

FORECAST

CANBERRA: Showery. Cold winds. Max. 47.
LAKE: Wind westerly, gusts 15-25 knots.
S. TABLELANDS: Cold winds. Snow above 3,000ft.
S. COAST: Strong wind, rough seas warning.
Weather details, capital city forecasts, tides, — Page 12.

The Canberra Times

To serve the National City and through it the Nation

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TUESDAY, JULY 22, 1969

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Mrs Collins laughs with relief at Apollo-11's success.



Mrs Armstrong keeps her fingers crossed after news of her husband's moon landing. — AAP-AP radio pictures.



Mrs Aldrin appears surprised at the lunar landing's success.

600 million see walk

From AAP-Reuters reports.

Apollo wives relieved and happy

HOUSTON, Monday (AAP-Reuters). — Amusement competed with joy last night when the wives of the Apollo-11 astronauts saw man's first steps on the moon.
It was a happy smiling, and visibly relieved Janet Armstrong who faced 150 newsmen in front of her home a little more than two hours after her husband Neil reported he and Edwin Aldrin had landed safely on the moon.
Her eyes looked tired. But she was laughing, bantering and exchanging small talk with pushing, crowding, shouting reporters, photographers, and neighbours.

About 600 million people, or one fifth of the world population, watched live television pictures of man's first steps on the moon yesterday.

The European Broadcasting Union estimated in Geneva that 49 countries, including most of eastern Europe, received the pictures from the moon.

They were beamed to Europe via communications satellites over the Pacific and Indian Oceans and ground stations in Australia, Japan and Britain.

Neil Armstrong, 38, became the first man to step on the moon at 12.56pm Canberra time yesterday, saying, "That's one small step for man, one giant leap for mankind."

Edwin Aldrin, 39, pilot of the lunar module Eagle, followed him 20 minutes later. They stayed about two hours.

Last night Armstrong and Aldrin

were secure again in the lunar module. Apollo-11 mission control at Houston, Texas, early this morning reported that Armstrong was sleeping fitfully. Aldrin was not "plugged in" for biomedical information.

At 3.55 this morning Canberra time, if everything went to plan, Armstrong and Aldrin were to fire their ascent engine to lift off from the moon's surface and rendezvous with the orbiting mother ship Columbia, commanded by Michael Collins.

At 2.57 this afternoon, they were to fire the main engine of Columbia and begin their journey back to earth.

They will bring back samples of moon soil, fine and powdery, and samples of the solar wind (the upper atmosphere of the sun, which streams through space). They left on the moon the United States flag, a plaque and experiments that will continue to help scientists.



INSIDE

One giant leap . . . Page 2.

How the astronauts described their lunar landing and walk on the moon. — Page 5.

Millions of people throughout the world celebrated yesterday the Apollo-11 triumph as world leaders sent messages of congratulations to President Nixon. — Page 4.

Canberra and Australia came to a standstill yesterday. — Page 6.

Space-tracking teams at Australian installations are proud of a half job done well. However they still have to help bring Apollo-11 back to earth. — Page 6.



Astronaut Alan Bean, who as lunar module pilot on the Apollo-12 mission will be on the second flight to attempt a landing, watches the Apollo-11 moon landing with some anxiety. — Radio picture.

Troops hit by own mines

NUI DAT, Monday (AAP-Reuters). — Two platoons of Australian infantry suffered heavy casualties today from mines believed to have been carried off by the Vietcong from minefields laid in 1967 by Australian troops.

[An army spokesman in Canberra said last night reports had been received that two soldiers had been killed and others had been wounded in the incidents. He declined to say how many had been wounded and said no names would be released until next-of-kin had been advised. Unofficial army sources said the number of wounded was "between 15 and 20".]

The two 33-man platoons were mown down by flying shrapnel within three hours of each other and 1,000 yards apart, eight miles from this base 40 miles east of Saigon.

The mines were of the American M-16 variety which jump 3ft into the air when triggered and spray shrapnel over a wide area.

Australian officers said they believed the Vietcong had taken the mines from a minefield laid in Phuoc Tuy province two years ago.

This is now being cleared by Australians whose officers said the field

has "outlived its usefulness".

More than 20 Australian and Vietnamese soldiers have been killed and about 100 have been wounded by mines near Nui Dat in the last two months.

The two platoons involved today were from a company of the 6th RAR-NZ (Anzac).

The first platoon was moving along the edge of a paddy field on a reconnaissance in force near fire support base 'Thrust' when a mine exploded.

Three hours later, and about 1,000 yards away, a second mine exploded among a second platoon. Casualties from both explosions were carried by helicopter to the First Field Hospital at Vung Tau.

In another mine incident in the same area near the village of Dat Do, two Vietnamese civilians were injured when they detonated a mine.

Death, injuries in Vietnam. — Page 3

Malay students want apartheid

Malay student leaders claiming to represent 27,000 Malay students throughout Malaysia have said that the Chinese in the federation should be deprived of citizenship and forced to live in "apartheid" under Malay domination. If they refused to accept this all-out war should be waged on them. — Page 7.

WHEAT

A proposal calling for a no restriction policy in Australian wheat production will be discussed this week by the Federal ALP executive. — Page 3.

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Beautiful

In the Aldrin home, Joan Aldrin stood up two minutes before touchdown. She was unable to sit any longer. When the landing came, she said in an interview outside later, she stood under an umbrella, flashing a smile, animated and happy.

With her were her three children. "I'm still not able to believe it," Mrs Aldrin said. "It is more than the human mind can comprehend — especially mine. I was leaning against a wall, or maybe it was leaning against me."

Pat Collins, wife of the command module pilot who remained in lunar orbit met the Press in her front yard. "I thought it was positively beautiful," she said. "I wasn't nervous. I was excited. Very excited. As a matter of fact, those men up there are a lot calmer than I am."

Praying

The kids thought it was great. They were telling us. They're down. They're down."

Mrs Collins told reporters her husband was not disappointed with his role. "Don't you think he's probably with them in spirit?" she told a reporter. "He doesn't sound a bit disappointed to me."

WAPAKONETA, Ohio, Monday (AAP-Reuters). — "Praise God from whom all blessings flow," exclaimed Mrs Stephen Armstrong, mother of astronaut Neil Armstrong, in recounting how she felt yesterday when the spacecraft touched down on the moon.

"I was just hoping and praying that everything would go well," she told reporters outside the Armstrong home less than an hour after the safe lunar landing.

Armstrong said the moon's surface reminded him of some American desert country. But it has a beauty of its own, he said. "It's very pretty up here."

Aldrin was impressed most of all by the "variety of shapes, angularities, and other granularities" of the rocks and soil where Eagle landed.

Eagle landed in the Sea of Tranquility at 6.18am Canberra time after Armstrong had manoeuvred the craft manually to avoid landing in a "football-field"-sized crater at the target landing site.

The world waited as Aldrin counted out the progress of the descent step by step. Finally

Armstrong broke the tension, with the words, "Tranquility base here. The Eagle has landed."

Both men reported little difficulty in moving about in the gravity force of the moon, one-sixth of the moon's.

The pair walked slowly and warily at first, aware that one false move could bring instant death on the airless, grey lunar desert.

But as their confidence mounted they jumped, bounced and kangaroo-hopped gaily in front of their landing craft, taking advantage of the reduced gravity.

With television trained constantly on the astronauts, the dream of centuries became almost matter-of-fact routine

Planted flag

three hours of life on the moon, the astronauts went about their work with the calmness of a Sunday afternoon gardener on earth.

They set up on the moon instruments that will continue to give scientists information for some time.

Although their steps made no sounds on the airless surface of the moon, their running conversation with each other and with earth more than 200,000 miles away seemed to keep them from any sense of isolation.

Above them the sky was black, filled with stars brighter than they appear on earth, with the earth itself showing directly overhead.

They spoke of light and dark greys as the principal, but not the only, colours.

MOSCOW, Monday (AAP-Reuters). — Moscow television broadcast today seven minutes of film of the walk, but in general the Soviet Union maintained its low-key treatment of the event.

By the time the recording of the walk was shown on television just after 10am Moscow time (5pm AEST) the official Tass news agency had devoted a total of five paragraphs to the Apollo saga.

On television the news came after a report that Soviet leaders had left for a scheduled visit to Poland.

The former US Vice-President, Mr Humphrey, met with the Soviet Prime Minister, Mr Kosygin, today during a private visit.

Mr Humphrey said Mr Kosygin had been very complimentary about the landing on the moon.

He said Mr Kosygin expressed his personal good wishes to the Apollo crew.

The Soviet Luna 15 swooped over Apollo 11's lunar landing site today and two theories emerged on its mission — that it was to spy on the American moonmen or to rescue them in case their takeoff failed.

United Press International reported. Tass said Luna's latest orbit carried it as close as 9.9 miles from the moon's surface and over the Sea of Tranquility, where Apollo-11 landed. Scientific sources still thought the Soviet unmanned craft was designed to land, scoop up some moon soil and return to earth. It was too late now to do that before the Americans if, indeed, that had been its aim.



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R. T. WHYTES
KINGSTON & MONARO MALL

LONDON, Monday (AAP-Reuters). — Millions of people, government leaders and newspapers throughout the world hailed the successful landing of Apollo-11 on the moon.

Cheers echoed through Trafalgar Square, the heart of London last night as the astronauts landed.

The cheer, almost a scream of delight, symbolised the feelings of millions of Europeans watching the historic moment live on television.

Men and women, some with babes in arms, crammed between the Trafalgar fountains as Apollo-11's touchdown was flashed on a giant screen.

"Thank God they've made it," a woman cried.

London's newspapers announced the entry of the new era with massive headlines. The Daily Sketch proclaimed, "Moon men land — with Russia on their tail".

The Queen and her family watched the moon landing on television at Windsor Castle.

The Queen said today she was filled with admiration for America's astronauts.

In a message to the President, she said, "I send my warmest congratulations to you, to the crew of Apollo-11, and to the American people on the historic occasion of man's first landing on the moon".



Mr Nixon telephones to the moon.—AAP-AP radio picture.

... this certainly has to be the most historic telephone call ever made

PRESIDENT NIXON AT THE WHITE HOUSE

HOUSTON, Texas, Monday (AAP-Reuters). — President Nixon spoke from Earth direct to Armstrong and Aldrin on the moon today and congratulated them on their historic landing.

The President, whose remarks were relayed via the manned spacecraft centre, told the astronauts, "I'm talking to you by telephone from the Oval Room of the White House and this certainly has to be the most historic telephone call ever made."

"I can't tell you how proud we

all are of you for every American, this has to be the proudest day of our lives."

"People all over the world, I am sure they too join with Americans in recognising what an immense feat this is."

"Because of what you have done, the heavens have become a part of man's world."

"And as you talk to us from the Sea of Tranquility it inspires us to redouble our efforts to bring peace and tranquillity to earth."

"For one priceless moment in the whole history of man all the

people on this earth are truly one: one in their pride in what you have done and one in our prayers that you will return safely to earth".

"Thank you, Mr President", Armstrong replied.

"It is a great honour and privilege for us to be here representing not only the United States but men of peace of all nations, men with interest and the curiosity of man's exploration of the future. It is an honour for us to be able to participate here today."

President Nixon then added, "And thank you very much and I look forward — all of us look forward — to seeing you on the Hornet (the US Navy's Apollo-11 recovery aircraft carrier) on Thursday (July 24)".

Aldrin then ended the conversation by saying, "Thank you very much, Sir".

direct this power of man which soars starward into strengthening the bonds of peace and brotherhood on earth".

Indian newspapers, able to report the landing in their first edition, used huge headlines. The National Herald bannered the news in two-inch high letters in red.

Several thousand New Yorkers braved rain to watch the moon-walk on huge television screens erected in Central Park.

The Eastern Sun newspaper in Singapore set up a special telephone service to inform the public of the latest developments and an editor said they received 1,000 calls during the night.

'Unheard-of audacity'

Malaysia's supreme Head of State, Sultan Sir Ismail Nasiruddin Shah, and the Prime Minister, Tunku Abdul Rahman, sent congratulations to President Nixon and the American people.

Malaysians followed the astronauts' progress on their radios.

United Press International reported Cardinal Leon - Etienne Duval, Archbishop of Algiers, described the Apollo-11 mission as an "unheard-of feat of audacity" in a prayer for the safety of the three US astronauts.

MOONSTRIKE

LONDON, Monday (AAP-Reuters). — The successful moon landing means a £10,000 (\$21,430) win for bachelor Mr David Threlfall, 26, who bet that the feat would be accomplished before 1971.

Mr Threlfall laid £10 (\$21.43) at odds of 1,000 to one in 1964 that a human would set foot on the moon or any other planet, star or heavenly body of comparable distance from the earth before January 1, 1971.

A spokesman for his bookmaker said: "We stand to lose more than £41,000 (\$87,000) if both the Americans and the Russians land before 1971".

Dominant emotion

Italy's President Saragat hailed the landing as an almost superhuman event. The dominant emotion was gratitude to the American people, who "have given humanity such a great victory and who have democratically accepted that, in victory or defeat, the whole world should be its witness", he said.

According to the Italian state radio and television (RAD), more than 21 million Italians were either watching television or listening to the radio when the astronauts landed.

South Vietnam's President Thieu cabled congratulations to President Nixon.

Chileans danced in the streets of Santiago, Chile, and rushed out of restaurants to "look at the moon", forgetting it was mid-afternoon and the moon could not be seen.

Czechoslovaks got the news in Prague just 45 minutes after touchdown. Dr Zuhos Perek, the director of the astronomical institute of the Czechoslovak Academy of Sciences, called the manned landing a triumph of the human spirit.

Arab radios interrupted their bulletins on the latest Arab-Israeli battles across the Suez Canal to announce the landing minutes after the event.

Amman Radio interrupted its programmes to say, "Mankind has scored a glorious victory at this moment".

A radio station in Beirut broadcast the landing live, then Feirouz, one of the Middle East's top female singers, began a song called "Oh, Moon I Am With You".

The Pope hailed the astronauts as conquerors of the moon and said man now looked forward to "the expanse of endless space and a new destiny", the Associated Press reported.

Voice of America

The 71-year-old pontiff followed the lunar landing on colour television in the pontifical observatory at Castel Gandolfo, his summer retreat south of Rome.

In Belgrade, millions of Yugoslavs watched last night's direct television relay on the touchdown, either at home or on special cinema screens set up in the streets of the capital.

In Warsaw about a thousand Poles, jammed into the main lobby of the US Embassy, applauded and cheered as they watched Polish television's live transmission.

Streets of most West German cities were deserted as millions of viewers watched television coverage by satellite of the moon landing.

Chancellor Kiesinger said he had already cabled President Nixon his congratulations.

Millions in South Africa, where television is banned, stayed by their radio sets for several hours listening to a Voice of America commentary relayed by the South African Broadcasting Corporation.

"They made it, they made it," exclaimed an elderly lady in front of a television set in Oslo, Norway, the Associated Press reported.

New Zealand's Prime Minister, Mr Holyoake, listened to the moon land-

Russians not so excited by it all

MOSCOW, Monday (AAP-Reuters). — The Soviet Union, with its own spacecraft circling close to the moon, rated the American lunar landing as second-rate news worth only a brief mention in regular news programmes.

As the lunar module was descending on the moon's surface Moscow Radio was broadcasting a review of the week's sporting events and Moscow television was transmitting a film on the life of a long-dead Polish opera singer.

Neither radio nor television broke into their programmes to give the news.

The Mayak news and light music radio station reported the landing some 12 minutes after it took place but the official Tass news agency took 24 minutes to put out a two-paragraph item in its home service.

Moscow television devoted some eight minutes of its final news programme of the day — which began half an hour after the landing to attacks on US "aggression" in Vietnam.

The television announcer read the Tass report of the landing almost as an afterthought as his last item.

Five minutes before the scheduled touchdown by the Apollo module, the incoming news wires of all four major international news agencies in Moscow broke down. The lines were restored five minutes after the landing.

China silent

BELGRADE, Monday (AAP-Reuters). — Chinese newspapers and radio have kept completely silent about the Apollo-11 flight, the Yugoslav news agency, Tanjug, reported yesterday from Peking.

The agency said it was likely that the Chinese public would not be told about the arrival of the first men on the moon.

Only a small number of Chinese are aware of the American space flight, such as those in posts where it is normal to know what is happening in the world and those working in foreign diplomatic missions in Peking, Tanjug said.

East Germany's official news agency, ADN, sandwiched a 15-line sentence reporting the landing between its coverage of the latest Middle East fighting — seven minutes after the event.

The agency had been giving roughly equal play to the Russian and American space ventures all day.

Communion on the moon

SPACE CENTRE, Houston, Monday (AAP). — Astronaut Edwin "Buzz" Aldrin carried a small piece of bread with him to take communion after touchdown, United Press International reported today.

"It was Buzz's idea to take communion to the moon," said his Presbyterian pastor, the Reverend Dean Woodruff. "He said he intended to commune right after touchdown".

Mrs Joan Aldrin wept when she attended church yesterday and saw Pastor Woodruff hold up two unsliced halves of a loaf of white bread.

"This loaf is not complete," he said. "Two weeks ago Buzz took part of the loaf with him. Now

we shall commune with him. He is one of us". [Each astronaut is allowed to take a half-pound of personal items aboard the spacecraft, usually things such as trinkets or medals.]

Not far away, Mrs Pat Collins and her three children went to St Paul's Catholic Church.

At the home of the Apollo-11 commander, Neil A. Armstrong, in El Lago, Texas, Mrs Janet Armstrong and her two sons, Eric, 12, and Mark, 6, held a devotional in her bedroom.

NEW YORK, Monday (AAP-Reuters). — Prayers were offered in churches, cathedrals, synagogues and temples across the US for the safety of the astronauts.



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On the moon

ASTRONAUTS TELL THE WORLD

HOUSTON, Monday (AAP-Reuter). — "That's one small step for man, one giant leap for mankind". These were the words with which Neil Armstrong took man's first step on the moon.

Following is a partial text of the words of Armstrong and Edwin (Buzz) Aldrin on the surface of the moon.

Eagle is the lunar module landing ship. Columbia is the command ship piloted by Michael Collins. Tranquillity Base is Eagle's touchdown point. Capcom is ground capsule communicator. Bruce McCandless PAO is the space agency public affairs officer.

Armstrong: Everything is going here, we're just waiting for cabin pressure to blow enough to open the hatch . . .

Capcom: We see relatively static pressure on your cabin. You think you can open the hatch at about .150 PSI (pounds per square inch)?

Aldrin: We're going to try it.

Armstrong: The hatch is coming open. (Aldrin assisted and advised Armstrong on his way out of the hatch).

Aldrin: Okay, move right up there. (garbled). Over towards me. Lean out a little bit. You're lined up nicely. Toward me a little bit. Down. Okay, now you're clear. (garbled). Roll to the left. Okay, now you're clear. You're lined up on the platform. Put your left foot out a little bit. Okay, that's good. Hold that. Okay, you're not quite squared away. Over to the right a little bit. You're even. That's good. Go slowly on the first step. You're doing fine. (garbled). Steady.

Armstrong: Okay, Houston, I'm on the porch.

PAO: Neil Armstrong on the porch at 109 hours, 19 minutes, 16 seconds.

Armstrong: Okay, should I climb, Buzz?

Aldrin: Hold it just a second.

Armstrong: Okay . . .

That's one small step for man, one giant leap for mankind: Armstrong puts a foot on the moon

though the surface appears to be very fine grained as you get close to it. Like powder. (garbled). Okay I'm going to step off the LEM now. That's one small step for man, one giant leap for mankind. The surface is fine and powdery. I can kick it up loosely with my toe. It adheres in fine layers like powdered charcoal to the sole and the sides of my boots. I can see footprints, prints from the tread in the fine sandy particles.

There seems to be no difficulty in moving around . . . It's even lots easier than the simulations at one-sixth G (one-sixth the earth's gravity) that we performed in various simulators on the ground. Essentially no trouble to walk around. The (Eagle) descent engine did not leave a crater of any size. It is about one foot down into the ground and we have essentially a very level place here. I can see some evidence of soil contamination from the descent engine but it's a very insignificant amount. Okay,

Buzz, are you ready to bring down the camera?

Aldrin: Ready. Getting all squared away and in good shape.

Armstrong: Okay, it's quite dark here in the shadow and it's a little hard for me to see if I have good footing. I'll work my way over into the sunlight here without looking directly into the sun.

PAO: Unofficial time on the first step: 109 hours 24 minutes 20 seconds.

Clarity

(The crewmen discussed the manoeuvres to pull the TV camera off the Eagle so they could place it on the surface of the moon.)

Armstrong: Looking up at the LEM, I'm directly in the shadow now, looking up at Buzz in the windows and I can see everything quite clearly. The light is sufficiently bright in front of the LEM that everything is very clearly visible.

PAO: The surgeon says

the crew is doing well and the data is good.

Armstrong: I'll step out and take some of my first pictures here.

Capcom: Roger, Neil. We're reading you loud and clear and see you're getting some pictures and the contingency sample. (pause) Neil, this is Houston. Did you copy about the contingency sample?

Armstrong: Roger, going to get that just as soon as I finish these pictures here.

Aldrin: Okay, you going to get the contingency sample now? Armstrong: Yup.

Aldrin: That's good.

Armstrong: Okay, the contingency sample is down and it's a good sample. It's a little difficult to dig through the crust.

Armstrong: It's very interesting. It's a very soft surface but here and there where I dug with the contingency sample collector it's a very hard surface but it appears to be very cohesive material of the same sort. I'll try to get



a rock or two. Just a couple.

Aldrin: Oh, that looks beautiful, Neil.

Armstrong: It's soft and mealy all the way down. It's like the high desert of the United States. It's different but it's very pretty. Be advised that a lot of the rock samples out here, the hard rock samples, have what appear to be vesicles in the surface.

Aldrin: Okay, the handle (containing device) is out. It pushes about, oh, six to eight inches into the surface. But it's quite easy to push.

Armstrong: Yet it is, I'm sure I could push it in further but it's hard for me to bend down further than that.

Aldrin: Are you all set for me to come out?

Armstrong: Okay, you know the difficulties I watch your feet from underneath here. Okay, your foot looks like it's clearing okay, it's about to come over the rim. Okay, now drop your foot down. There you go. You're clear and laterally you're good. Coming over clear. You're clear.

Aldrin: Okay you need a little bit of arching in the back to come down. How far are my feet from the . . . (inaudible).

Armstrong: Okay, You're right at the edge of the porch. (inaudible) Looks good.

Aldrin: Just making sure I lock up on the way out.

Rocks

Armstrong: (laughter).

Aldrin: That's our home for the next couple of hours and we want to take good care of it. Okay, I'm on the top step . . . It's a very simple matter to hop down from one step to the next.

Armstrong: Okay, coming down is very comfortable and watching is also very comfortable. You've got three more steps and then a long one . . . there you go.

Aldrin: Looks good down there. I think I'll do the same.

Armstrong: There you go. There you've got it. That's a good step.

Aldrin: Beautiful, beautiful.

Armstrong: Isn't that good? You did a good job coming down here.

Aldrin: I accept your congratulations.

Aldrin: It's very, very fine powder. Right in this area I don't think there's very much of anything else. Some of it's pounded together and it's hard to tell if it's clod or a rock.

Armstrong: You can pick it up.

Aldrin: Yeah, and it bounces. Reaching down is fairly easy. The mass of the back pack has some effect on inertia. There's a slight tendency to lean backwards, due to the soft, very soft texture.

Armstrong: There's a lot of big rocks here now. (inaudible).

Aldrin: The rocks are rather slippery . . . Their powdery surface makes them tend to slide over rather easily.

(Armstrong moved television camera to position away from Eagle).

Armstrong: I was about to lose my balance in one direction and recovery is quite natural.

Aldrin: I'm moving off and jumping around the surface and I'm quite light-footed.

Armstrong: I have the insulation off the MESA now and the MESA seems to be in good shape.

Aldrin: You have to be careful that you're leaning in the direction you want to go otherwise you're (inaudible) slightly uneven. You have to cross your foot over to stay underneath where your centre of mass is. Hey, Neil, didn't I say we might see some purple rocks?

Armstrong: You find a purple rock?

Aldrin: Yeah.

(Armstrong sets out TV Camera).

Capcom: Okay, that looks good, Neil . . . We got a beautiful picture now. Okay, there's another good one.

(Armstrong describes rocks seen on the TV screen).

Armstrong: That little hill you see in the back is a pair of elongated craters about 40 feet long and 20 feet across and 15 deep.

We'll take a look at that later. (Crew set out solar wind experiment).

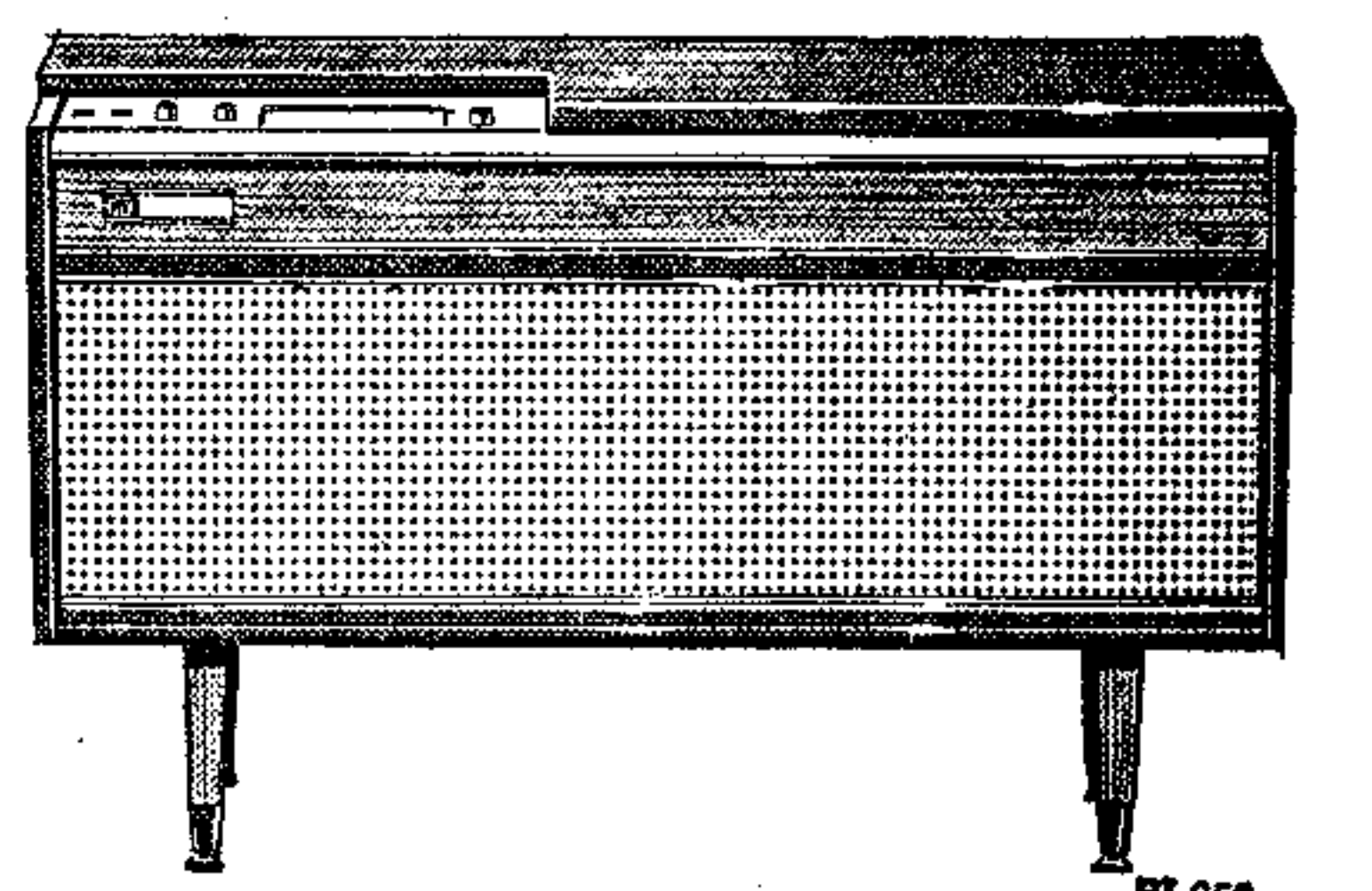
Aldrin: I can see just exactly what the Surveyor pictures showed . . . It appears as though it were caked on the surface when in fact it isn't.

Armstrong: I noticed that the soil is very cohesive and will retain a slope of probably 70 degrees.

Aldrin: You have to be rather careful to keep track of where your centre of balance is. It takes about two or three paces to adjust it (inaudible). It takes about two or three or maybe four easy paces and then you hit it . . . You stop . . . You switch



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What they said as the lunar module landed

HOUSTON, Monday (AAP-Reuter). — Neil Armstrong founded the world's first space base yesterday with three words to hundreds of millions of television viewers and radio listeners: "Tranquillity Base here".

In this partial text of the pre-landing conversation between Apollo 11 mission control and the Eagle (lunar module), Edwin Aldrin described step-by-step the manoeuvres of the last 1,000 feet. Capcom is the ground capsule communicator. Columbia is the command module.

Eagle: Thirty feet, down two and a half. Picking up some dust . . . just moving to the right a little . . . contact light . . . okay, engine stopped . . . defuel on the descent (engine) engine auto over . . . engine arm off . . . (inaudible) is in.

Capcom: Roger, we copy

acknowledge). You're down, Eagle.

Eagle: (Armstrong) Tranquillity Base here. The Eagle has landed.

Capcom: Tranquillity, we copy you're on the ground.

There are a lot of guys about to turn blue, they're breathing again.

Eagle: We're looking good here. We're going to be busy for a minute.

Columbia: Houston, can you read Columbia on the high gain (antenna)?

Capcom: We read you five-by-five (okay), Columbia. Eagle is at Tranquillity Base. Over.

Columbia: Yeah, I heard the whole thing. Fantastic. Eagle: Yeah, that's what we think.

Eagle: (Armstrong) Houston, that may have seemed like a very long final phase. Targeting would have taken us right into a football-field sized crater with a large number of big boulders and rocks for about a hundred feet around it . . . so we flew manually over the rock field to find a reasonably good area.

Capcom: Roger, we copy, it was beautiful from here.

Eagle (Aldrin): We'll get to the details of what's around here, but it looks like a collection of just about every variety of shape, angularity, granularity, about every variety of rock you could find. The colour is . . . well, it varies pretty much depending (on sun angle). There doesn't appear to be much of a general colour at all. However, it looks as though some of the boulders, of which there are quite a few in this area, looks as though they're going to have some interesting colours to them. Over.

Variety

Eagle: (Armstrong) The view out the window is a relatively level plain cratered with a fairly large number of craters of the five-to-50-foot variety and some ridges, oh, 20 to 30 feet high. I would say (And literally thousands of little one and two foot craters. We see some angular blocks several hundred feet in front of us that are probably two feet in size with angular edges.

Eagle (Armstrong): You might be interested to know that I don't think we noticed any difficulty at all in adapting to one-sixth G. It seems immediately natural to move in this environment.

Capcom: Roger, Tranquillity, we copy. Over.

Eagle: (Armstrong) It really is rough Mike, over

the targeted landing area extremely rough, craters and large numbers of rocks, probably some much larger than five or 10 feet in size.

Columbia: When in doubt, land long.

Eagle: (Aldrin) That's what we did. (Technical exchange).

Columbia: Have any idea if they landed left or right of centre line: Just a little bit long — is that all we know?

Capcom: Affirmative: That's about all we can tell. (Armstrong reported the mission time clock time. Eagle had stopped and requested help on how to resite it).

Colour

Eagle: (Armstrong) I'd say the colour of the local surface is very comparable to that we observed in orbit yesterday at about 10 degrees sun angle. It's pretty much without colour. It's grey and it's very light, chalky grey as you look into the zero phase line (directly toward the sun) and it's considerably darker grey, more like an ashen grey as you look out 90 degrees to the sun. Some of the surface rocks in place here have been fractured by the rocket engine plume, a light grey on the outside but where they've been broken they display a dark grey interior as it looks like it could be country basalt (a metamorphosed by volcanic action).

Capcom: The whole team is going off and letting the main team (of ground controllers) take over. We appreciate the great show it was a beautiful job, guys.

Eagle (Aldrin): Re. Couldn't have better intel from all of you chaps there.

Later.

Eagle (Aldrin): It is the LM pilot. I'd like to take this opportunity to ask every person on 'em' however, where they may be to pause for a moment and celebrate the events of the last few hours and to give kinks in his or her own v.

Capcom: Roger, Tranquillity Base.

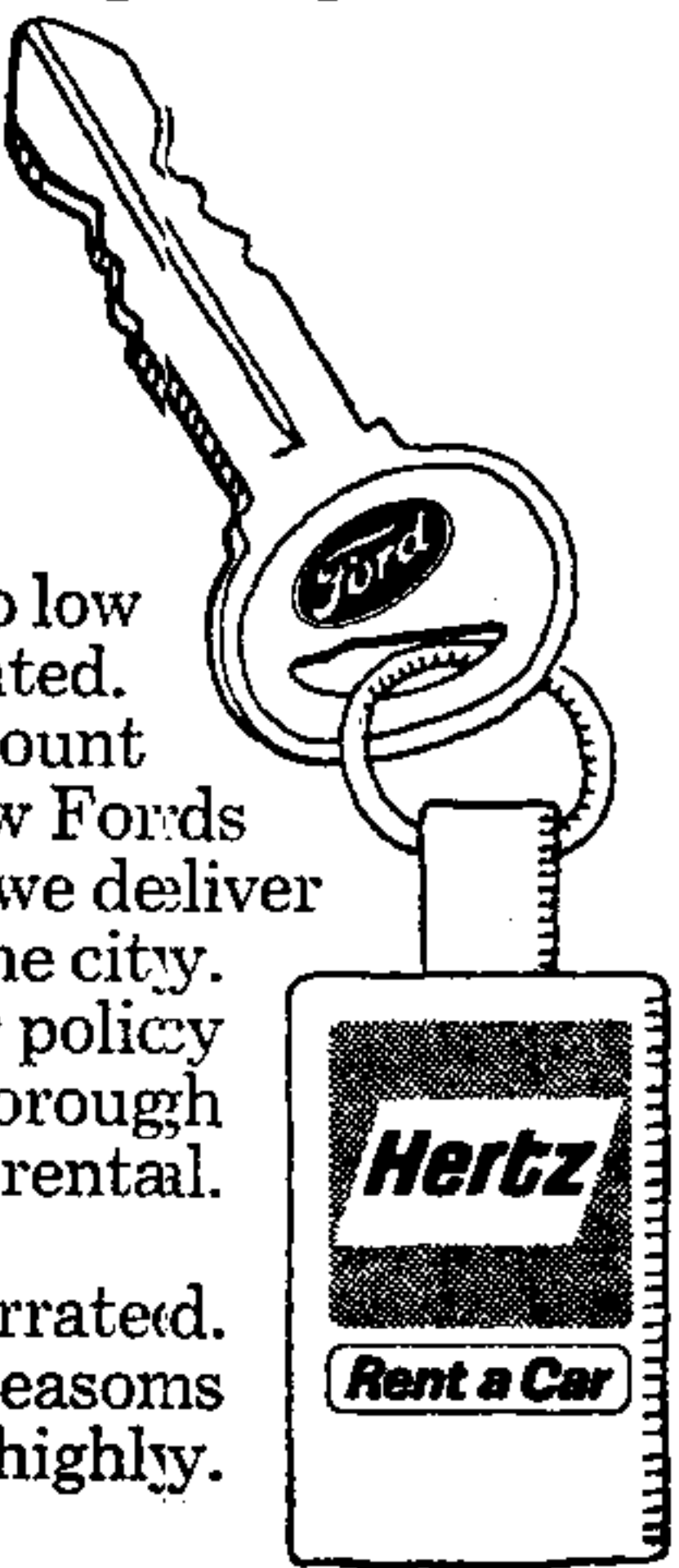
Capcom: Columbia this is Houston, are you reading Tranquillity all right on the radio?

Columbia (Collins): I believe so. I haven't heard much since three minutes ago.

Capcom: Roger, Tranquillity, we copy. Over.

Eagle: (Armstrong) It really is rough Mike, over

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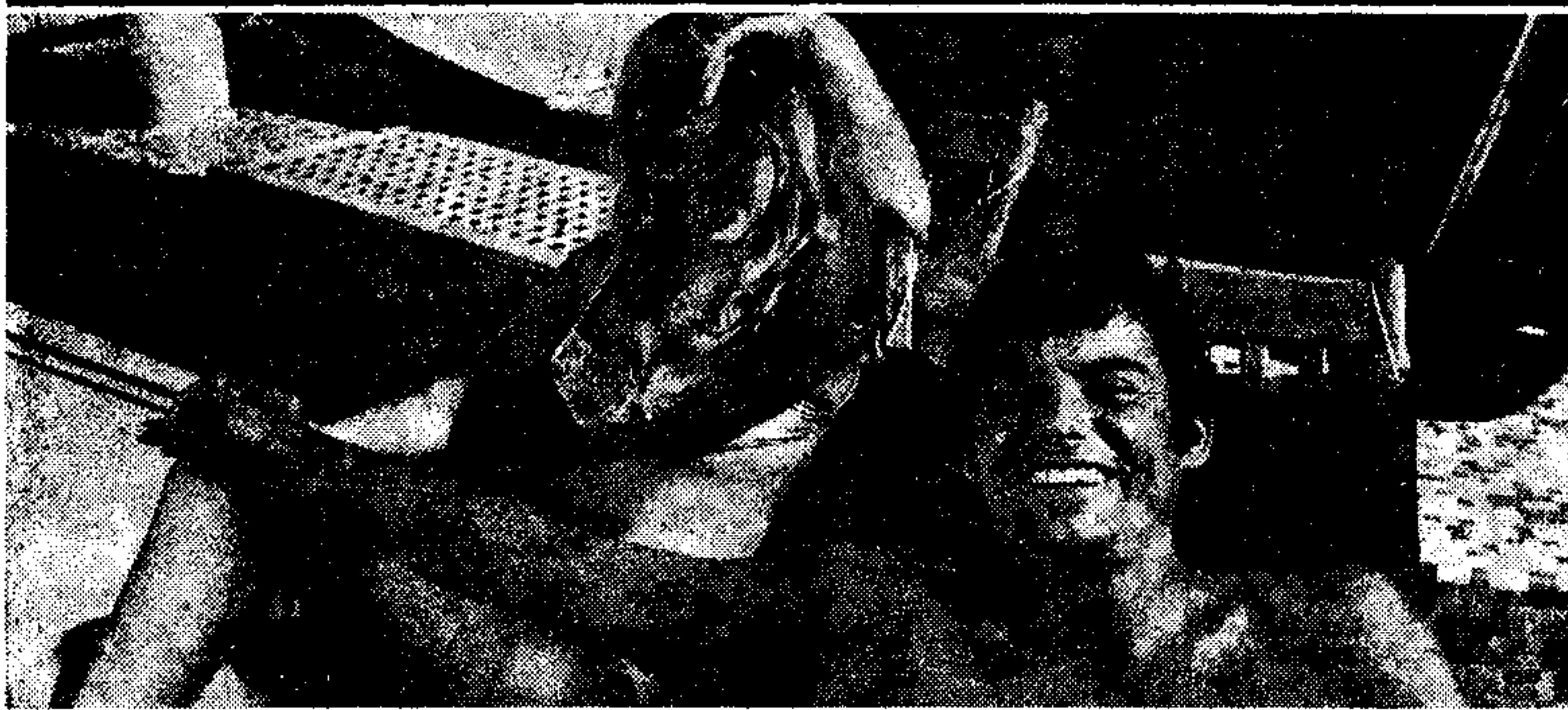
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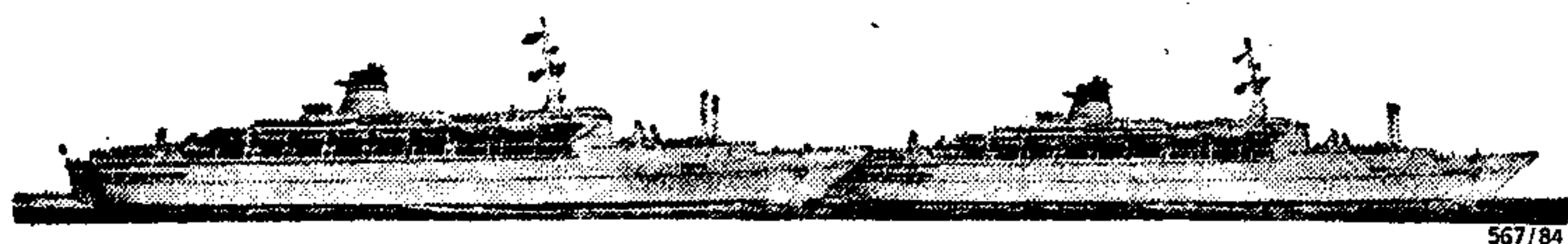
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Stop-work TO WATCH AND LISTEN



Deborah Griffin, left, Jane Allan, Elizabeth Blake and Barbara Croskin, all seven years old, watch in wonder the Apollo-11 astronauts walking on the moon, at Our Lady of Mercy Primary School.

The streets of Canberra were more deserted at lunch-time yesterday than even those of Melbourne on Melbourne Cup Day.

Thousands who would normally have been darting in and out of shops or driving home for lunch stayed instead by the nearest television receiver to watch the telecast from Apollo-11.

Hundreds of public servants remained in their offices and the packed-lunch orders from one city sandwich bar increased by more than 700 per cent.

Shops without television receivers were deserted of customers and, sometimes, staff.

Those with receivers were thronged with people, but were commercially no better off. Few people strayed from the television sets to make purchases.

"Too much of this could break us", one store supervisor remarked, but he kept his eyes on the television set while he said it.

At Trans-Australia Airlines there was a feeling among the staff that they were included in the show.

At the weekend the airline had scheduled two flights to ensure that urgently needed spare parts were flown to the tracking station at Tidbinbilla, which had had a malfunction.

Reservations officers watch a portable television set.

Normally concerned with flights much closer to earth, Qantas city staff turned

their office into a miniature cinema with seats drawn up around the television set. A roster was arranged to handle the few customers whose terrestrial journeys were more important to them than man on the moon.

At the Civic branch of the Bank of New South Wales tellers stood on chairs to watch over the heads of the customers who were taking it all in on the television set in the business concourse.

At another bank the only duty teller had a portable set on his desk.

The early morning telephone awakening service operated by the post office had more than twice its normal number of requests.

The Courts of Petty Sessions adjourned three times during the day so that magistrates, police and prosecutors could watch the Apollo happenings on a television set in the office upstairs.

A Civic restaurant which normally does good business on Mondays had only two customers for lunch.

Hotel bars did good business as customers stayed on to watch Apollo-11.

In a city department store a man who went to buy a suit during the telecast was asked if he could select his own and try it on or come back later. He selected his own.

Arriving and departing aircraft at Canberra Airport were not the focus of attention they normally are.

Passengers clustered around a television set in the passenger lounge along with visitors and airport staff.

At most Canberra schools the pupils spent the day watching moon telecasts while at others only those who lived close by went home for lunch. Most of them stayed home.

From noon yesterday most of Canberra had its eyes, ears and minds on the moon.

It was several hours before it came back to earth.

Crowds fill offices, stores and pubs

SYDNEY, Monday. — "It's marvellous", a grey-haired woman, nearing 70, said as she stood on a window sill craning her neck to catch a glimpse of the Apollo-11 moon walk.

Supported by her slightly younger companion, the elderly lady, 4ft above Pitt Street, in the city, was trying to see a television set in a small electrical store.

"Columbus"

"It's just like being there when Columbus or some other explorer landed", she said.

Lunch-time crowds in Sydney spilled out of their offices and ran to the nearest TV set.

All major retail and electrical shops were filled to capacity from 12pm to 3pm.

Some enterprising publishers hired a TV set for the day.

A few young ladies even dared to enter the male's domain in the public bar of city hotels to see the American astronauts.

All large buildings in the city hired TV sets and placed one on every floor for their staff.

MELBOURNE, Monday. — A general meeting of students at Monash University was abandoned this afternoon — because the students were too busy watching the American moon landing.

The meeting was to have discussed a number of militant motions calling for an occupation of the administration buildings in protest against the controversial discipline statutes.

Seminar

The 124 men and women at the Victorian Employers Federation's seminar on women at work did not have to miss out on seeing history made.

The Acting Premier of Victoria, Sir Arthur Rylab, described the moon landing and walk as a magnificent feat.

PERTH, Monday. — Schoolchildren in WA missed the moon landing, officially, because the State Minister for Education decided not to grant a holiday but prisoners at the Fremantle Gaol had a morning off to watch the Eagle touchdown.

The prison's comptroller-general, Mr C. Campbell said work ceased at the gaol as prisoners gathered around the gaol's six television sets to watch the moon walk.

He said it was the first time in his memory that anything apart from a prison riot had been allowed to completely stop work.

Pride for 'half a job' well done

By FRANK CRANSTON

A small thrill of pride went through most of the normally taciturn technicians in tracking stations in the ACT yesterday, first as the moon landing craft, Eagle, touched down and later as astronauts Armstrong and Aldrin made their epic moon walk.

Snow and sleet were driving outside as a cold snap swept the territory, but their minds were concentrated on the blinking lights and clacking tapes which informed them of progress in man's first extra-terrestrial expedition.

Many of them saw less and heard less of it than people listening and watching at home. Each had his own vital job in a worldwide communications and command network that was making it all possible. But each knew exactly what was going on at any moment. They could sit back later and see it on the replays.

Tidbinbilla acquired the Eagle first at 11.20am as the astronauts prepared their systems to leave the craft. It was joined 10 minutes later by Honeysuckle Creek.

At 12.50pm — just six minutes before Armstrong made his historic first step — the third major Australian unit involved in the landing, the giant 210ft CSIRO antenna at Parkes, NSW, came into a suitable position to lock on to the Eagle. It was through this unit that the world received most of the television pictures which brought the events to earth.

"There was an element of pride among the people out here", the administrative officer of the



This "moon", with a man walking on it and an implanted flag, held by Mrs Barbara Jackson, of Downer, was baked by Mr Rex Avis, of Ainslie, at the Federal Bakery at Braddon.

Apollo tracking station at Honeysuckle Creek, Mr B. A. Scrivener, said last night. "We all thought it was magnificent, that moment when Neil Armstrong stepped on to the moon for the first time."

The ACT stations and Parkes kept contact with the moon craft until 11 o'clock last night, Honeysuckle Creek tracking the Eagle and Tidbinbilla tracking what a station spokesman described as "the forgotten astronaut".

Michael Collins in the Earth — return vehicle Columbia.

"And that's half of the story", Mr Scrivener said. "We have a sign out here in the control which reads 'Fly Me To The Moon' and in slightly smaller print underneath 'And

Back'. That's the part we are working on now."

The Governor-General, Sir Paul Hasluck sent a congratulatory message on the moon landing yesterday to President Nixon.

It reads: "To all who have contributed to today's epoch-making feat Australia and indeed all mankind can but offer heartfelt congratulations. Admiration for the courage of men who have left indelible footprints in the history of the universe can know no bounds. We in Australia pray for their safe return to their families with whom we have shared the anxieties and triumphs of today."

The Prime Minister, Mr Gorton, visited Honeysuckle Creek tracking station early yesterday. He

spent about 45 minutes at the station. Before leaving for Parliament House he said, "This, the first landing of man on the moon, is a success which excites the wonder and admiration of us all. The United States has achieved a great and peaceful triumph for mankind generally."

"All Australians congratulate the United States the three astronauts, Neil Armstrong, Edwin Aldrin and Michael Collins, the National Aeronautics and Space Administration and those people all around the world who have been associated with this Apollo mission."

"Australia is proud to be playing a part in this adventure through its tracking stations, through the Parkes radio telescope and through other facilities."

"This moon landing will begin a new era in space science and technology and it demonstrates in the most dramatic way what man can do by the application of advanced technology for peaceful uses."

"We marvel at the high courage and the skill of the astronauts and at the scientific genius which made this adventure possible. These astronauts have dared dangerously and successfully and they have carried out man's urge to go always a little further, to explore and know the previously unknown, to strive, to seek, to find and not to yield."

"There is no time more memorable than a first time, no triumph greater than one sought and achieved in peace and the world is the richer because of this epic journey. To these men on the moon, we say: Thank You... God-speed... and a safe return home", Mr Gorton said.

'NEW ERA' FOR MAN

SPACE CENTRE, HOUSTON, Monday (AAP). — Because of the very nature of man, he will eventually colonise worlds other than his own, according to the head of the United States Space Agency.

United Press International reported Dr Thomas Paine, the director of the National Aeronautics and Space Administration as saying just after the lunar landing craft Eagle touched down on the moon's surface, "We have demonstrated a very crude and preliminary form of travel between the Earth and other bodies."

Noting that his was only a personal opinion, Dr Paine said, "As we look at the things that we have on the drawing boards, as we look at the dreams of the engineers for the future, it seems very clear to me that there are two basic factors that have to be answered."

"First is whether or not we can attain the kind of costs and the kind of reliability in space flight that we now have in air travel. And, I'm quite convinced that we can."

"The second question is, if we can indeed travel in a practical way to the moon and eventually beyond, will men indeed wish to do so?"

"It seems to me that history of mankind is that they certainly will. So, I would say, yes, I think we have entered a new era."

Dr Paine said he was impressed that this was a world effort.

"... As I sat there, listening to the communication checks coming in from Madrid, and as I considered the fact that the lunar television would be coming back through the great Parkes antenna in Australia, the international teamwork that produced this effort was very much in my mind."

"It's significant, I think, that two days ago, the Soviet Union, at our request, passed to us valuable orbital parameters for the Luna-15 mission in an unprecedented cooperative move, and I think this bodes well for the future of manned exploration of our sister planet."



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