absorbed by the black blanket, begin to melt the multi-million-square-mile ice pack. Over the months and years following, the waters from the melted pack rush down along the Pacific and Atlantic shorelines — flooding coastal cities.

Warm air and moisture, rising now from the open, warmed up Arctic Ocean, mix aloft in the winter months with cold air from adjacent continents. This creates cyclones over large areas, deposits heavier snowfalls than usual on coastal areas, increases the size of existing glaciers and causes new ones to form.

Eventually a new "ice age" prevails — extending from Arctic regions even to the middle latitudes.

Fantastic and impractical? Of course.

BIG SOWING JOB

For one thing, it would take more than 1,500,000,000 tons of coal dust to cover the Ice pack with a blanket only one-fiftieth of an inch thick. That's more than twice the annual output of all U.S. coal mines.

Spreading the blanket would require hundreds of planes for only a single application. There would have to be repeated sorties because the dust would blow away.

Even if those drawbacks were surmounted, the Russians themselves would suffer from the resultant floods and ice age.

Yet the spreading of soot on the Arctic ice pack is one of the bizarre things that have been suggested seriously as a means of giving man control over the weather.

Knowledgeable meterologists have challenged the feasibility and practicality of the Arctic soot-sowing idea.

They've also lambasted other sensational ideas—such as using H-bombs to melt the ice pack. They point out that it would take 4,000,000 big H-bombs just to melt the Greenland ice pack alone.

IDEA PERSISTS

Still, the idea of making broad, remotely controlled changes in weather and climate continues to persist.

Vice-Admiral William Raborn, the U.S. Navy's research chief, said in a recent article in a Navy publication:

"The possibilities for the military employment of the "weather weapon" may be as diverse as they are numerous.

"Large-scale weather control techniques might (eventually) be used to cause extensive flooding of strategic areas or even bring a new 'ice age' on the enemy." Raborn didn't say how he thought such an ice age might be created.

Top civilian meteorologists feel science has not yet learned, in dependable fashion, to modify or control weather artificially on a local scale—let alone trying to do it on the global scale that might be required for employing the weather as a weapon.

Much more knowledge of nature's own ways of "making" the weather and climate must be acquired before man can hope to control them with any significance, even in a limited way, for either peaceful or military pursuits.

They say any attempts to effect large-scale changes, without having such knowledge of nature's tricks, might boomerang disastrously on a nation initiating them and harm millions throughout the world.

MAKE NEW SUN

Russian scientists, claiming interest only in the humanitarian aspects of weather control, have suggested such things as:

1. Putting an artificial sun in orbit around the earth. This presumably would consist of a gigantic thermonuclear furnace that might allow sunlike influences on the weather in any part of the world.

2. Melting the Arctic ice cap by damming up the Bering Straits and forcing relatively warm Pacific Ocean water into the Arctic basin with nuclear-powered pumps.

3. Levelling mountain ranges with nuclear explosives in order to change the climate to their leeward.

And from other sources more ideas have come up.

One is to see the Arctic ice cap melted by exploding H-bombs in open areas of the Arctic Ocean. The resultant steam would be supposed to create a five-mile-thick ice crystal cloud which in turn would keep infra-red heat from leaving the earth, thereby melting the ice.

Underwater nuclear explosions have been suggested to change the topography of the ocean bottom, causing shifts in the climate — controlling Gulf Stream in the Atlantic and the Japanese Current in the Pacific.

RAIN FOR DESERT

It was suggested passages in the Sierra Nevada mountains could be opened with nuclear detonations to permit passage of moist air into the Nevada desert.

One idea is to use rockets to hurl into orbit hundreds of tons of man-made "meteoric dust." The latter would be designed to spread around certain parts of the world, interfering with the usual solar radiation and possibly increasing rainfall in certain areas.

Since 1958, the U.S. National Science Foundation has conducted research in weather modification. NSF scientists say there is statistical evidence that under certain conditions seeding of clouds with chemicals is associated with some increase in rainfall.

But they also say full scientific proof as to the value of cloud seeding is still lacking and "we don't know yet whether significant economic benefit can be arrived at with such techniques."

Research has ranged from new studies of cloud-seeding techniques to a venture in Urbana, Ill., with an "electrical wind."

The latter was generated by sparking a high voltage in two four-mile lengths of electric wire criss-crossed 30 feet above the ground. The "wind" shot upwards into a passing cloud, producing some rain.

WATCH WORLD SCENE

The foundation also keeps tabs on weather-control studies all over the world, including:

1. Russian reports of using powerful sound generators atop mountain peaks to study the possibility of using sound waves to increase rainfall.

2. Reports of Communist Chinese attempts to accelerate the melting of glaciers in North Central China by blackening the glacial surfaces with coal dust or burned grass and wood.

3. Hail-suppression research in Argentina, employing 20 silver-iodide generators located on the east slope of the Andes. The generators burn iodide-impregnated charcoal placed in wire baskets inside a chimney.

But NSF scientists say that no sensational breakthroughs have been achieved either in the United States or abroad, as far as is known.

"It is clearly evident," says Dr. Alan T. Waterman, NSF director, "that a truly formidable scientific problem must be solved before we can learn how to control local weather effectively or modify the climate. However, this problem may be no more formidable than problems that have been solved by this generation of scientists in other fields, such as the degree of control we have over nuclear energy."

IS TOP MARKET

South Africa is the United States' major market in Africa and takes more than 35 per cent of U.S. exports to the continent.

RIPLEY'S BELIEVE IT OR NOT

DAILY CROSSWORD

ACROSS

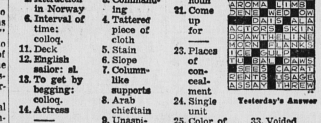
1. Attraction in Norway
6. Interval of time: colloq.
11. Deck
12. English sailor: ab.
13. To get by begging: colloq.
14. Actress — MacMahon
15. Compass point: abbr.
16. Traps
17. Mechanical men
20. Left (by ship) on a journey
22. God of thunder
26. Females of red deer
27. River through Paris
28. Units of work
29. Phrased
30. Dance step
32. Architecture of some churches
35. Hardwood tree
38. Diana's victim: Myth.
39. Stewed fruit
41. Apportion
42. Entrance
43. Narrates
44. Relieves

DOWN

1. Confront
2. Persia
3. Commanding
4. Tattered piece of cloth
5. Stain
6. Slope
7. Column-like supports
8. Arab chieftain
9. Unaspirated consonant
10. Lieutenant
16. Turf
18. Describing conservative gentlemen (2 wds.)
19. God of pleasure
20. Pronoun
21. Come up for
23. Places of concealment
24. Single unit
25. Color of traffic stop sign
27. Call for help
29. Member of Women's Army Corps
31. Cues
32. Mascot of Annapolis
33. Volded escutcheon
34. Money-drawer
36. Measure of land
37. — to the Kingdom"
39. View
40. Prescription term

Yesterday's Answer

GLACE DARIO
ORATE ERIE
AROMA RIMS
DENIES ORE
DAIS ANA
ACTORS SHIN
TIE ALE
MOON FRANKIN
ELI BAR DANE
SCENTS ISAGE
ASSIAN THREW



CONTRACT BRIDGE

By B. JAY BECKER

West dealer.
North-South vulnerable.

NORTH
♠ 9643
♥ A Q 5 4 3 2
♦ 6
♣ 6 5

WEST	EAST
♠ 2	♠ Q 8 5
♥ J 10 8	♥ 6
♦ A K Q 8	♦ 9 8 7 3 2
♣ K 10 9 4 2	♣ A Q 7 3

SOUTH
♠ A K J 10 7
♥ K 9 7
♦ J 10 4
♣ J 8

The bidding:

West	North	East	South
1 ♣	Pass	2 ♦	2 ♠
3 ♣	3 ♠	5 ♦	Pass
Pass	6 ♠	Pass	Pass

Opening lead—king of diamonds.

This hand occurred in a duplicate pair tournament, but the principle it features would be equally applicable in rubber bridge.

North elected to sacrifice against five diamonds, hoping South would go down only one for minus 200 points and thus prevent East-West from scoring 400 points for making five diamonds.

The idea was good, and should have been rewarded, but South misguessed the trump situation and wound up going down two — 500 points — for a poor score.

West led a diamond and then shifted to a low club. East took the ace and returned a club, the jack losing to the king. West returned the jack of hearts.

Declarer had lost three tricks and now had to make the rest to avoid a deadly score of minus 500. He won the heart with the king, cashed the ace of spades, ruffed a diamond in dummy, and then led a spade, on which East followed low.

The question now was whether to finesse or play for the drop of the queen. After considerable thought, South guessed wrong and went down two.

It is true, mathematically, that declarer is better off in the long run to play for the drop rather than finesse when he is missing Q-x-x-x of a suit. However, this was a special case where South should have finessed.

The reason becomes evident if declarer, at the crucial point, assumes that West started with Q-x. This would be the only justification for playing the king.

However, such an assumption is not valid because it would mean that West could not have made five diamonds (losing two spades and a heart), and this in turn would mean that minus 200 points would lead to a bad score.

Declarer therefore must assume that the spades are divided 3-1, and consequently must finesse to justify the sacrifice bid. He is bound to do sadly if he plays for the drop, and can get a good score only if he chooses to finesse.

DAILY CRYPTOQUOTE — Here's how to work it:

A X Y D L B A A X R
is L N G F E L L O W

One letter simply stands for another. In this sample A is used for the three L's, X for the two O's, etc. Single letters, apostrophies, the length and formation of the words are all hints. Each day the code letters are different.

A Cryptogram Quotation

VXBIB OIB YMIB LBIENWNMDA
ENABOABA MU VXB AMDR
VXOB MU VXB FMHZ—WNWBIM

Yesterday's Cryptoquote: IT IS MORE DISCREET TO BE SILENT THAN TO SPEAK.—EPICTETUS

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OUR BOARDING HOUSE MAJOR HOOPLE — JOE PALOOKA

GRANDMA — MICKEY MOUSE — SECRET AGENT X-9 — ETTA KETT — NUBBIN — HENRY — THE LONE RANGER — MUGGS & SKEETER — L'IL ABNER