

VOLUME 2: MATERIAL-MEDIA APPENDIX

THE MATERIAL-MEDIA HISTORIES OF MARALINGA

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Goldsmiths, University of London

VOLUME 2: MATERIAL-MEDIA APPENDIX

This following appendix is the second volume of *The Material-Media Histories of Maralinga*. It includes an extensive collection of found media objects, including photographs, maps, documents, and ephemera. Additionally, I have included a selection of new photography and moving image work produced during fieldwork in Maralinga, Woomera, Alice Springs, and other locations in South Australia and the Northern Territory in 2018.

Throughout the thesis (Volume 1), footnotes that begin with the prefix “MMA” direct the reader to the additional content in this volume (Volume 2). The footnotes are formatted with the section number plus the image number. For example, MMA #1.2.345 references section 1.2, item number 345. The archive is organised in the same order as the thesis.

Images that I have personally produced are labelled with the prefix “FW” and are numbered sequentially. All of the FW images appear in both volumes.

PART 0.0: WHAT WAS RETURNED?

0.1: THE SECTION 400 EXCISION EVENT

- 0.0.001 Detail of map produced in 1875 for Stieler's Atlas which describes the area around Maralinga as "No man's Land". (David Rumsey Map Collection)



- 0.0.002 Detail of map produced in 1922 for the "Times survey atlas of the world" which describes the area around Maralinga as "No Man's Land". (David Rumsey Map Collection)



- 0.0.003 Detail of map produced in 1930 for the "Vivien de Saint-Martin & Schrader, Atlas Universel de Geographie" which describes the area around Maralinga as "Noman's Land". (David Rumsey Map Collection)



0.0.004



0.0.005



0.0.006



0.0.007



Photography of the 2014 Section 400 Excision Event at Maralinga Airfield. (Australian Defence Force's image archive)

- 0.0.018 Map produced in 1851 which describes the area around Maralinga as "Nuyt's Land".



- 0.0.019 Map produced in 1855 which describes the area around Maralinga as "Nuyt's Land".



- 0.0.020 Map produced in 1860 which describes the area around Maralinga as "Nuyt's Land".



- 0.0.021 Map produced in 1872 which describes the area around Maralinga as "Nuyt's Land".



- 0.0.023 Map produced in 1883 including Tietkens' path through land around contemporary Maralinga.



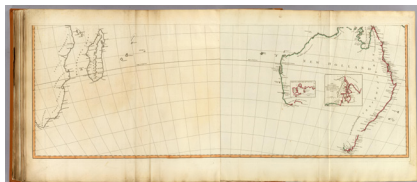
- 0.0.024 Map produced in 1901 including Tietkens' path through land around contemporary Maralinga.



- 0.0.025 Map produced in 1922 including Tietkens' path through land around contemporary Maralinga.



- 0.0.026 Map produced in 1799 with early evidence of mapping of the coast south of Maralinga.



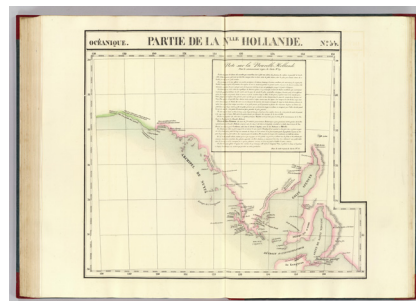
- 0.0.027 Map produced in 1804 with early evidence of mapping of the coast south of Maralinga.



- 0.0.028 Map produced in 1812 with early evidence of mapping of the coast south of Maralinga.



- 0.0.029 Map produced in 1827 with early evidence of mapping of the coast south of Maralinga.



- 0.0.030 Map produced in 1832 showing initial extents of South Australia.



- 0.0.031 Map produced in 1835 with early evidence of mapping of the coast south of Maralinga.



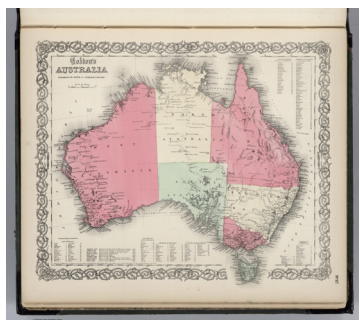
- 0.0.032 Map produced in 1839 shortly after establishment of South Australia.



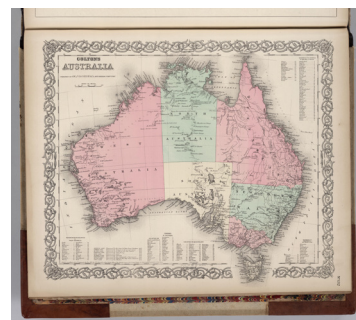
- 0.0.033 Map produced in 1854 shortly after establishment of South Australia.



- 0.0.034 Map produced in 1865 with contemporary state and territory boundaries.



- 0.0.035 Map produced in 1874 with contemporary state and territory boundaries.



- 0.0.036 Map produced in 1892 with designations for Ooldea and Kimba.



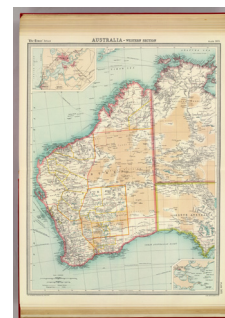
- 0.0.037 Map produced in 1893 with designation for Great Victorian Desert.



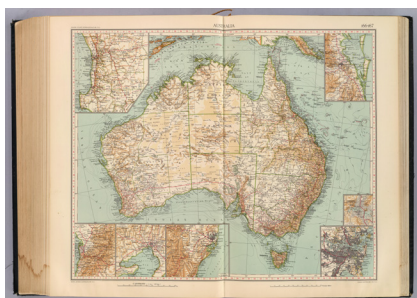
- 0.0.038 Map produced in 1911 with designation for Nullarbor Plain.



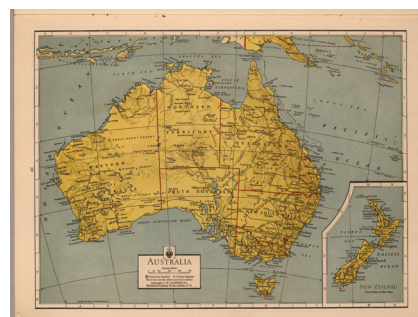
- 0.0.039 Map produced in 1922 that includes the Trans-Australian Railway.



- 0.0.040 Detailed landmarks around Maralinga, including Tietkens Well, Ooldea Range. (1929)



- 0.0.041 Map produced in 1943, just before establishment of Woomera.



0.0.042 Map produced in 1967 which includes Woomera and Maralinga. (David Rumsey Map Collection)



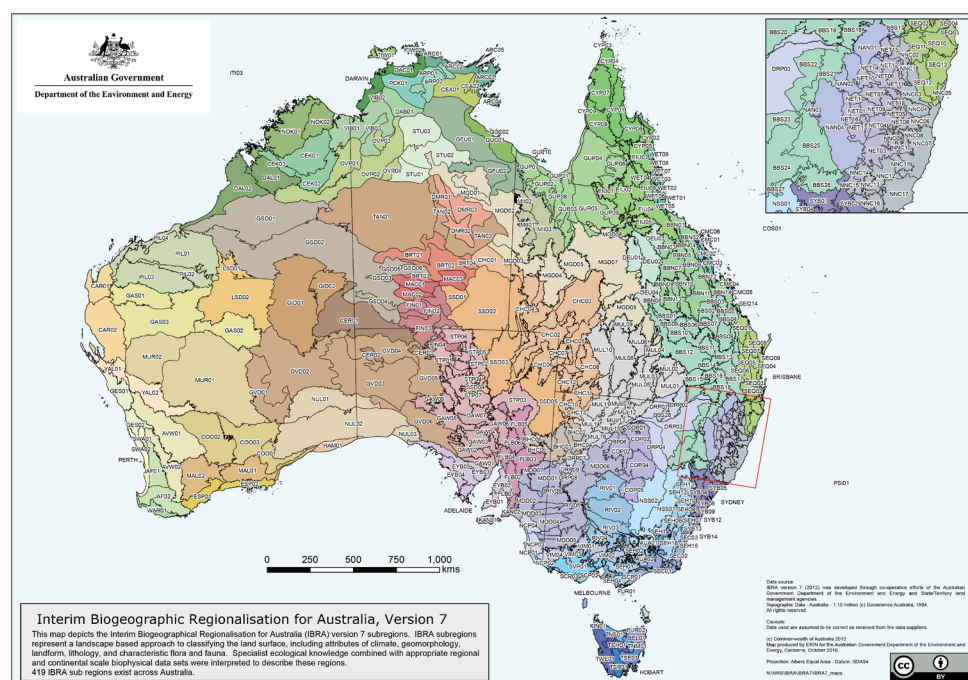
0.0.043 Interior of Koonalda Cave. (State Library of South Australia, 1935)



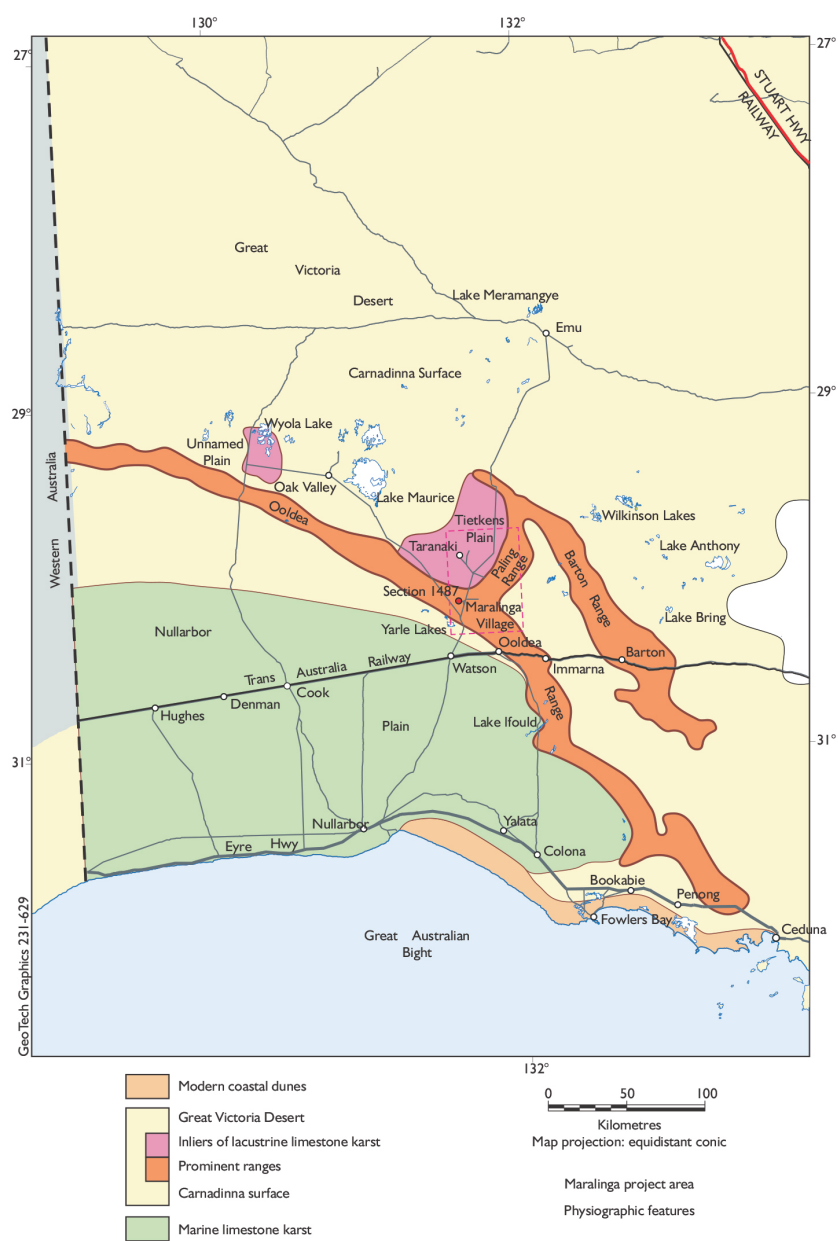
0.0.043B "Bloody hand" markings in Murrawiginnie Cave. (State Library of South Australia, 1935)



0.0.045 Biogeographic Regionalisation map of Australia. The Nullarbor region is in the central part of the southern edge, in light beige. (Australian Government, Department of the Environment and Energy, 2012)



0.0.044



FW 0.1 Burns, David. *Nullarbor Plain from Ooldea Range*. 2018.



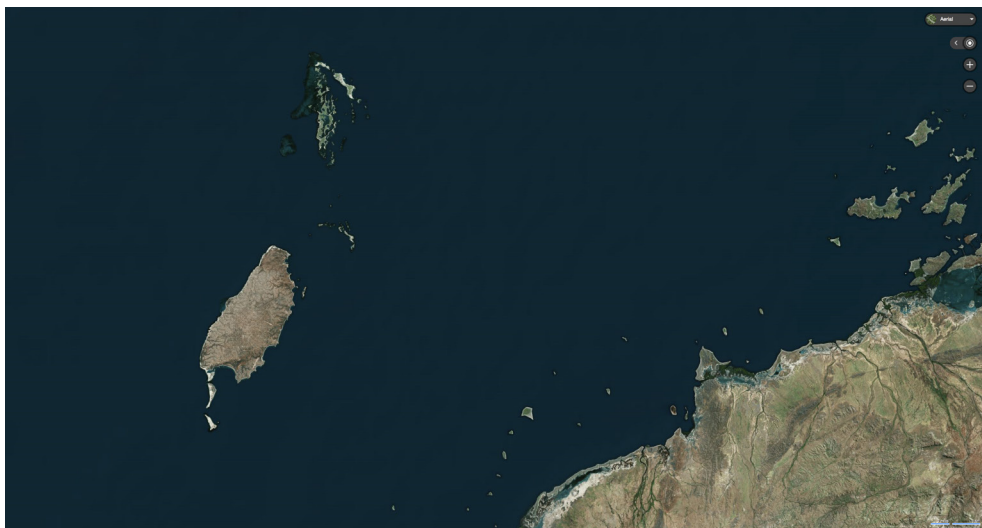
FW 0.2 Burns, David. *Nullarbor Plain from Maralinga Village*. 2018.



FW 0.3 Burns, David. *Ooldea Range from Tietkens Plain*. 2018.



0.0.047 Satellite composite image of Monte Bello Islands (Google Maps, accessed 2017)



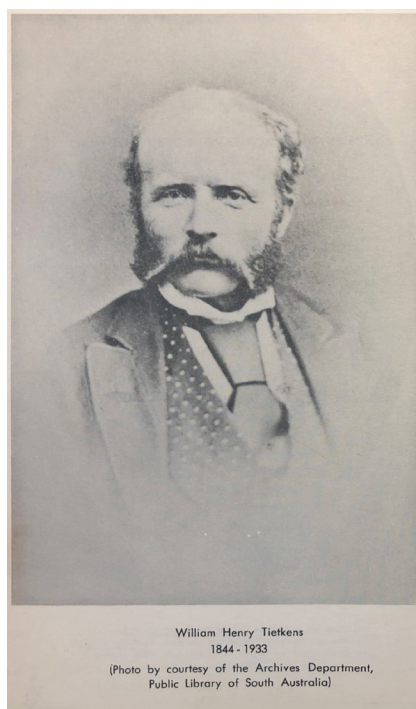
0.0.048 Monte Bello nuclear weapon test, 2 October 1952



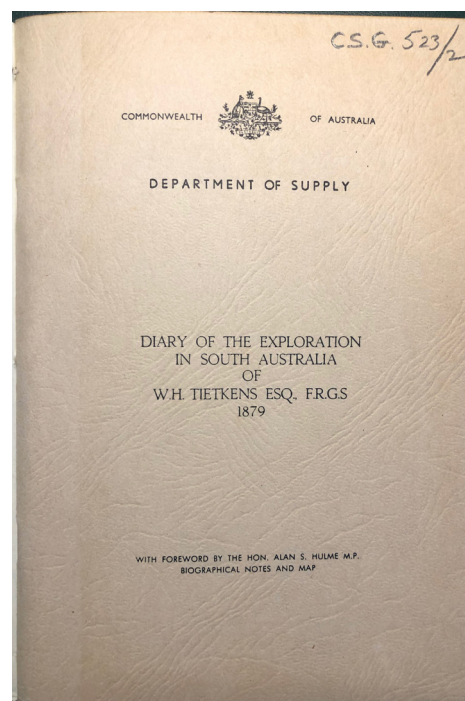
0.0.049 Totem 1, the first detonation on mainland Australia, 15 October 1953 (State Library of South Australia)



0.0.050



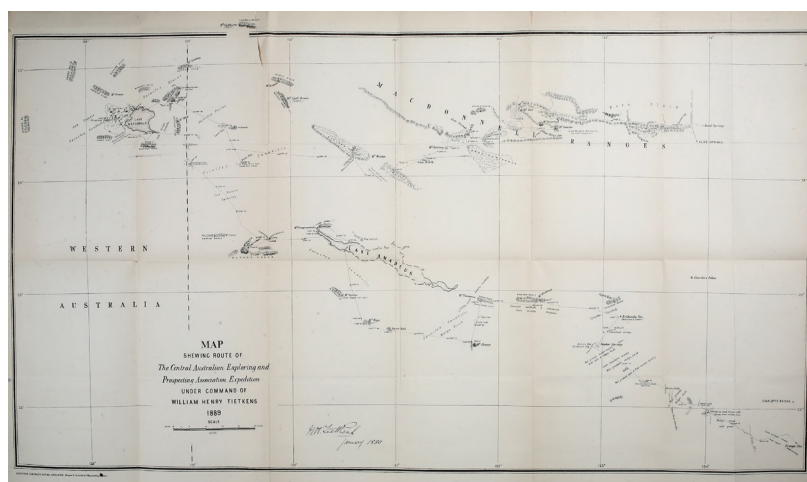
0.0.051



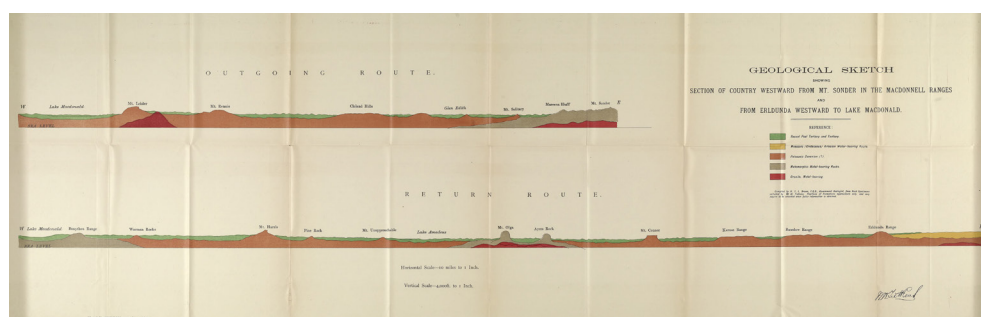
0.0.052



0.0.053



0.0.054



0.0.055 Photograph of Uluru (known as Ayers Rock at the time), July 1889 by William Henry Tietkens (State Library of New South Wales)



FW 0.4 Burns, David. *Tietkens Well No. 3*. 2018.



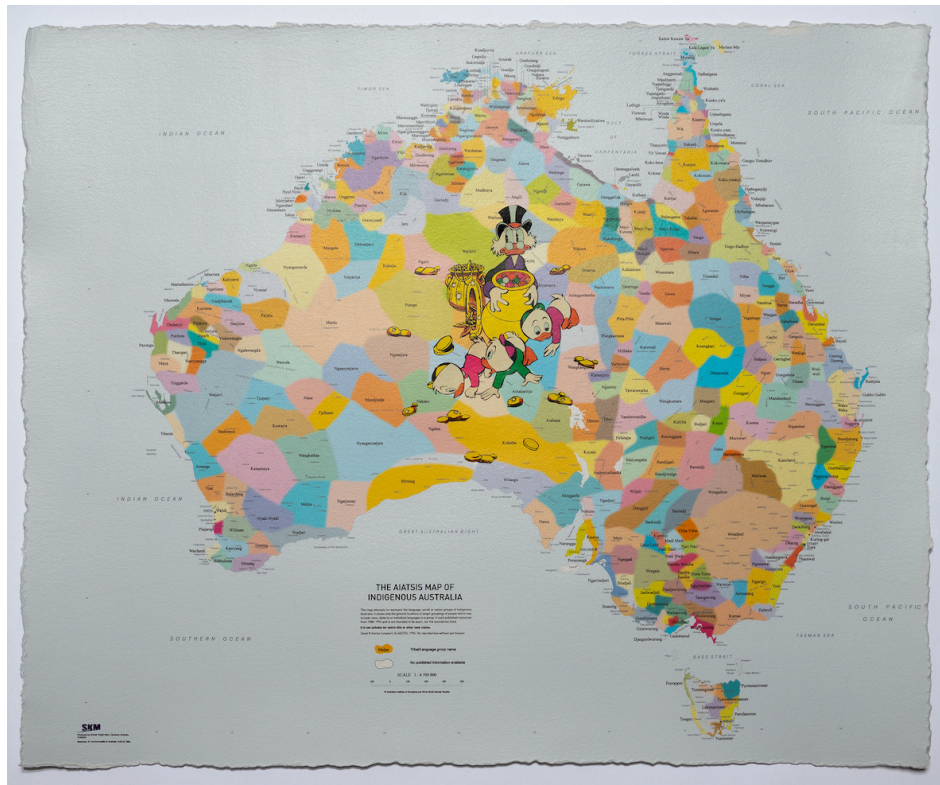
FW 0.5 Burns, David. *Remains of Tietkens camp*. 2018.



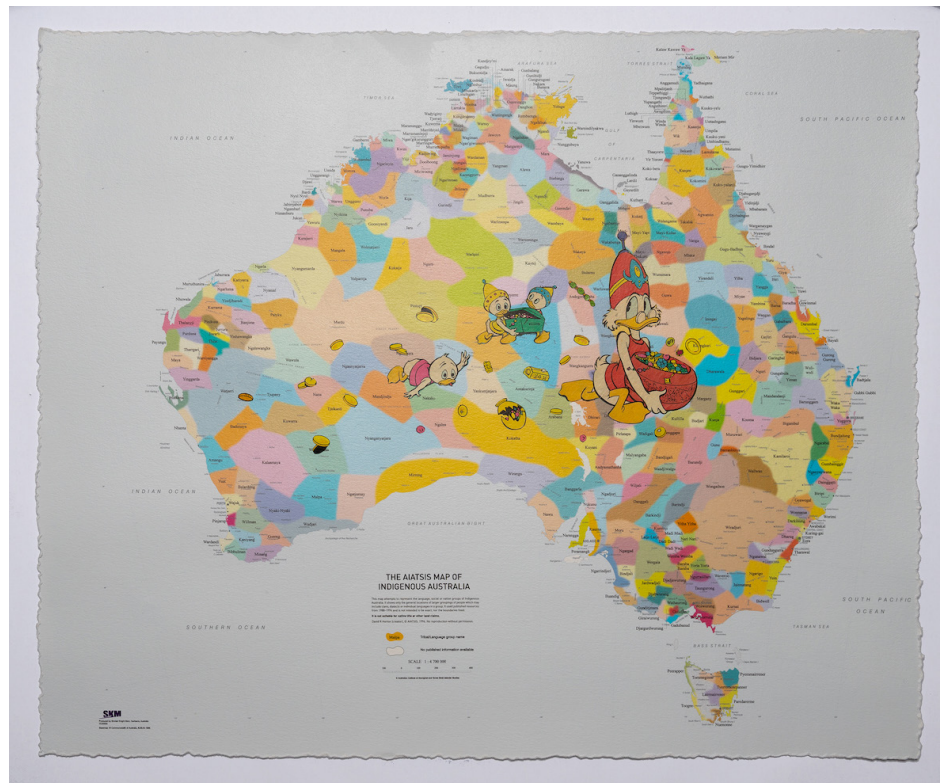
PART 1.0: WHAT IS VISIBLE, HOW, AND TO WHO?

1.1: "INVISIBLE IS MY FAVOURITE COLOUR"

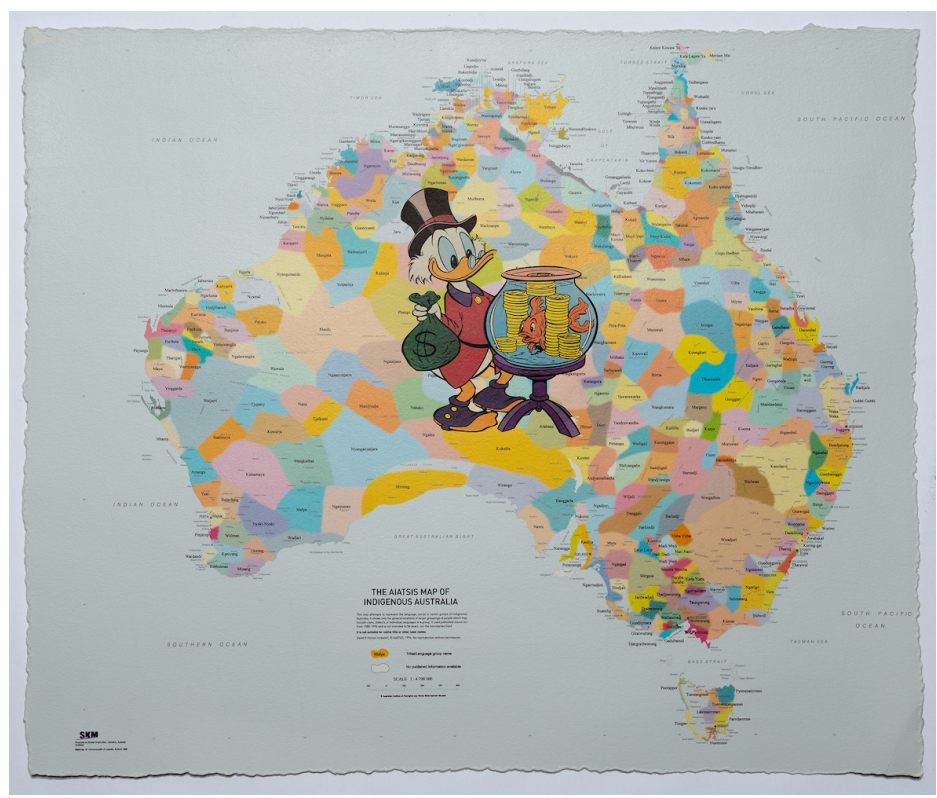
1.1.001 Albert, Tony. *Terra Nullius (Family Values)*, 2019. (used with permission from the artist)



1.1.002 Albert, Tony. *Terra Nullius (Stolen Wealth)*, 2019. (used with permission from the artist)



1.1.003 Albert, Tony. *Terra Nullius (Gold Fish)*, 2019. (used with permission from the artist)



1.1.004 Albert, Tony. *Terra Nullius*, 2019. (used with permission from the artist)



1.1.005 An example of *Aboriginalia* from Tony Albert's collection



1.1.006 Albert, Tony. *Yininmadyemi Those Didst Let Fall*, 2015. (City of Sydney)



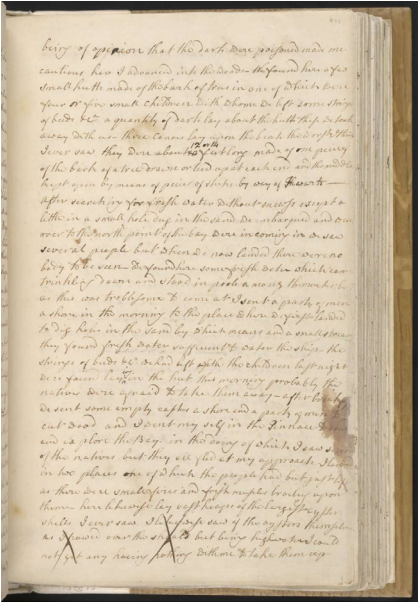
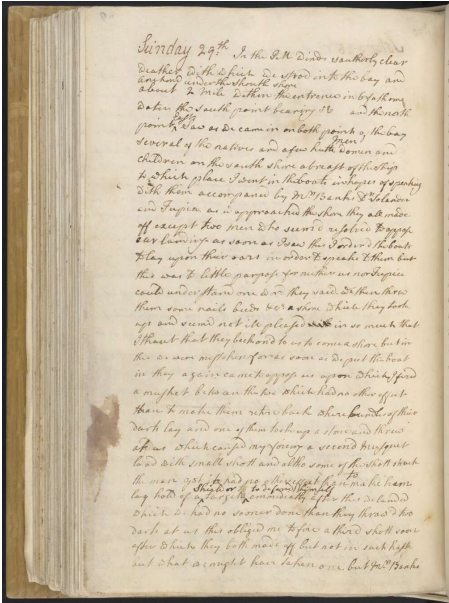
1.1.007 Selected pages from James Cook's journal describing the first landing on Australian soil by the British.



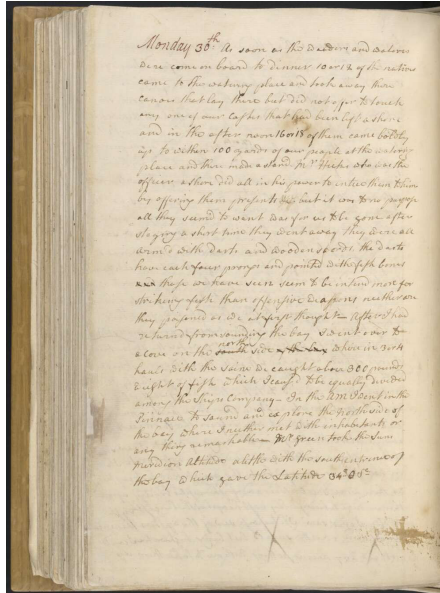
Cook, James, Hutchinson, John, Wallis, Samuel and Bolckow, Henry William Ferdinand. *Journal of H.M.S. Endeavour, 1768-1771*. National Library of Australia.

1.1.008

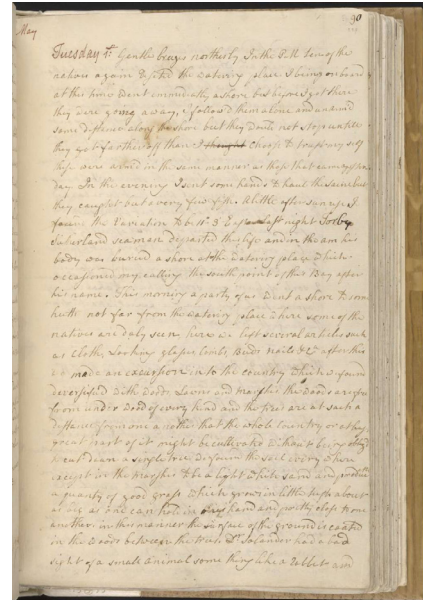
1.1.009



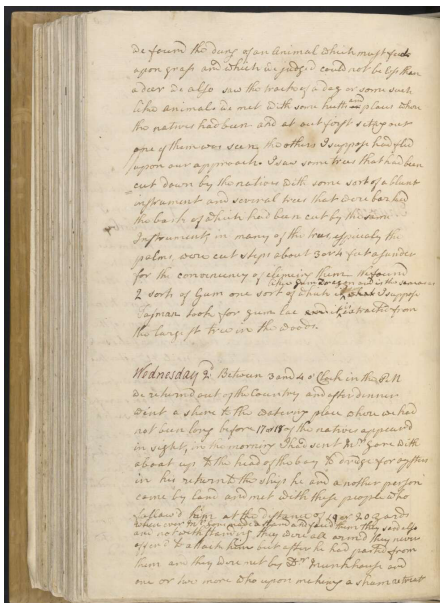
1.1.010



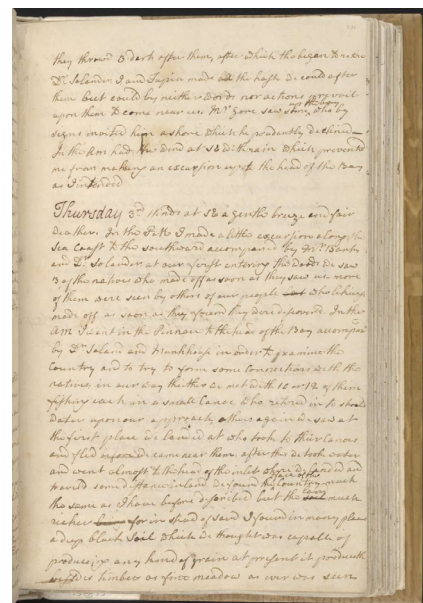
1.1.011



1.1.012



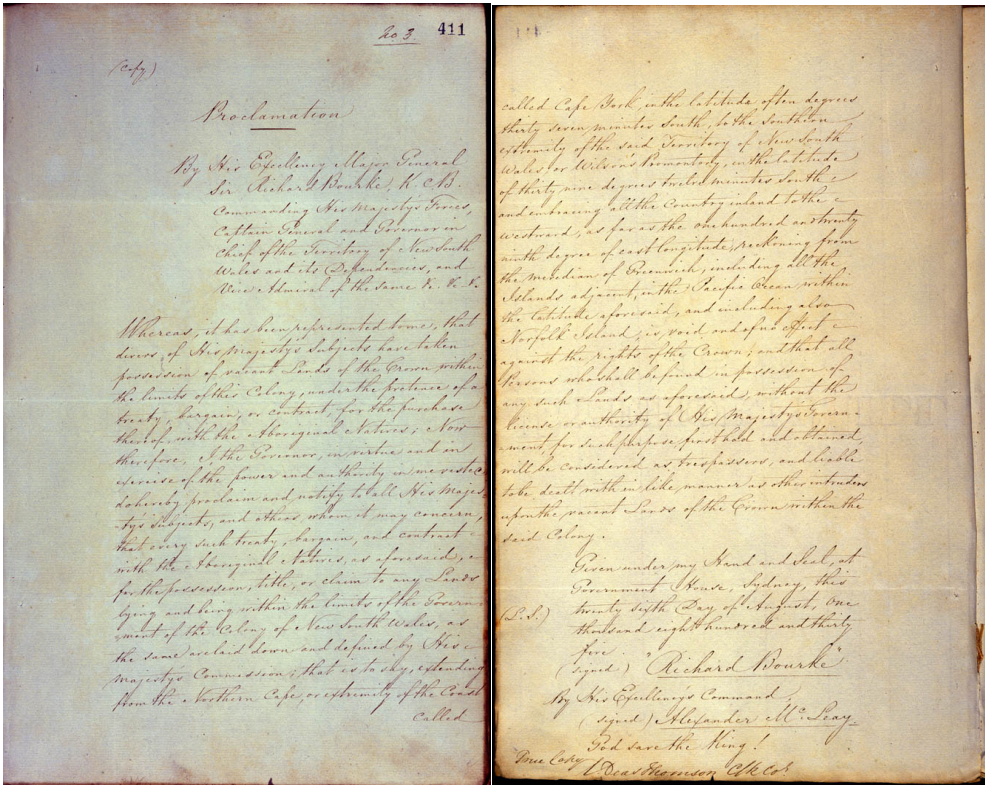
1.1.013



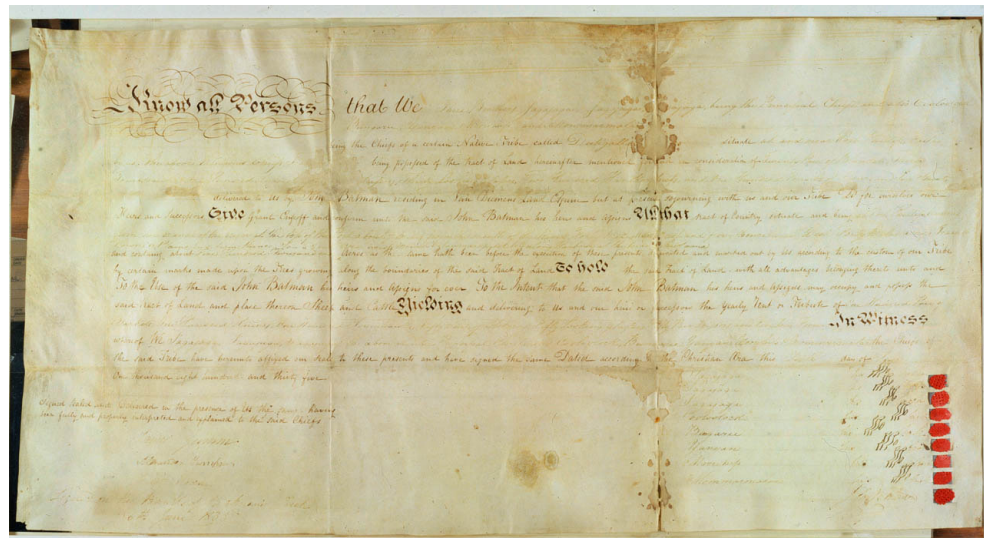
1.1.014 Portrait of New South Wales Governor Richard Bourke, ca. 1835 (State Library of New South Wales)



1.1.015 1835 Proclamation (Museum of Australian Democracy)



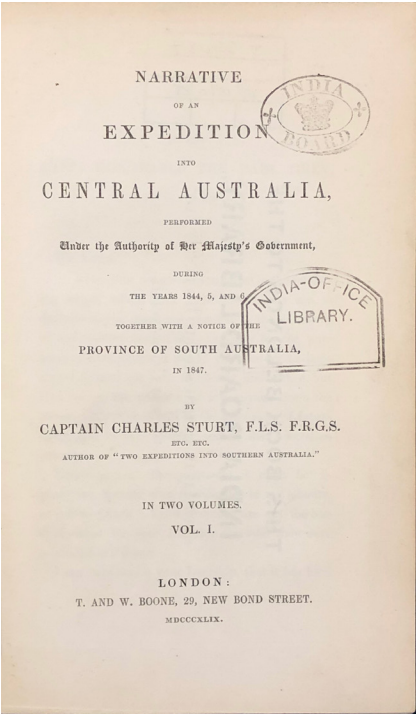
- 1.1.016 Batman Treaty 1835, also referred to as the Dutigullar Deed or Treaty (National Museum of Australia)



- 1.1.017 Engraving depicting Lake Torrens from Sturt, Captain Charles. *Narrative of an Expedition into Central Australia*. T. and W. Boone, 1849.



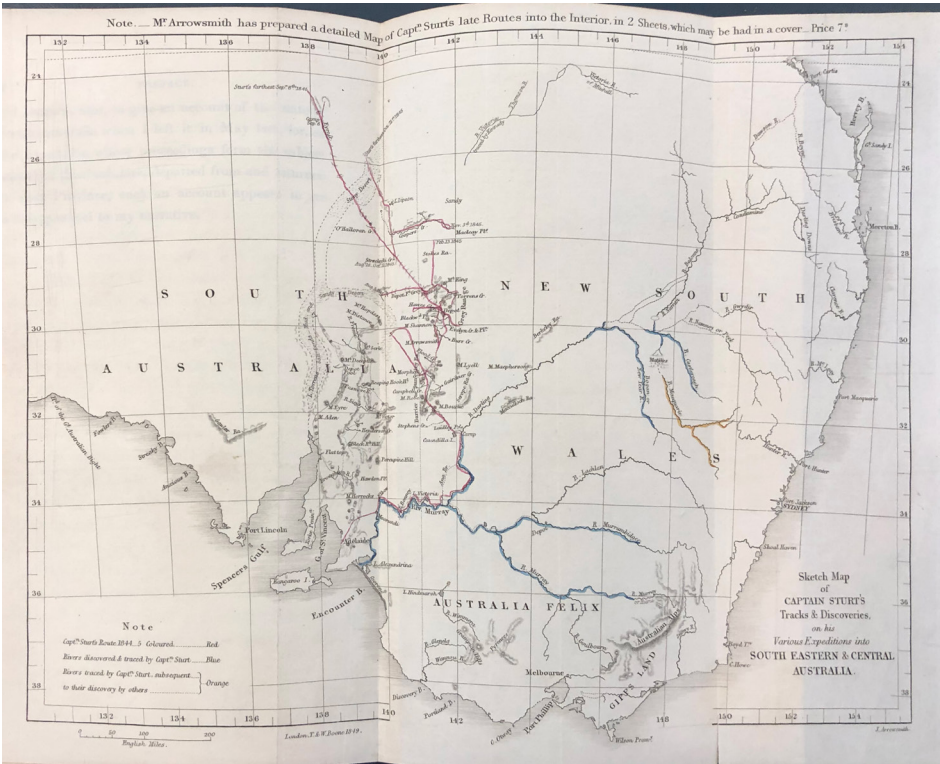
1.1.018



1.1.019



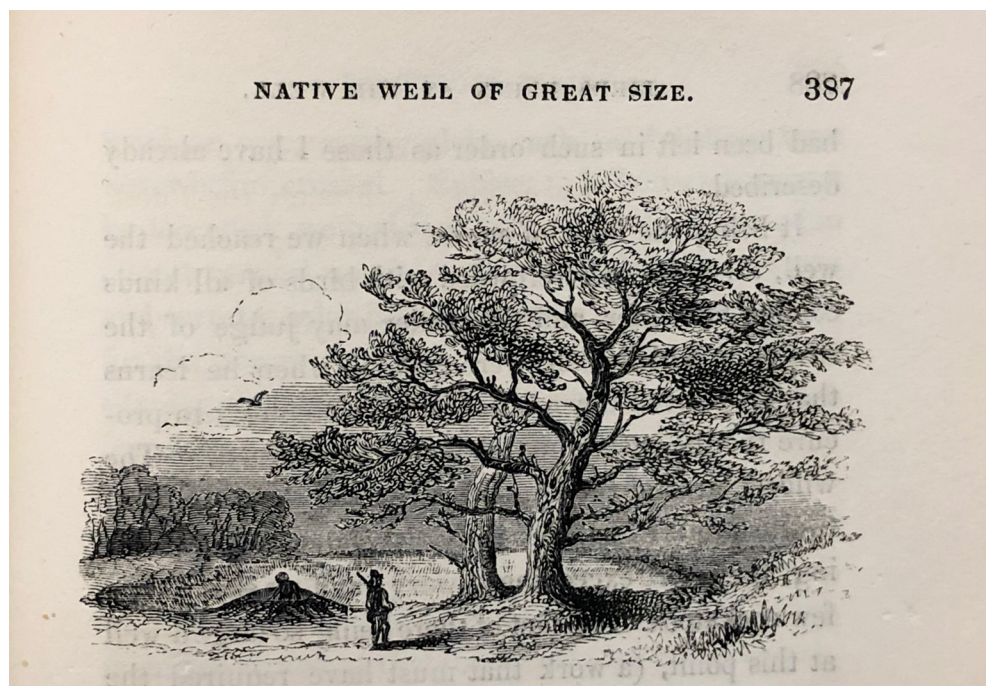
1.1.020 Map of Sturt's expedition from Sturt, Captain Charles. *Narrative of an Expedition into Central Australia*. T. and W. Boone, 1849.



- 1.1.021 Engraving depicting Lake Torrens from Sturt, Captain Charles. *Narrative of an Expedition into Central Australia*. T. and W. Boone, 1849.



- 1.1.022 Engraving depicting evidence of advanced land management by Indigenous residents near Maralinga from Sturt, Captain Charles. *Narrative of an Expedition into Central Australia*. T. and W. Boone, 1849.



- 1.1.023 Engraving depicting Stanley Range from Sturt, Captain Charles. *Narrative of an Expedition into Central Australia*. T. and W. Boone, 1849.



- 1.1.024 Engraving depicting evidence of Indigenous “village” near Maralinga from Sturt, Captain Charles. *Narrative of an Expedition into Central Australia*. T. and W. Boone, 1849.



PART 1.0: WHAT IS VISIBLE, HOW, AND TO WHO?

1.2: WHAT IS VISIBLE?



FW1.1 Burns, David. *Maralinga Road I*. 2018.

FW1.2 Burns, David. *Iluka Mine Road I*. 2018.



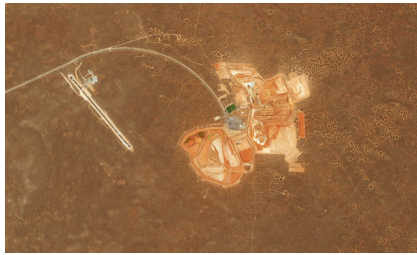
FW1.3 Burns, David. *Iluka Mine Road II*. 2018.



FW 1.4 Burns, David. *To Maralinga and Oak Valley*. 2018.



1.2.001 Satellite image of Iluka Mine (Bing Maps, accessed 2018)



1.2.002 Satellite image of Challenger Mine (Bing Maps, accessed 2018)



1.2.003



1.2.004



1.2.005



1.2.006



1.2.003-006 Photographs of Iluka Mine Road before paving with mineral sands road train and road grader, 2011 (Robin Matthews)

FW1.5 Burns, David. *Maralinga Road II*. 2018.



FW1.6 Burns, David. *Maralinga Road Salt Bush*. 2018.



FW1.7 Burns, David. *Red Lake*. 2018.



FW1.8 Burns, David. *The longest stretch of straight track in the world*. 2018.



FW1.9 Burns, David. *British Road*. 2018.



FW1.10 Burns, David. *Maralinga Gate*. 2018.



FW 1.11 Burns, David. *Maralinga Gate Spinifex*. 2018.



FW 1.12 Burns, David. *End of the Gate Fence*. 2018.



FW 1.13 Burns, David. *Maralinga Gate Fence*. 2018.



PART 1.0: WHAT IS VISIBLE, HOW, AND TO WHO?

1.3: THE ORIGINS OF MARALINGA

1.3.001



1.3.002



1.3.003



1.3.004



1.3.005



1.3.006



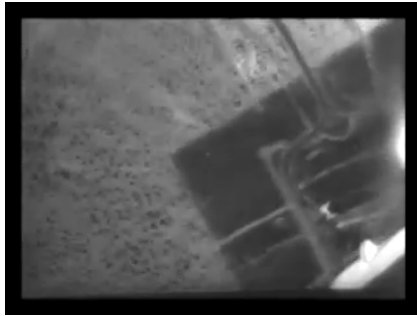
1.3.007



1.3.008



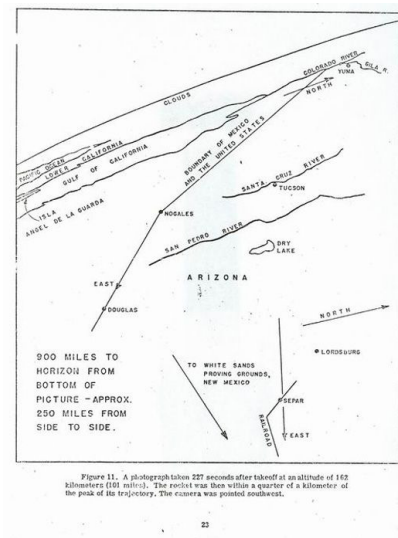
1.3.009



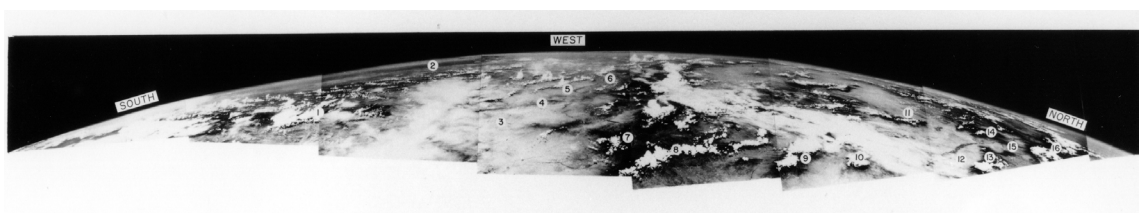
1.3.010



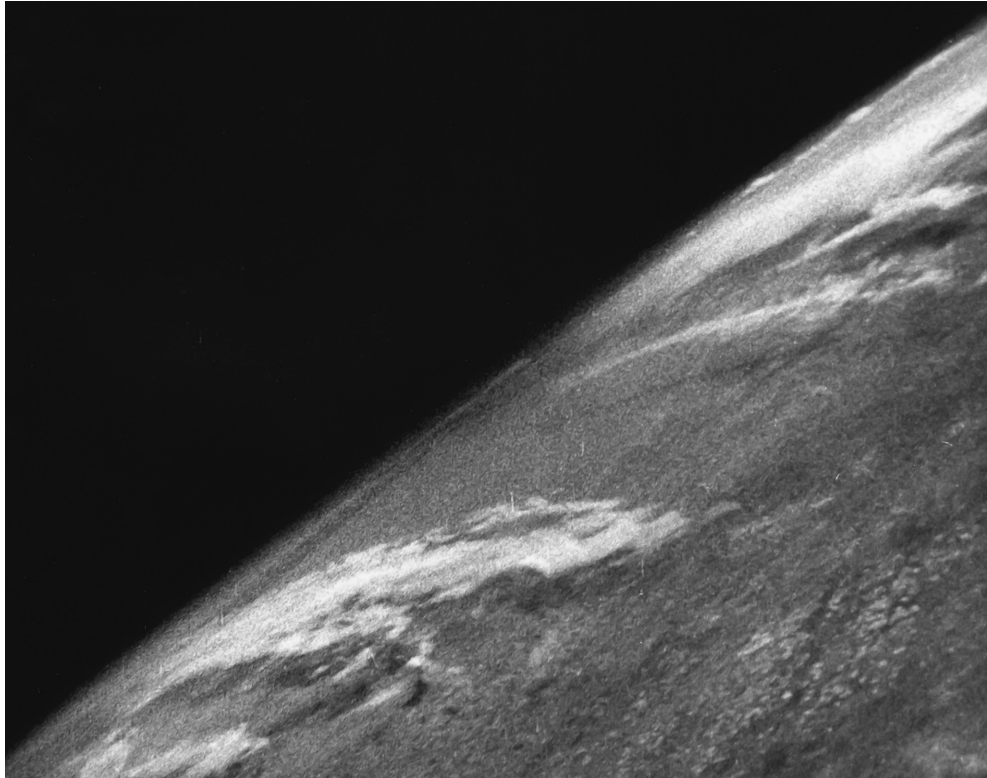
1.3.011 Diagram of V-2 No. 13 photograph, 1946



1.3.011 Composite of V-2 No. 13 photographs, 1946



1.3.012 "First photograph from space" V-2 No. 13 (White Sands Missile Range / Applied Physics Laboratory, 1946)



1.3.014 Werhner von Braun in his NASA office (Hulton Deutsch—Corbis via Getty Images, 1958)



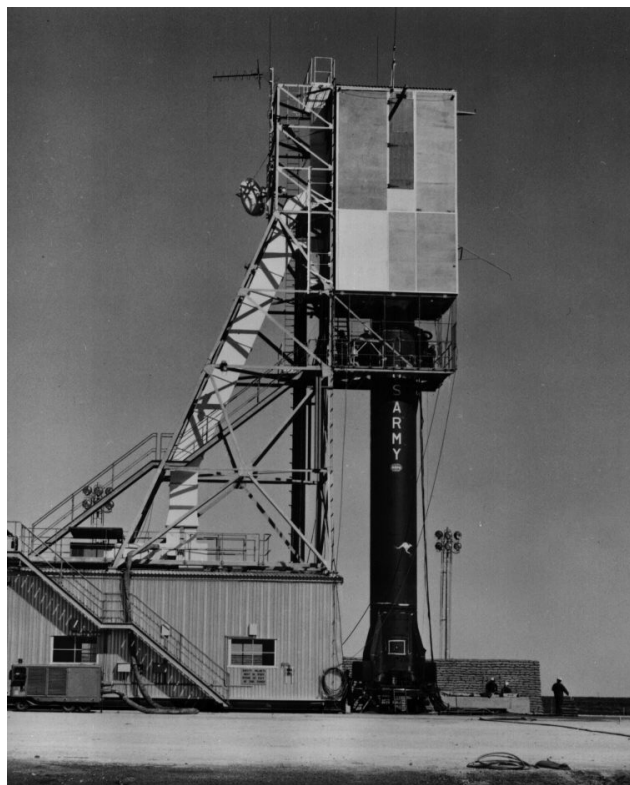
1.3.015 "Apollo 11 mission officials relax in the Launch Control Center following the successful Apollo 11 liftoff on July 16, 1969." (NASA)



1.3.016 Werner von Braun in a parade celebrating the safe return of the Apollo 11 astronauts (NASA, 1969)



1.3.017 American rocket repurposed by Australian Defence Force, 1967 (Woomera Visitors Centre)



FW 1.14 Burns, David. *Redstone*. 2018.



FW 1.15 Burns, David. *Stuart Highway near Island Lagoon*. 2018.



1.3.016 O'Donoaghue Oval in Woomera Village, c. 1975 (Terry Clarke / State Library of South Australia)



1.3.017 Woomera Theatre in Woomera Village, c. 1975 (Terry Clarke / State Library of South Australia)



1.3.018 Fourth of July celebrations in Woomera Village, 1974 (Terry Clarke / State Library of South Australia)



1.3.019 Commonwealth Police Checkpoint near Woomera, c. 1967 (Lubomir Zajicek / State Library of South Australia)



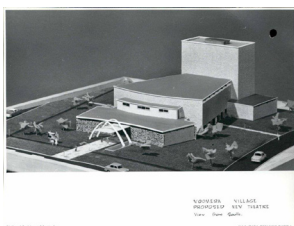
- 1.3.020 "The Obelisk", commemorating the 20th anniversary of the founding of Woomera in 1947, c. 1968 (Lubomir Zajicek / State Library of South Australia)



- 1.3.021 Two women operating a kinetheodolite on the Woomera Range. The kinetheodolite is a photographic instrument for collection of trajectory data, c. 1965 (Lubomir Zajicek / State Library of South Australia)



1.3.030



1.3.031



1.3.032



1.3.033



1.3.034



1.3.035



1.3.036



1.3.037



1.3.038



1.3.039



1.3.040



1.3.041



1.3.042



1.3.043



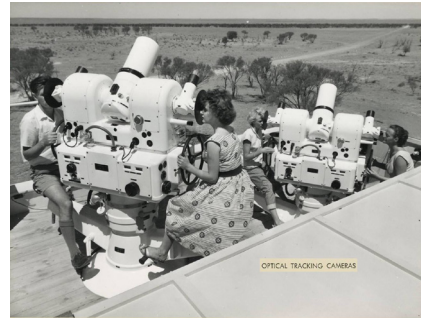
1.3.044



1.3.070



1.3.071



1.3.070 and 1.3.071 The Woomera Visitors Centre. Dates and original source unknown.

1.3.072



The State Library of South Australia

1.3.073

1.3.074



1.3.075



1.3.076

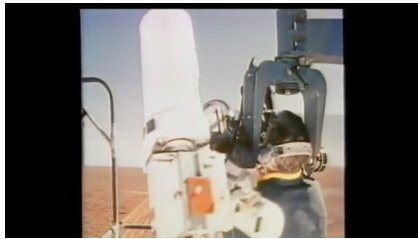


1.3.077



1.3.074 - 1.3.077 are stills from the documentary "Woomera The Silent Partners", Australian Broadcasting Corporation, 1988

1.3.078



1.3.079



1.3.078 - 1.3.079 are stills from the documentary "Woomera The Silent Partners", Australian Broadcasting Corporation, 1988

1.3.080



Radar device now at Woomera Visitors Centre (David Burns, 2018)

1.3.081 Satellite image composite of remains of Woomera launch pad (Bing Maps, accessed 2017)



1.3.082



1.3.083



1.3.082-1.3.084 Officials at Maralinga Airfield with a GAF Jindivik - a radio controlled drone used for target (uncredited)

1.3.084

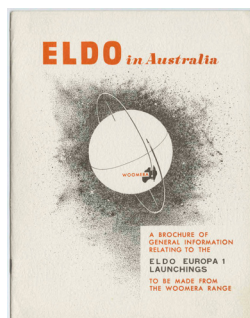


1.3.085



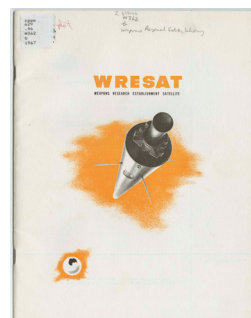
Scientists with WRESAT - Weapons Research Establishment Satellite - the only satellite launched from Woomera

1.3.086



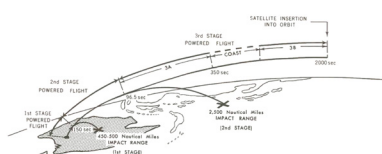
"ELDO in Australia" (State Library of South Australia, 1966)

1.3.097



WRESAT (State Library of South Australia, 1967)

1.3.090



Trajectory data for WRESAT

1.3.091

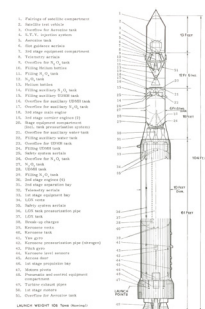
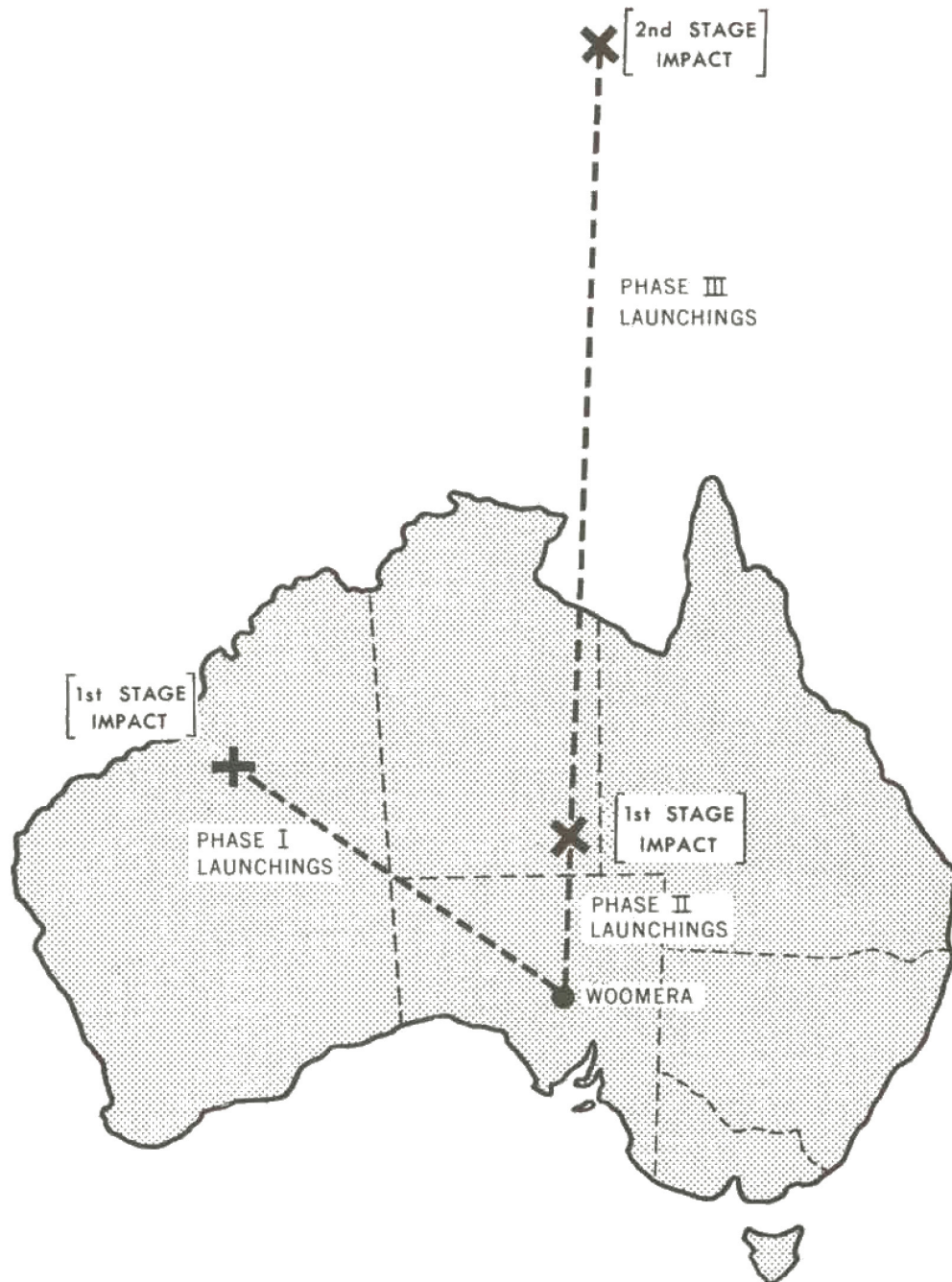
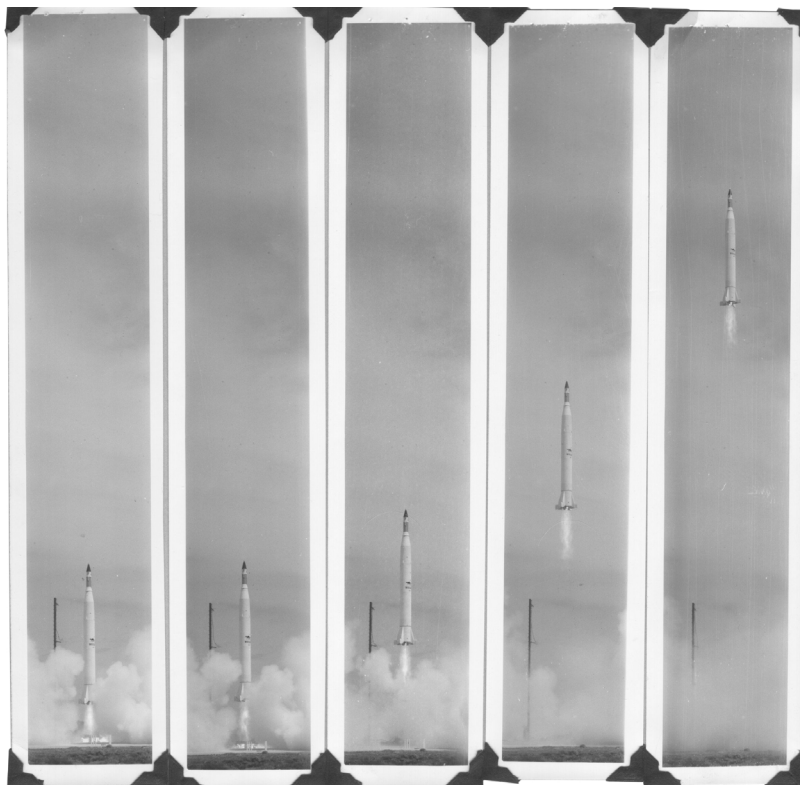


Diagram of WRESAT rocket - a disused American Redstone rocket

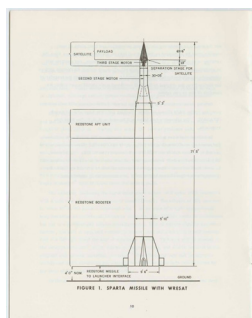
1.3.089 Diagram illustrating two options for launch trajectories from Woomera from the "ELDO in Australia" catalogue (State Library of South Australia, 1966)



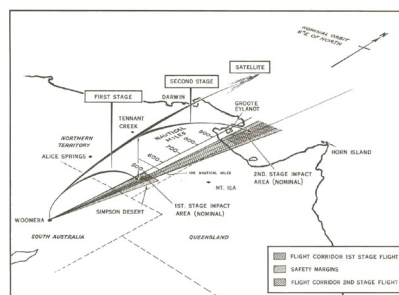
1.3.096



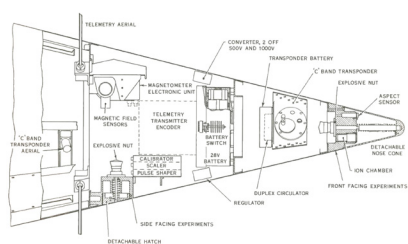
1.3.098



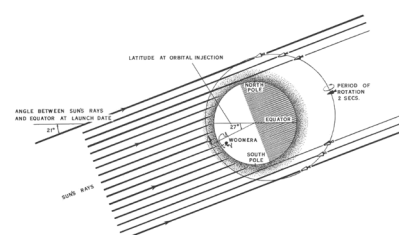
1.3.099



1.3.100



1.3.101



1.3.102 Rosemary Liang, *Welcome to Australia*, 2004



1.3.103



1.3.104



1.3.105



1.3.106



1.3.107



1.3.108



1.3.109



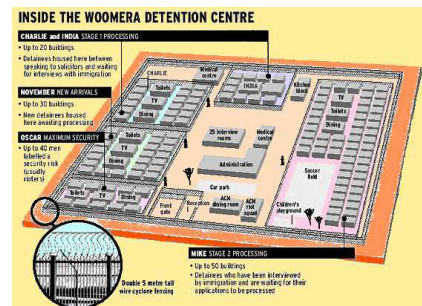
1.3.110



1.3.111



1.3.112

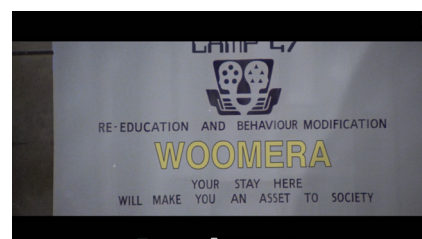


1.3.103-1.3.112 Uncredited images of the Woomera Detention Centre and the 2000 protests

1.3.114



1.3.115

1.3.114-1.3.115 Stills from *Terror Nullius* by Soda_Jerk, 2018 (used with permission by the artists)

1.3.117



Postcard design by Len Beadell
(collection of David Burns, 2018)

1.3.118



Painted depiction of Nurrungar
(uncredited)

1.3.119



Woomera soccer jacket
(uncredited)

1.3.120



Woomera sign (uncredited)

1.3.121



Nurrungar baseball cap
(uncredited)

1.3.122



(uncredited)

1.3.123



1.3.124



1.3.125



1.3.126



1.3.127



1.3.128



1.3.129



1.3.130



1.3.131



1.3.123 - 1.3.131 Various iconography, clothing, signage, and media collected at the Woomera Visitors Centre (photography by David Burns, 2018)

1.3.132



1.3.133



1.3.134



1.3.135



1.3.136

JOINT DEFENCE FACILITY
NURRUNGAR

1.3.137



1.3.138



1.3.139

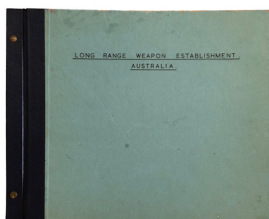


1.3.140



1.3.132 - 1.3.141 Various iconography, clothing, signage, and media collected at the Woomera Visitors Centre (photography by David Burns, 2018)

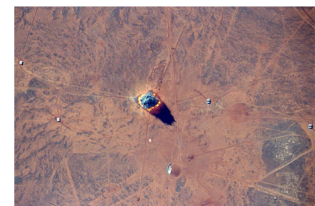
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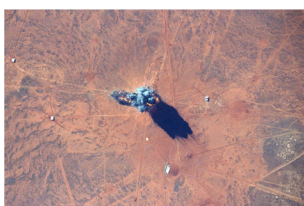
1.3.142



1.3.143



1.3.144



1.3.145



1.3.146



1.3.142 - 1.3.146 Contemporary imagery of weapons tests at Woomera (Australian Defence Force website)

1.3.147



1.3.148



1.3.149



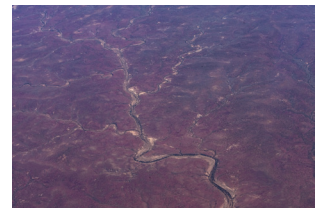
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1.3.151



1.3.152



1.3.153



1.3.154



1.3.155



1.3.156



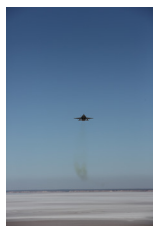
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1.3.158



1.3.159



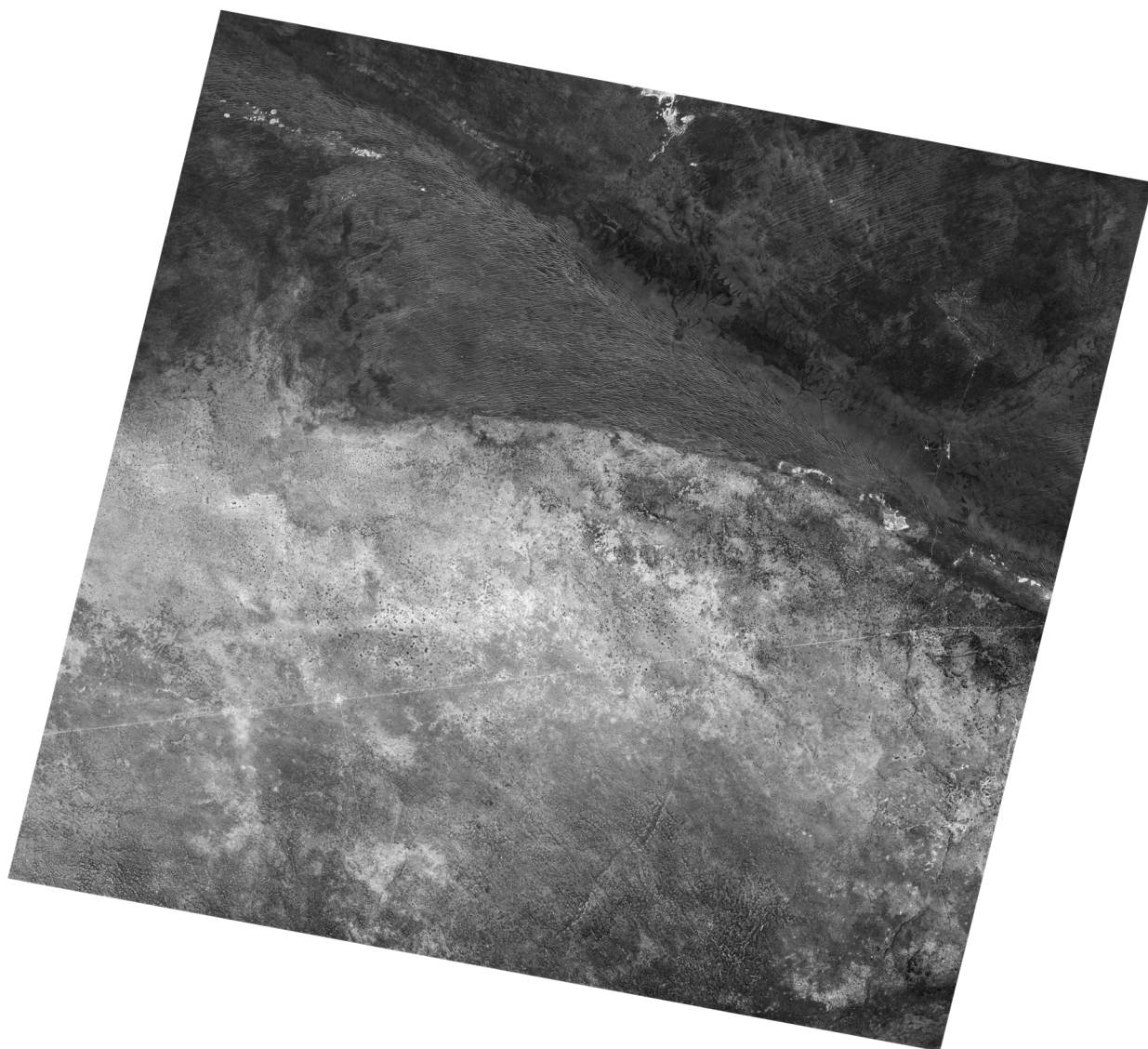
1.3.160



1.3.142 - 1.3.146 Contemporary imagery of weapons tests at Woomera (Australian Defence Force website, accessed 2017)

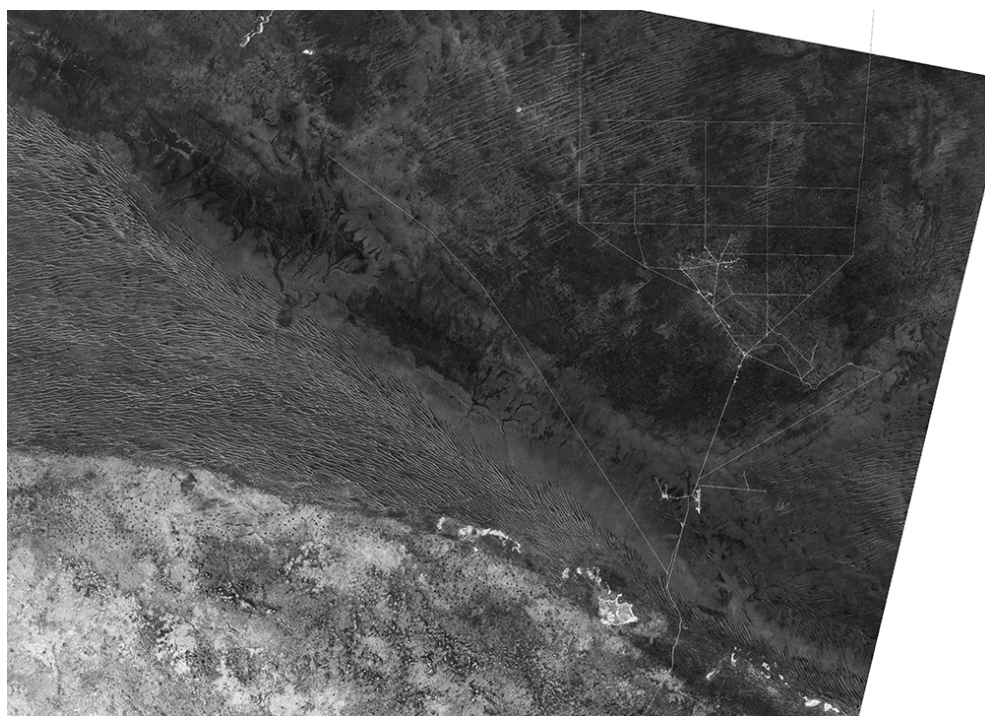
PART 2.0: "WAYS OF LOOKING AT THE WORLD"

2.1: A NUCLEAR FUTURES FALSE POSITIVE



2.1.001A Satellite image of Maralinga, Nullarbor Plain, Great Victorian Desert, Trans-Australian Railway (Landsat: 1990.09.06, modified David Burns, 2019)

2.1.001B Landsat: 1990.09.06 with British roads overlaid (David Burns, 2019)



2.1.001C Satellite composite image of the Maralinga Forward Area (Bing Maps with alterations by David Burns, 2019)



2.1.002A Aerial image of Papunya village depicting a Honey Ant Dreaming streetscape (Photograph: Max Stollznow, 1976)



2.1.002B Aerial image of Papunya village depicting a Honey Ant Dreaming streetscape (Photograph: Max Stollznow, 1976)



FW 2.1 Burns, David. *Tufi Spurs*. 2018.



FW 2.2 Burns, David. *Tufi Ground Zero*. 2018.



FW 2.3 Burns, David. *At Tufi*. 2018.



FW 2.4 Burns, David. *Nuclear Futures False Positive*. 2018.



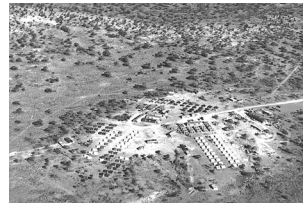
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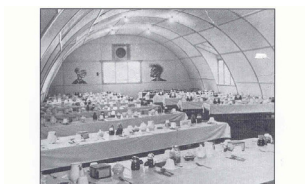
2.1.011



2.1.012



2.1.013



The clean military dining room in one of the Nissen huts at Emu Village. The Nissen is a semicircular cross section made of corrugated steel sheet and lined with a kind of light hardboard sheeting. The huts were named after their inventor British Engineer Lt Col. Peter Nissen.
Photo: Ray Ashburn

2.1.014



The primitive and dusty living accommodations at the contaminated wastelands of Emu Field, Halls Creek, Camp 40 Mile, Camp 11 Mile and Roadside, Manding Range. Photo: Norm Kays

2.1.015



The difficult terrain on the track between Woomera and the Emu Field nuclear testing site. Visual problems with the movement, maintenance and unloading of military materials in the remote desert country of South Australia.
Photo: Norm Kays

2.1.016



2.1.017



The orderly room and water tower at Emu Claypan, 1957.
Photo: Alex Abercrombie

2.1.018



Brigadier Luke Lucas and Capt George Johnston, on the saluting date of the Emu Village parade of the RAAP Detachment of 5 Airfield Construction Squadron.
Photo: Alford Prueker

2.1.019



2.1.020



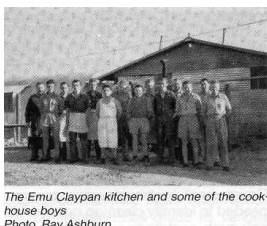
William Penney (centre in dark suit) - Head of HER (High Explosive Research)

2.1.021



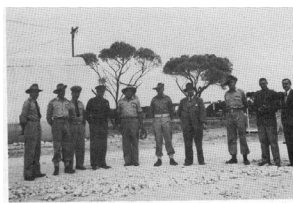
Members of 7 Troop, Field Sqn, R.A.E. and 5 Airfield Construction Sqn, RAAP, in the Nissen hut at Emu Field during 1953.
Photo: Max Jean Bousley

2.1.022



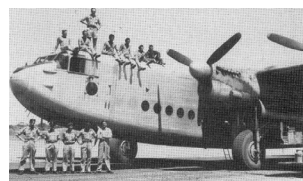
The Emu Claypan kitchen and some of the cook-house boys
Photo: Ray Ashburn

2.1.023



Sgt. Leader Garden, Capt. Johnston, Brig. Lucas, W.O. Bentley, Lt Kennedy, Mr Williams, Mr Russell and Scientist Adams at the Emu Field atomic testing site, 1953.
Photo: Don Thomas

2.1.024



The R.A.F. Avro York aircraft, cargo version of the Avro Lancaster bomber, used on the supply route from Woomera to the Emu Claypan airstrip.
Photo: Don Thomas

2.1.027



The tower at Emu Field (Len Beadell, *Blast the Bush*)

2.1.029



Yami Lester

2.1.030



Queen Elizabeth II and Australian Prime Minister Robert Menzies

2.1.031



2.1.032



2.1.033



2.1.034



2.1.035



2.1.036



2.1.037



2.1.038



2.1.039



2.1.031 - 2.1.039 Various photographs of the surveying and construction of Maralinga Village, ca. 1953-1957 (Robin Matthews)

2.1.040



2.1.041



2.1.042



2.1.043



2.1.044



2.1.045



2.1.046



2.1.047



2.1.048



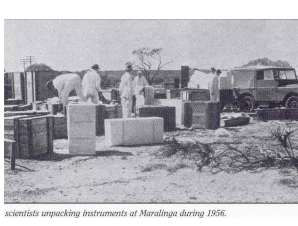
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2.1.050



2.1.051



2.1.052



2.1.053



2.1.054



2.1.055



2.1.056



2.1.057



2.1.058



2.1.059



2.1.060



2.1.061 Aerial image showing extensive aluminium building construction at Maralinga Village, ca. 1953-1957 (Robin Matthews)



2.1.055 - 2.1.061 Various photographs of the surveying and construction of Maralinga Village, ca. 1953-1957 (Robin Matthews)

2.1.072



2.1.073



2.1.074



2.1.075



2.1.076



2.1.077



2.1.078



2.1.079



2.1.080



2.1.081



2.1.082



2.1.083



2.1.084



2.1.085



2.1.086



2.1.087



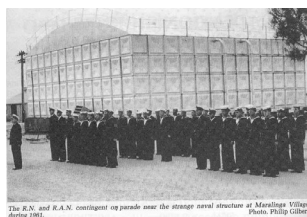
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2.1.089



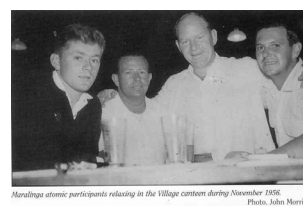
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2.1.091



2.1.092



2.1.093



2.1.094



2.1.095

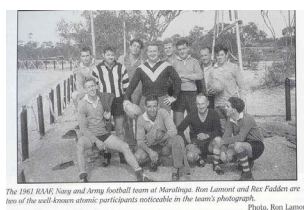


2.1.087 - 2.1.095 Various photographs of the construction and life within Maralinga Village (Robin Matthews)

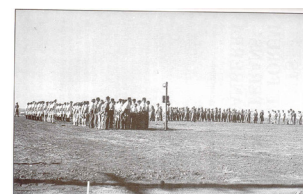
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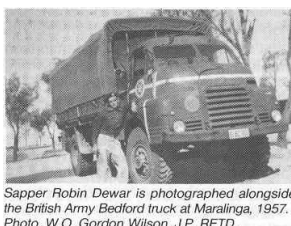
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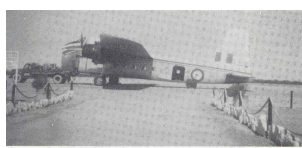
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2.1.100



2.1.101

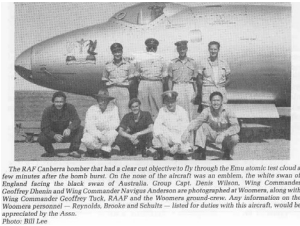


2.1.096 - 2.1.101 Various photographs of the construction and operation of Maralinga Airfield, ca. 1953-1957 (Robin Matthews)

2.1.102



2.1.103



The RAF Canberra bomber that had a close cut objective to fly through the Ems atomic test cloud a few minutes after the bomb burst. On the nose of the aircraft was an emblem, the white cross of England facing the black swan of Australia. Group Capt. John Wright, Wing Commander Geoffrey York, RAAF and the Woomera ground crew are photographed at Woomera, along with Geoffrey Chinn and Wing Commander Neville Anderson are photographed at Woomera, along with Woomera personnel – Reynolds, Brooks and Schulte – listed for duties with this aircraft, would be appropriate to the Anso. Photo: Bill Lee

2.1.104

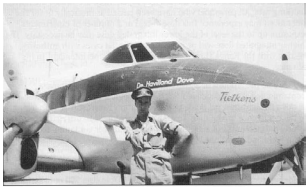


2.1.105



The RAAF and Army crews involved with the movement of the C2 tank, Centurion tank from the Ploetz railway siding, near Woomera, to the Ems field atomic testing area. The photograph was taken west of Woomera, sometime in July/August 1957 and includes Capt J. C. Monaghan, Trooper King, Trooper Forster, Sgt O'Connell, Trooper Jamieson and Sgt William Jones, third from left, front row. 600 Jones passed away in the 1980s from leukemia. Photo: S. Fawcett

2.1.106



The Woomera Research Establishment (now part of the Defence Dept) made arrangements with the Dept of Supply, to hire for a period of two years, 1956/57, two De Havilland Doves aircraft. John Coghlan from the RAAF motor transport section is shown standing in front of the aircraft at the Murrumbidgee airstrip in 1957. Photo: Glen Shadle

2.1.107



The 1962 RAAF Navy and Army football team at Maralinga. Ron Lambert and Rex Padden are two of the well-known atomic participants noticeable in the team's photograph. Photo: Ron Lambert

2.1.108



Australian and British atomic participants resting on their overland journey and expedition through the rough and godforsaken region of South Australia near the Maralinga nuclear testing sites. Note: The sleeveless and collarless leather jackets worn by some of the participants, which were issued at Maralinga from 1956 to provide protection during the freezing winter months in the semi-desert region. Photo: Paul Giordano

2.1.109



The development of self-awareness and mutual understanding between nomadic tribesmen and a preliminary inspection party within the Woomera/Ems region in the 1950s. The second part of the photograph shows the carriage of fuel by RAAF personnel to Ems Village. Photo: Norm Kane

2.1.110



2.1.102 - 2.1.110 Various photographs of the construction and operation of Maralinga Airfield (Robin Matthews)

2.1.112



Rex Abercrombie and Roy Miller at the roadside test camp - Maralinga 1957. Photo: Alex Abercrombie

2.1.113

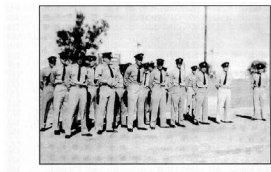


RAAF Navy and Army personnel enjoying some recreation in the salty, brackish water hose storage tank near Maralinga. Photo: John Marriot

2.1.114



2.1.115



The RAAF Maralinga element photographed in the semi desert heat and dust during 1962. Photo: Westy Martin

2.1.116



Three RAAF motor transport officers, including Tim Cant, Brian Hines and Chris Wood, enjoying a meal cooked out of boxes over an open fire, during the dry months of 1963. Photo: Ken Turner

2.1.112 - 2.1.116 Various photographs of life at Maralinga Village, ca. 1953-1957 (Robin Matthews)

2.1.117



The RAAF group photograph of transport drivers, mechanics and fitters at Maralinga in 1957. Fred Daroux, Ned McKenzie, Roy Allen, Fred Bush, Barry Davidson, John Coghlan and Jim Warren are some of the motor transport people in the photograph. Photo: Glen Shale

2.1.118



RAAF Army and Navy personnel photographed having refreshments at the Maralinga Village canteen prior to Christmas 1958. Most service people at Maralinga during 1958 and 1957 were issued with Army khaki working clothes, except cooks with their weekly exchange of whites. Photo: Peter Connor

2.1.119

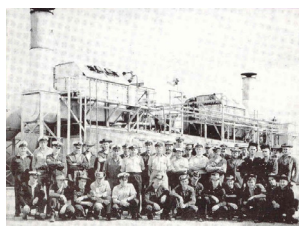


2.1.120



RAAF personnel at Maralinga during 1962/63, from left to right: Westy Martin, two unidentified servicemen and the late James Coleman. Jim Coleman passed away from leukaemia in the 1980's. The High Court damages claim by Jim's widow was settled out of court. Photo: Westy Martin

2.1.121



2.1.122



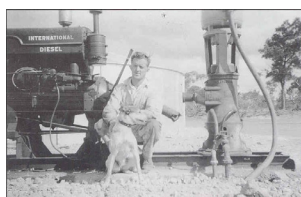
Some of the Royal Army personnel involved at Maralinga during the 1960's. Photo: Michael Chandler

2.1.123



The 2-lane sealed road from Watson railway siding to the Maralinga Village and further north in the 57 mile drive to Adelaide. The road for another 27 miles was sealed single lane to the One Tree and Hovren testing sites. Most of the bitumen road at the forward area testing sites was destroyed by the fall from the nuclear blast. Photo: John Harrison

2.1.124



Russ Kingsley and the Maralinga Range mascot 'Chloe' the dog, photographed at the No. 8 water pumping station. Photo: Russ Kingsley

2.1.125



Russ Kingsley at the No. 12 water bore near Maralinga in the dry months of 1958. The village dog, Chloe is keeping Russ company in the uninhabitable desiccated surroundings. Photo: Russ Kingsley

2.1.126



RAAF, Army and Navy personnel enjoying drinks in the remote beer garden structure at Maralinga during 1958. The confused army fellow in the photograph had jammed the very top by mistake. Photo: Peter Connor

2.1.127



2.1.128



2.1.129



RAAF & Army atomic participants photographed near the Enns Village transport compound. Most of them were unaware that within 10 years they would be dying from various strange cancers that were previously unknown in Australia. Photo: Athol Proctor

2.1.130



RAAF Army and Navy personnel participating at the Maralinga sports day in 1962. Photo: Matt Hamilton

2.1.131



Unidentified RAAF personnel at Maralinga for the better Series of nuclear detonations in 1957. Note the safety conditions with vehicles without doors. Photo: Westy Martin

2.1.117 - 2.1.131 Various photographs of life at Maralinga Village, 1953-1961 (Robin Matthews)

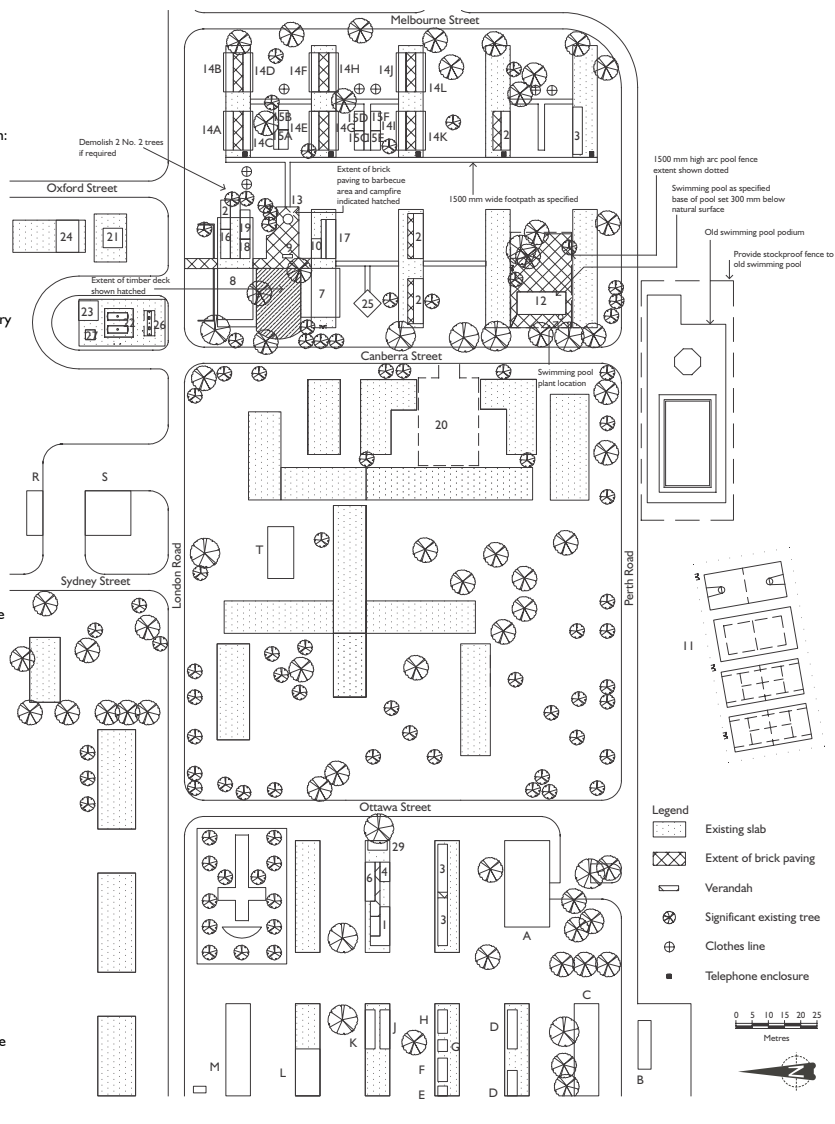
- 2.1.139 Maralinga Village during remediation, 1995-2000 (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia), 2003: Report by the Maralinga Rehabilitation Technical Advisory Committee, Department of Education, Science and Training*)

Existing buildings

- A. APS Headquarters
- B. Telecom accommodation demountable
- C. VIP building
- D. ISR accommodation: 4 room units
- E. Male ablution demountable
- F. Laundry/female demountable
- G. Dry food store demountable
- H. Mess demountable
- J. ANSTO laboratory
- K. ARPANSA laboratory
- L. Generator shed
- M. Bedding store
- R. Storage shed
- S. Maintenance workshop (fire station)
- T. Flammable store

New Buildings

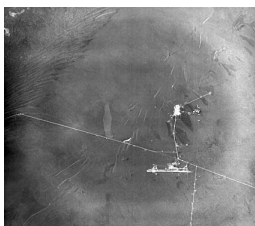
- 1. GHD office
- 2. Accommodation: 2 room ensuite
- 3. Office/ensuite accommodation
- 4. GHD ablutions
- 6. Health physics store and workshop
- 7. Mess
- 8. Recreation room
- 9. BBQ area
- 10. Mess/recreation ablutions
- 11. Sports courts
- 12. Swimming pool
- 13. Camp fire area
- 14. Accommodation: 4 room units
- 15. Ablution block
- 16. Camp operators office
- 17. Medical centre
- 18. Linen Store
- 19. Bedding laundry
- 20. Carpark
- 21. Camp operators maintenance workshop
- 22. Fuel storage
- 23. Oil and grease store
- 24. Generation shed
- 25. Gymnasium
- 26. Fuel Bowvers
- 27. Waste oil storage



2.1.140



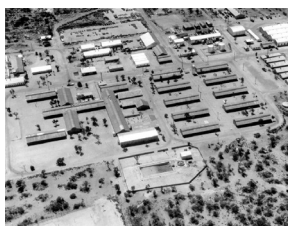
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2.1.142



2.1.143



2.1.144



2.1.145



2.1.146



2.1.147



2.1.148



2.1.149



2.1.150



2.1.151



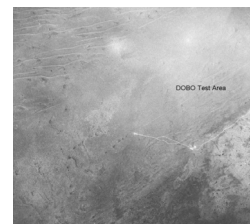
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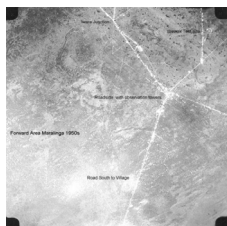
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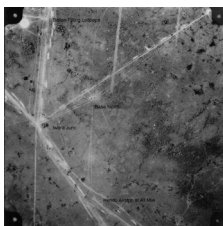
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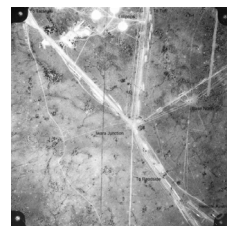
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2.1.156



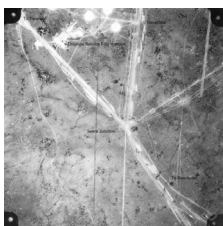
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2.1.159



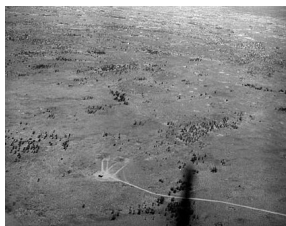
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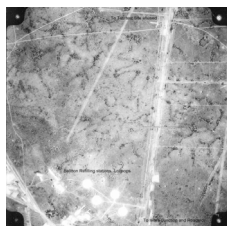
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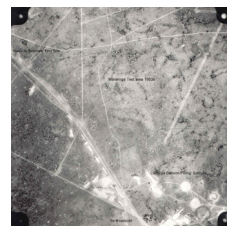
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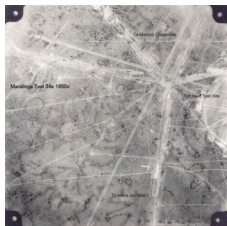
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2.1.166



2.1.167



2.1.168



2.1.169



2.1.155 - 2.1.169 Various aerial photographs of Maralinga Forward Area and surrounding areas, ca. 1953-1961 (Robin Matthews)

2.1.170



2.1.171



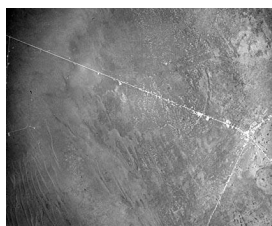
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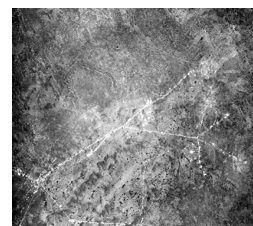
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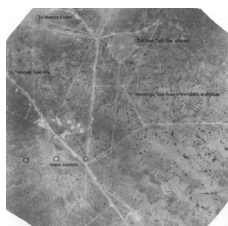
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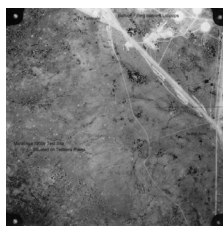
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2.1.176



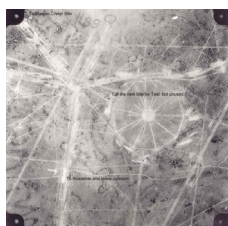
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2.1.178



2.1.179



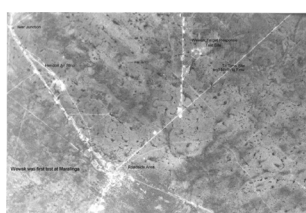
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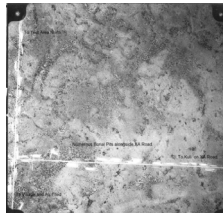
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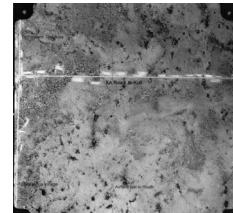
2.1.182



2.1.183



2.1.184



2.1.170 - 2.1.184 Various aerial photographs of Maralinga Forward Area and surrounding areas, ca. 1953-1961 (Robin Matthews)

2.1.185



2.1.186



2.1.187



2.1.188



2.1.189



2.1.190



2.1.191



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2.1.193



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2.1.197



2.1.198



2.1.199



2.1.200



2.1.201



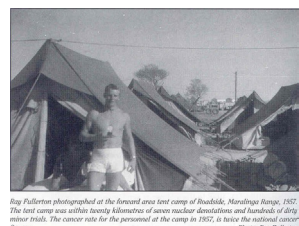
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2.1.203

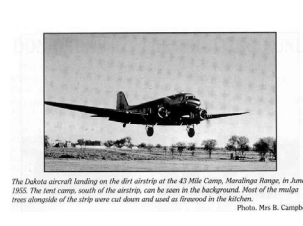


2.1.204



Ray Fullerton photographed at the forward area test camp of Roadside, Maralinga Range, 1957. The test camp was within twenty kilometres of seven nuclear detonations and hundreds of dirty, minor trials. The cancer rate for the personnel of the camp in 1957, is twice the national cancer figures. Photo: Ray Fullerton

2.1.205



The Dakota aircraft landing on the dirt airstrip at the 43 Mile Camp, Maralinga Range, in June 1955. The test camp, south of the airstrip, can be seen in the background. Most of the mulga trees alongside of the strip were cut down and used as firewood in the kitchens. Photo: Mrs B. Campbell

2.1.206



2.1.207



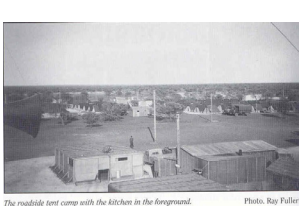
2.1.208



2.1.209



2.1.210



The roadside tent camp with the kitchen in the foreground. Photo: Ray Fullerton

2.1.211



2.1.212



2.1.213



2.1.214



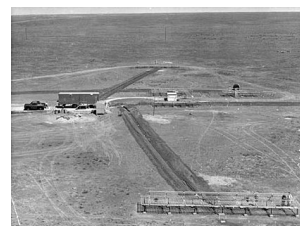
2.1.215



2.1.216



2.1.217



2.1.218



2.1.219



2.1.221



2.1.215 - 2.1.221 Various photographs of Roadside at Maralinga Forward Area, ca. 1953-1961 (Robin Matthews)

2.1.220 A man in protective clothing at Maralinga with a camera also protected by a plastic cover, 1956. (National Archives of Australia, A6457, P214)



2.1.221



2.1.222



2.1.223



2.1.224



2.1.225



2.1.226



2.1.227



2.1.228



2.1.229



2.1.230



2.1.231



2.1.232



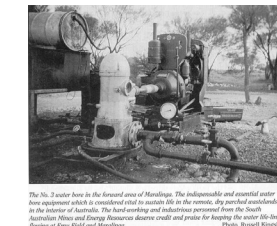
2.1.233



2.1.234



2.1.235



The No. 3 water bore is the forward area of Maralinga. The indispensable and essential water bore equipment which is considered vital to sustain life in the remote, dry parched outlands in the interior of Australia. The best-looking and industrial personnel from the South Australian Mines and Energy Resources deserve credit and praise for keeping the water life-line flowing at Eneabba and Maralinga.

2.1.236



2.1.237



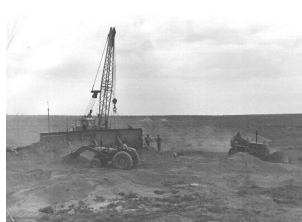
2.1.238



2.1.239



2.1.240



2.1.241



2.1.242



2.1.243



2.1.244



2.1.245



2.1.246



2.1.247



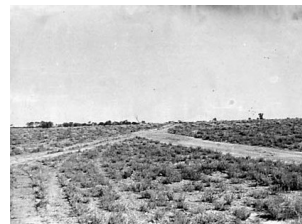
2.1.248



2.1.249



2.1.250



2.1.251



2.1.252



2.1.253



2.1.254



2.1.255



2.1.256



2.1.257



2.1.258



2.1.259



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2.1.261



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2.1.274



2.1.275



2.1.276



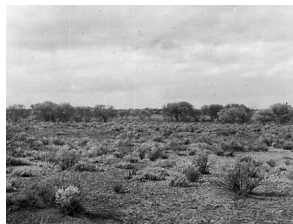
2.1.277



2.1.278



2.1.279



2.1.280



2.1.266 - 2.1.280 Various photographs of surveying and trig point construction at Tietkens Well and surrounding areas, 1953-1961 (Robin Matthews)

2.1.281



2.1.282



2.1.283



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2.1.293



2.1.294



2.1.295



2.1.281 - 2.1.295 Various photographs of surveying and construction Tietkens Plain and Watson, 1953-1961 (Robin Matthews)

2.1.296



2.1.297



2.1.298



2.1.299



2.1.300



2.1.301



2.1.302



2.1.303



2.1.304



2.1.305



2.1.306



2.1.307



2.1.296 - 2.1.307 Various photographs of quarrying and construction Watson, 1953-1961 (Robin Matthews)

FW 2.5 Burns, David. *Old Fire Station (Maralinga Village)*. 2018.



FW 2.6 Burns, David. *Old Provision Store (Maralinga Village)*. 2018.



FW 2.7 Burns, David. *At Maralinga Airfield I*. 2018.



FW 2.8 Burns, David. *At Maralinga Airfield II*. 2018.



FW 2.9 Burns, David. *At Maralinga Airfield Terminal I.* 2018.



FW 2.10 Burns, David. *Maralinga Airfield III.* 2018.



FW 2.11 Burns, David. *Maralinga Airfield Terminal II*. 2018.



FW 2.12 Burns, David. *Maralinga Airfield Terminal III*. 2018.



FW 2.13 Burns, David. *Maralinga Airfield Terminal IV*. 2018.



FW 2.14 Burns, David. *Maralinga Airfield Terminal V*. 2018.



FW 2.15 Burns, David. *Maralinga Airfield IV (Water catchment)*. 2018.



FW 2.16 Burns, David. *Inside Robin's Truck I*. 2018.



2.1.328



2.1.329



2.1.330



2.1.331



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2.1.345



2.1.355



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2.1.357



2.1.358



2.1.359



2.1.360



2.1.361



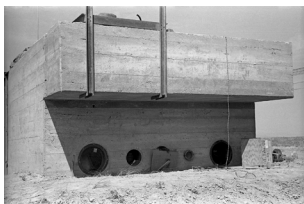
2.1.362



2.1.363



2.1.364



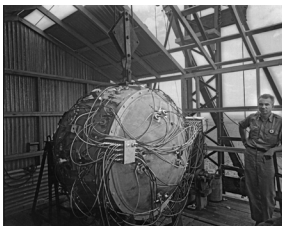
2.1.365



2.1.366



2.1.367



2.1.368



2.1.369



2.1.355 - 2.1.369 Trinity nuclear test, ca. 1945 (uncredited)

FW 2.18 Burns, David. *Maralingite*. 2018-19.



FW 2.17 Burns, David. *Gona I*. 2018.



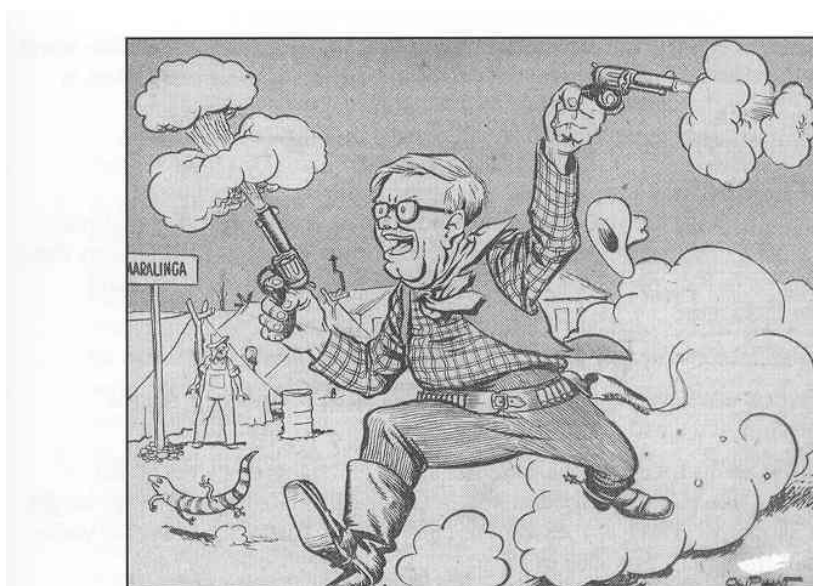
- 2.1.371 Jonathan Kumintjarra Brown, *Frogmen*, Synthetic Polymer Paint, Natural Ochre And Sand On Canvas, 122 X 92 Cm, 1996, Copyright: Neil Mcleod Fine Art



- 2.1.372 Cover of The Advertiser, Adelaide, South Australia, 28 September 1956



- 2.1.373 Cartoon of William Penney (uncredited)



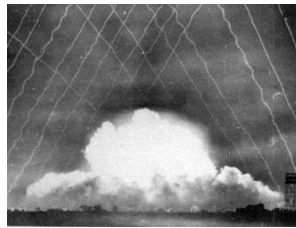
The descriptive, satirical drawing from the 1956 newspaper concerning "Penney Crackers" at the Maralinga 1956 nuclear tests, code-named Operation Buffalo with Chief Scientist Sir William Penney.

Photo. Trevor Robinson

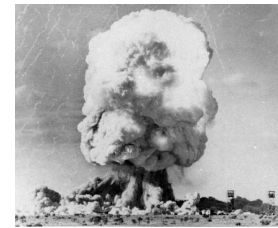
2.1.375 "New Atomic Test in Australia", New York Times. 28 September 1956



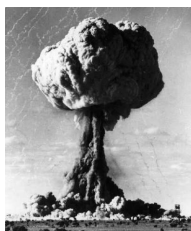
2.1.377 One Tree



2.1.378 One Tree



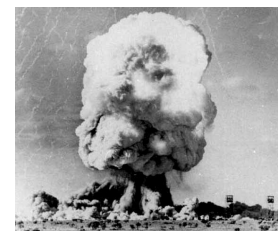
2.1.379 One Tree, 27 September 1956



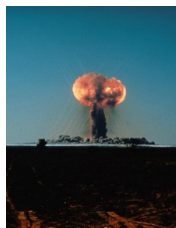
2.1.380 One Tree, 27 September 1956



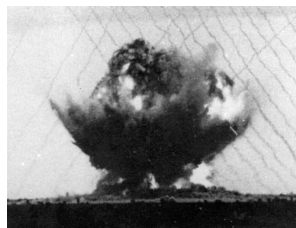
2.1.381 One Tree with towers in foreground, , 27 September 1956



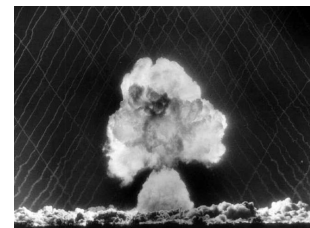
2.1.382 One Tree, 27 September 1956



2.1.384 Marcoo, 4 October 1956



2.1.385 Kite, 11 October 1956



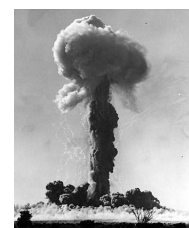
2.1.386



2.1.387



2.1.389 Antler, 1957



2.1.390 Taranaki, 9 October 1957



2.1.391



2.1.392



2.1.393



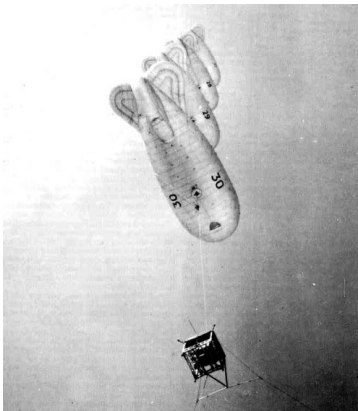
2.1.394



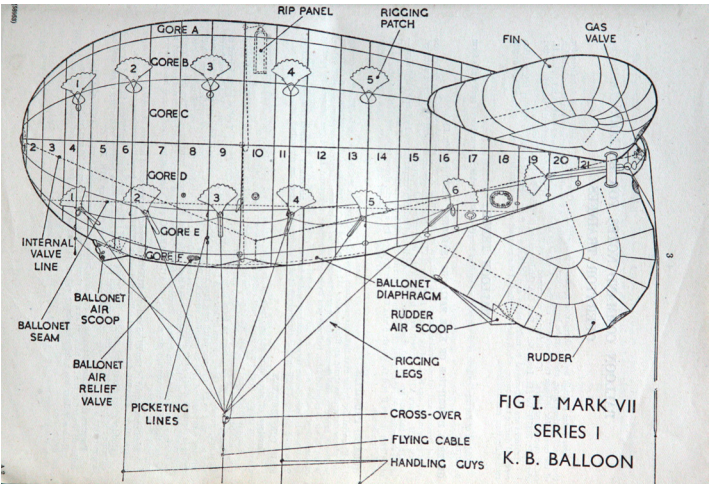
2.1.396 Example of balloon suspension method



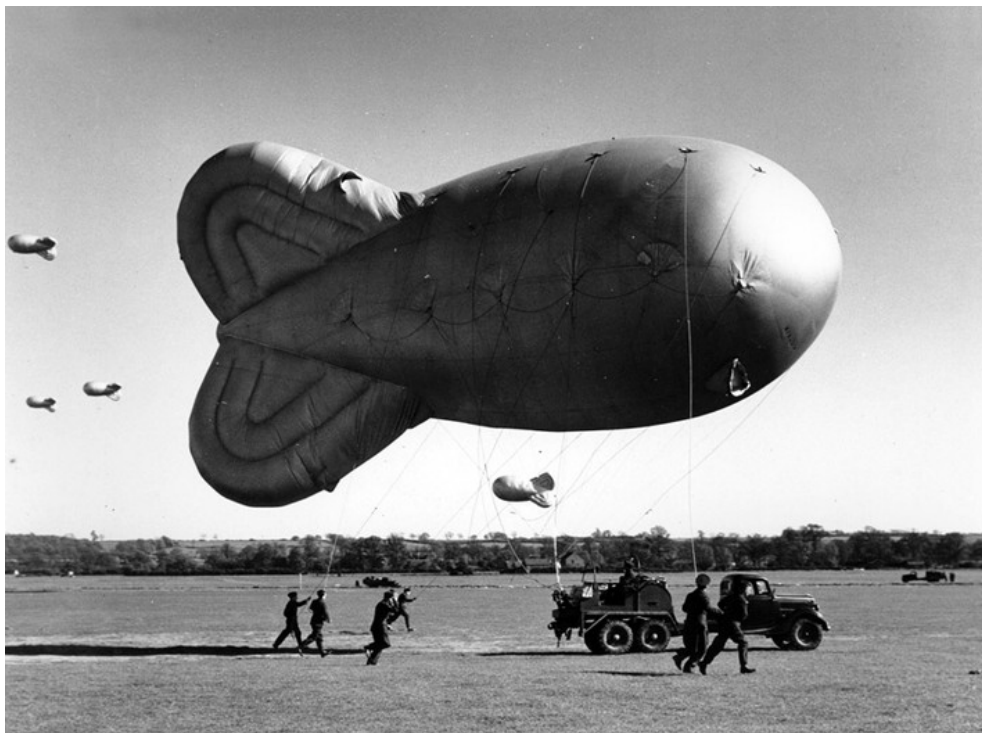
2.1.397 Example of barrage balloon suspension method



2.1.399 Barrage balloon diagram



2.1.400 Barrage balloon in Hyde Park, World War II



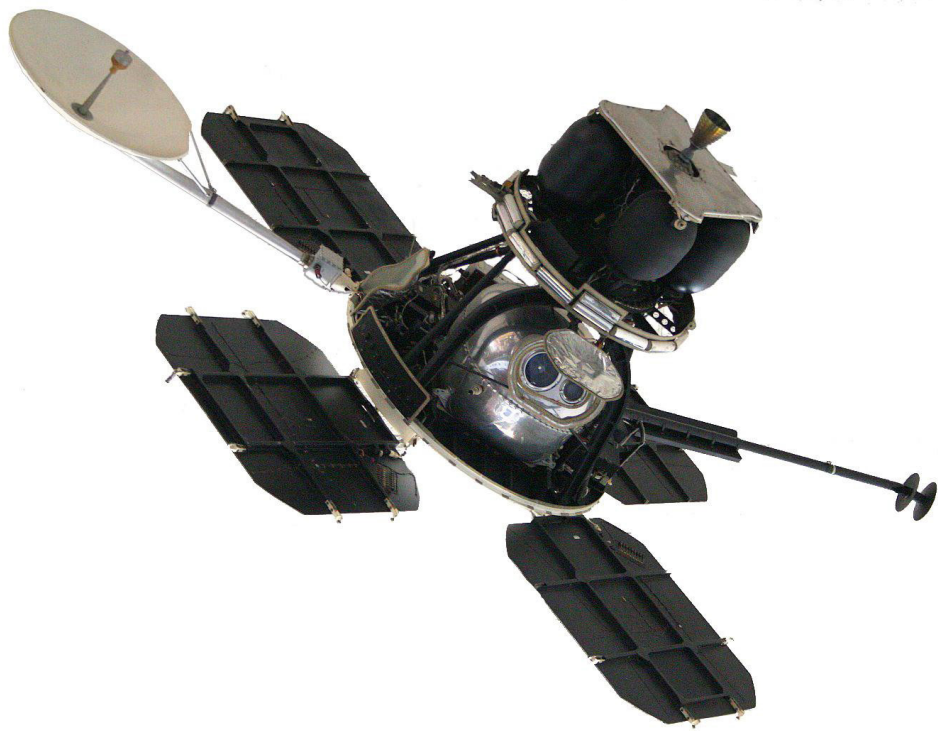
2.1.407 Barrage balloons rising at Taranaki, ca. 1956 (uncredited)



PART 2.0: "WAYS OF LOOKING AT THE WORLD"

2.2: LOOKING AT THE EARTH

2.2.001 Lunar Orbiter (NASA, 1966)



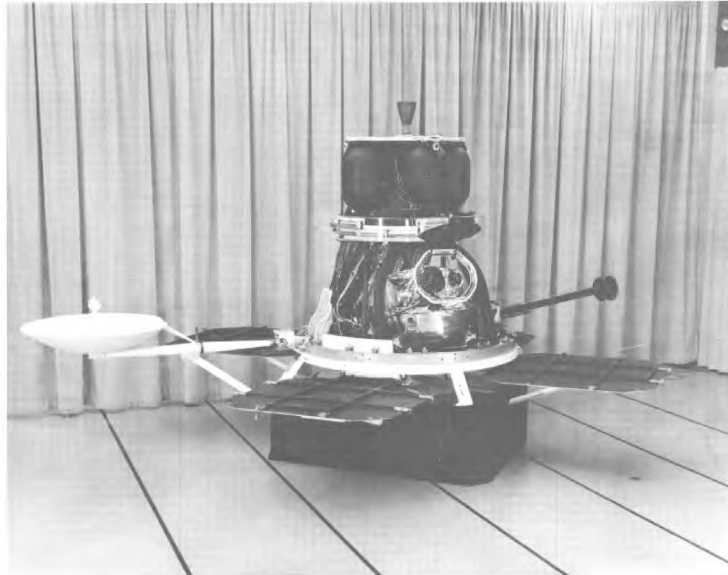
2.2.002 Lunar Orbiter (NASA, 1966)



2.2.003 Launch of Lunar Orbiter I (NASA, 1966)

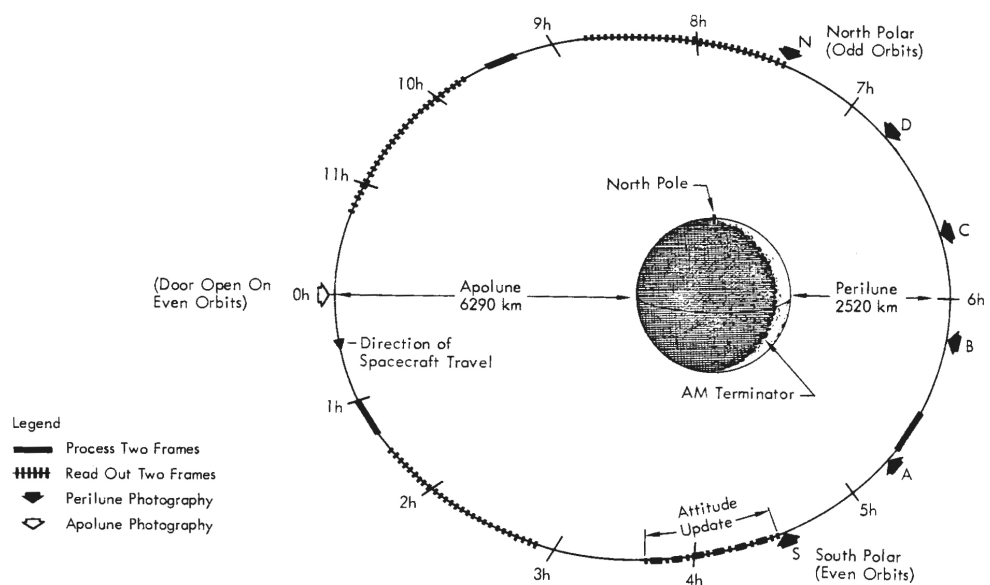


2.2.004 From the cover of "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)

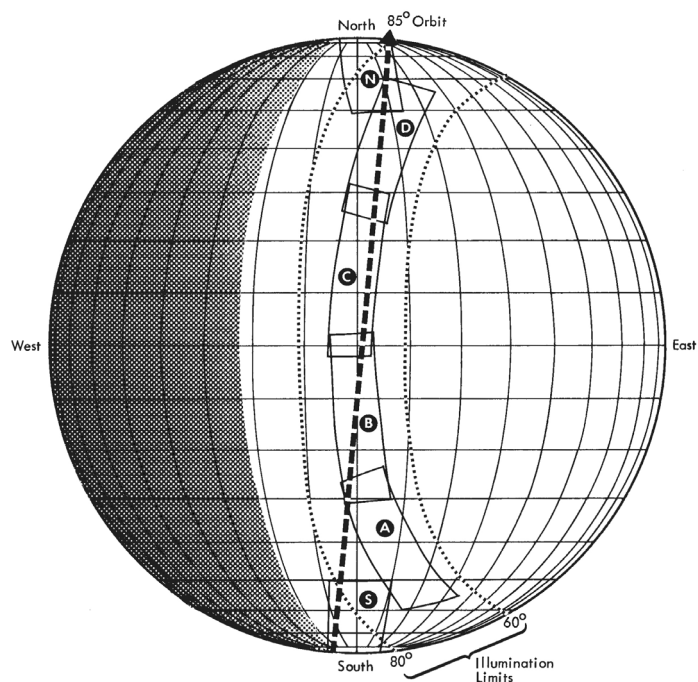


LUNAR ORBITER IV PHOTOGRAPHIC MISSION SUMMARY

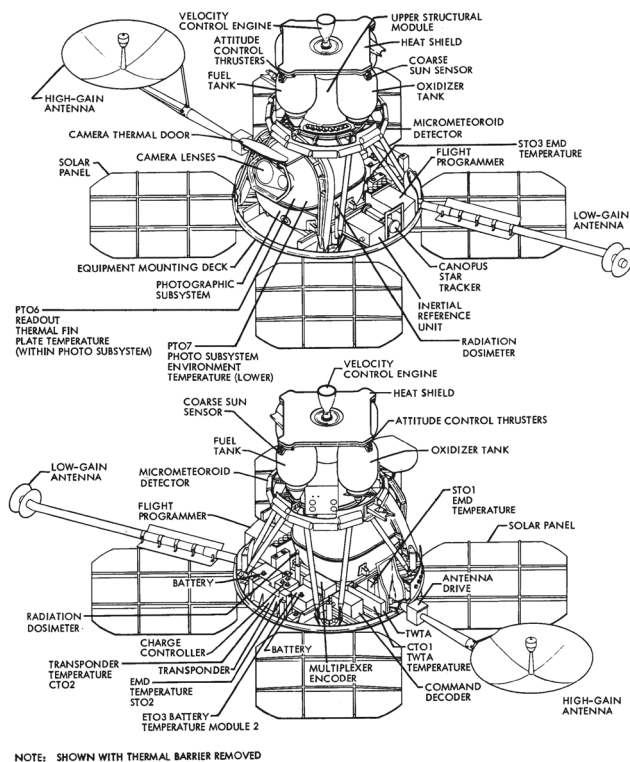
2.2.005 Diagram outlining the Lunar Orbiter functions while orbiting the moon from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



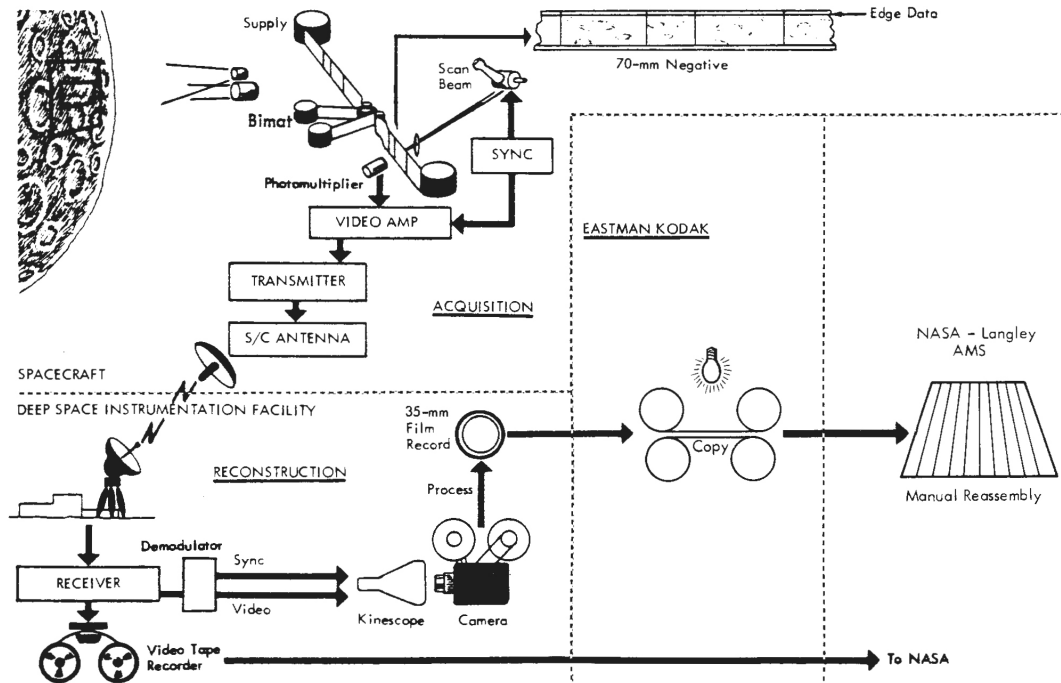
2.2.006 Diagram of photographic coverage during one orbit (NASA, 1968)



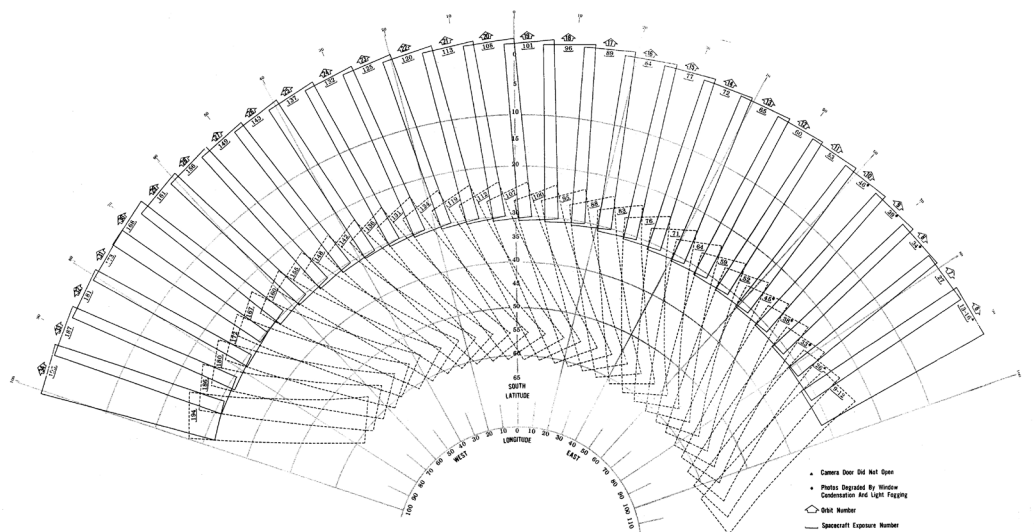
2.2.007 Axonometric drawing of the Lunar Orbiter from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



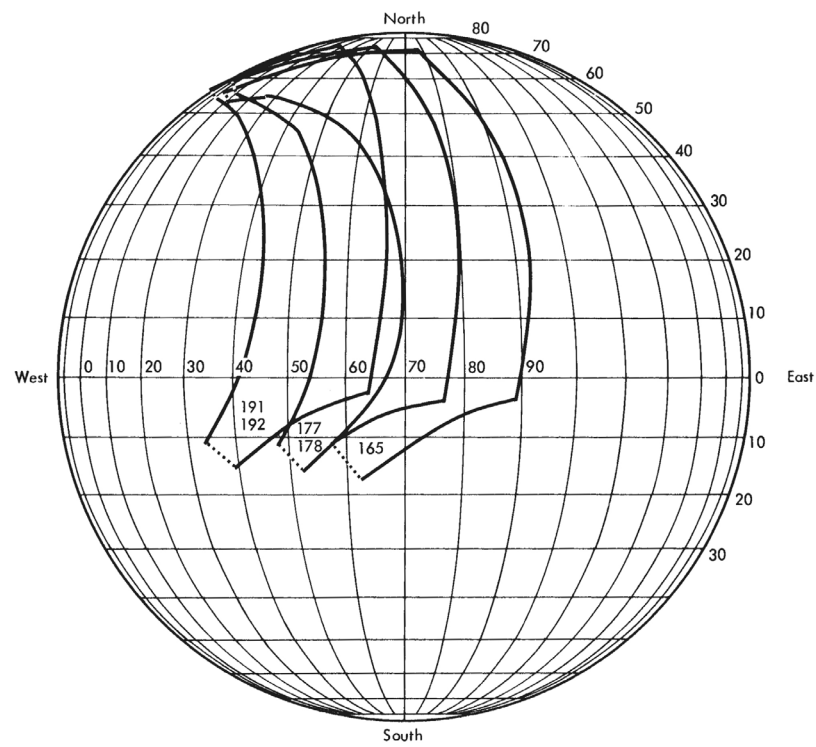
2.2.008 Diagrammatic description of the photographic, developing, printing, scanning, and transmission processes of the Lunar Orbiter from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



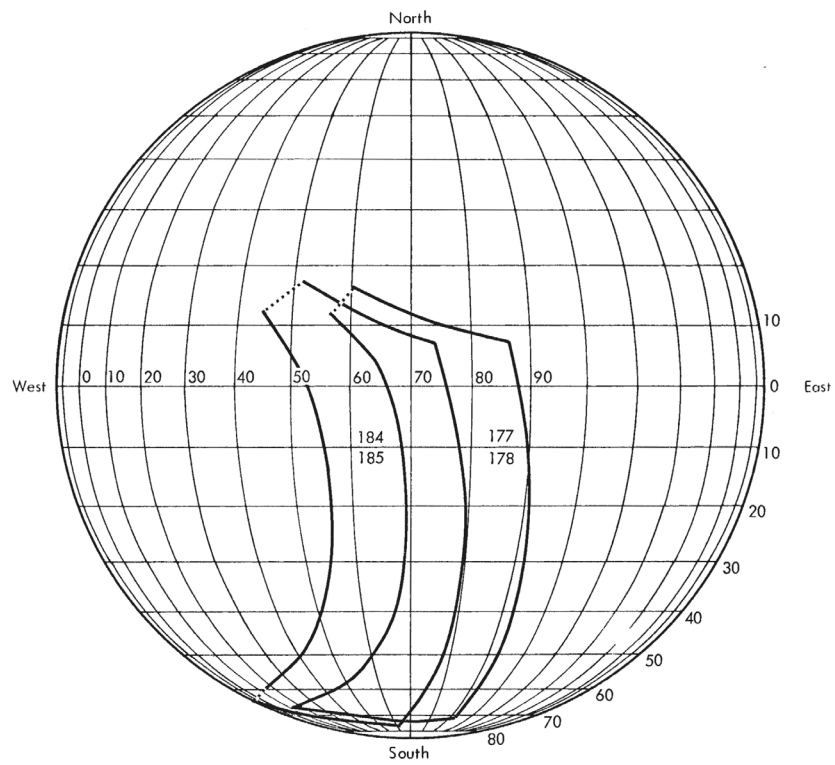
2.2.009 Overlaid photographic coverage from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



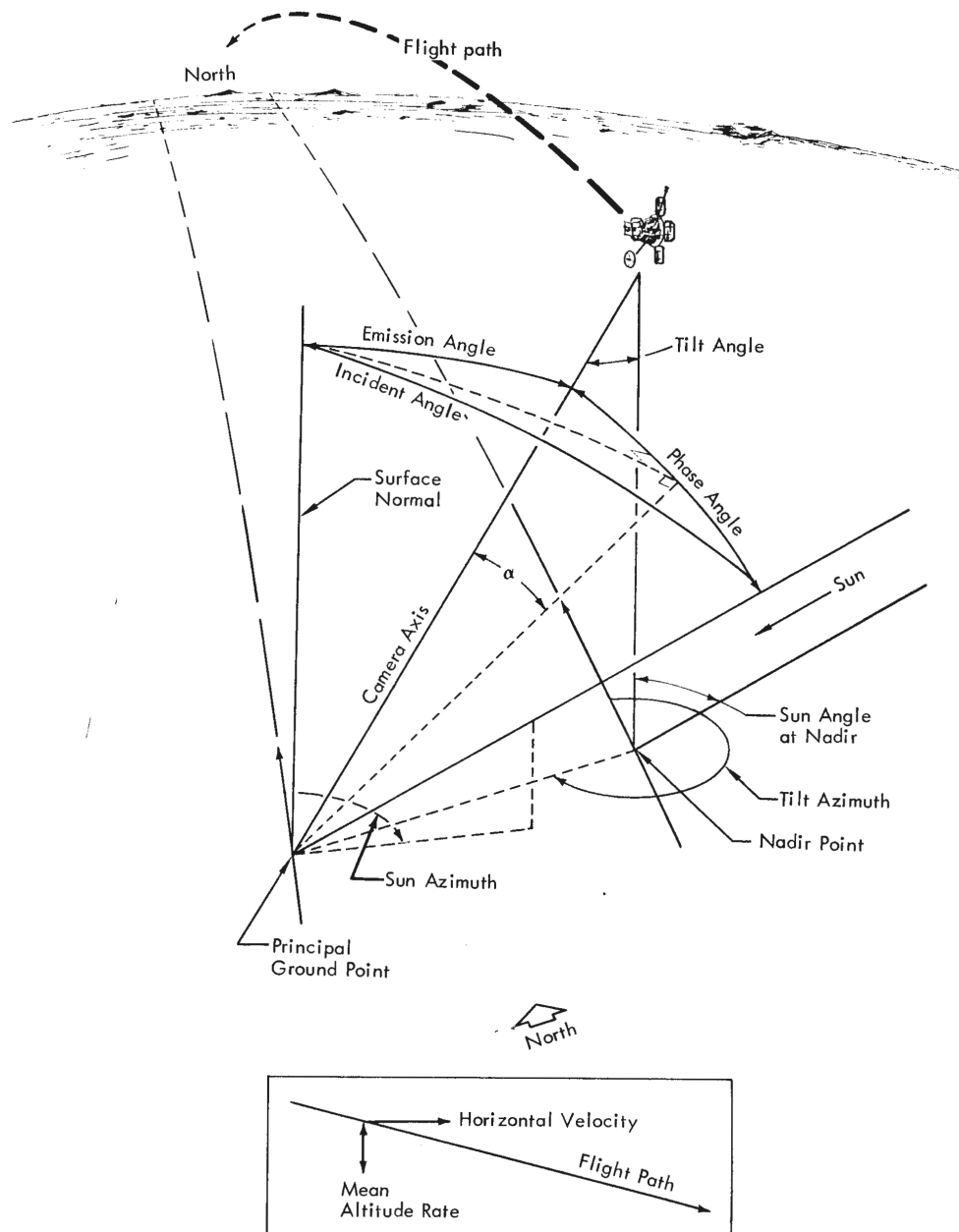
2.2.013 Overlaid photographic coverage from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



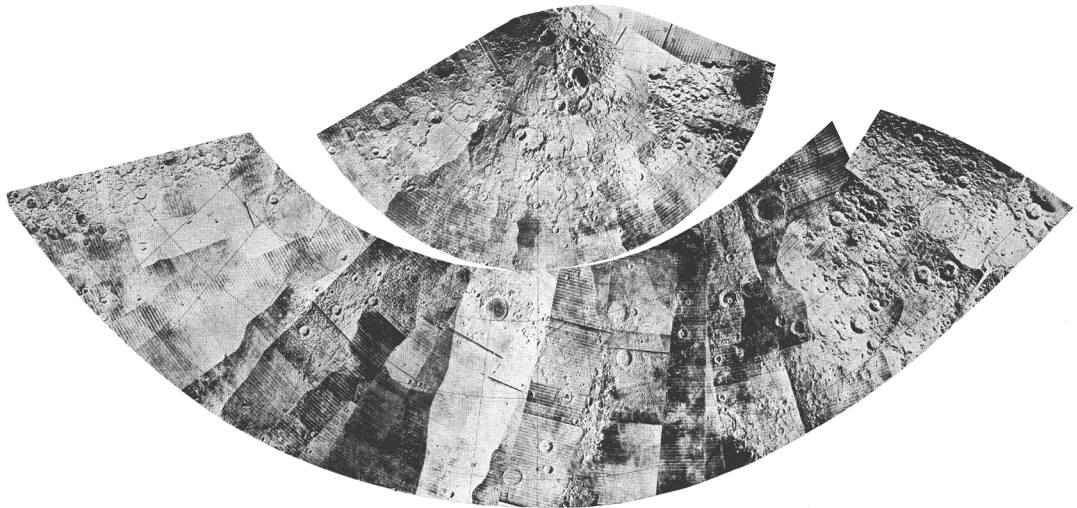
2.2.014 Overlaid photographic coverage from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



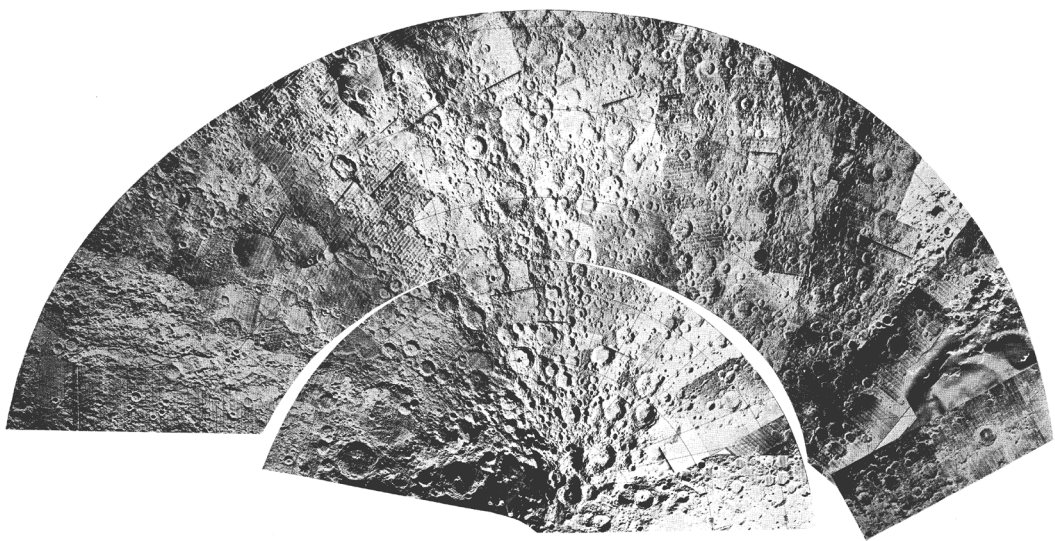
2.2.015 Diagrammatic description of the angle of photography from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



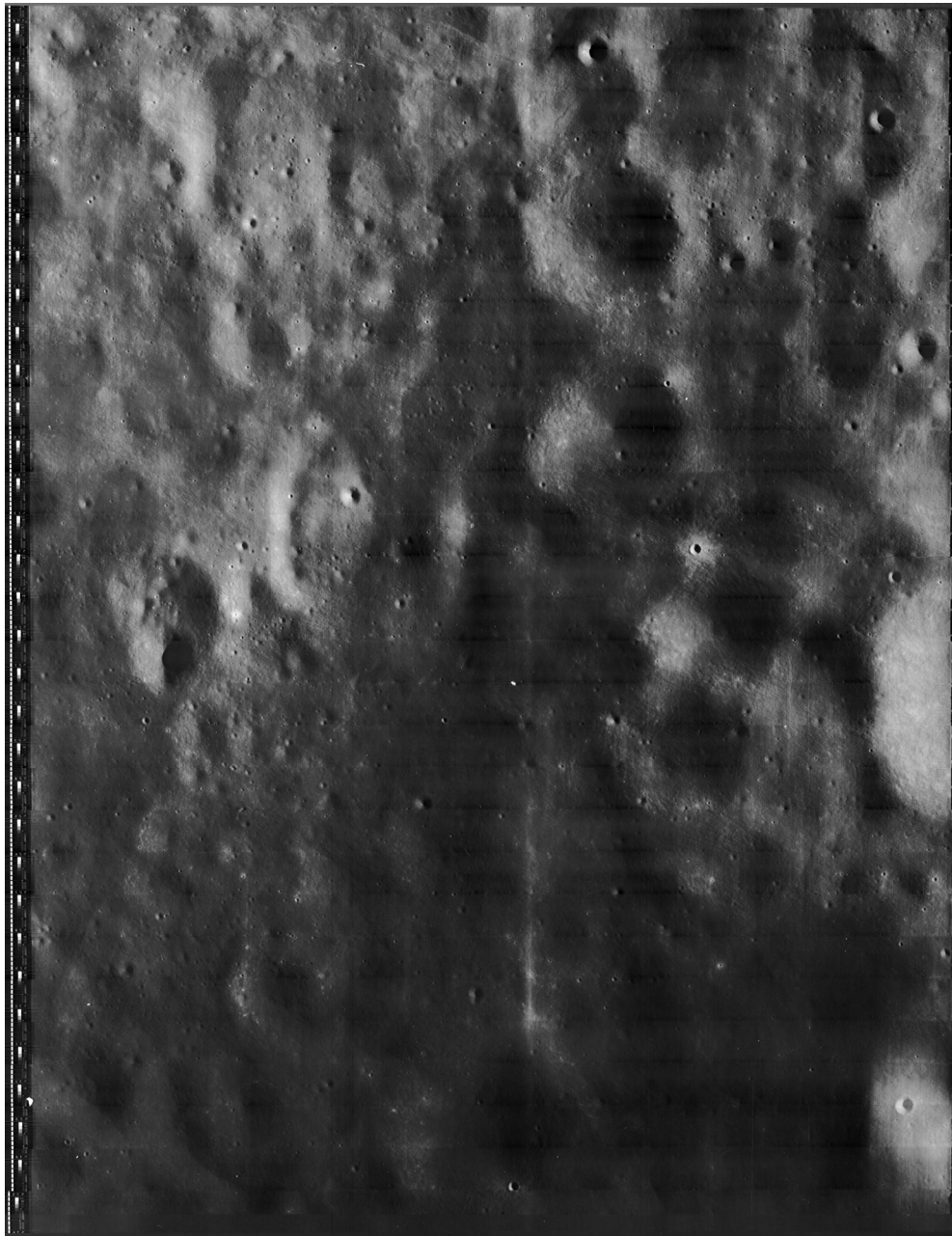
2.2.016 Photographic collage lunar images from “Lunar Orbiter IV Photographic Mission Survey” (NASA, 1968)



2.2.017 Photographic collage lunar images from “Lunar Orbiter IV Photographic Mission Survey” (NASA, 1968)



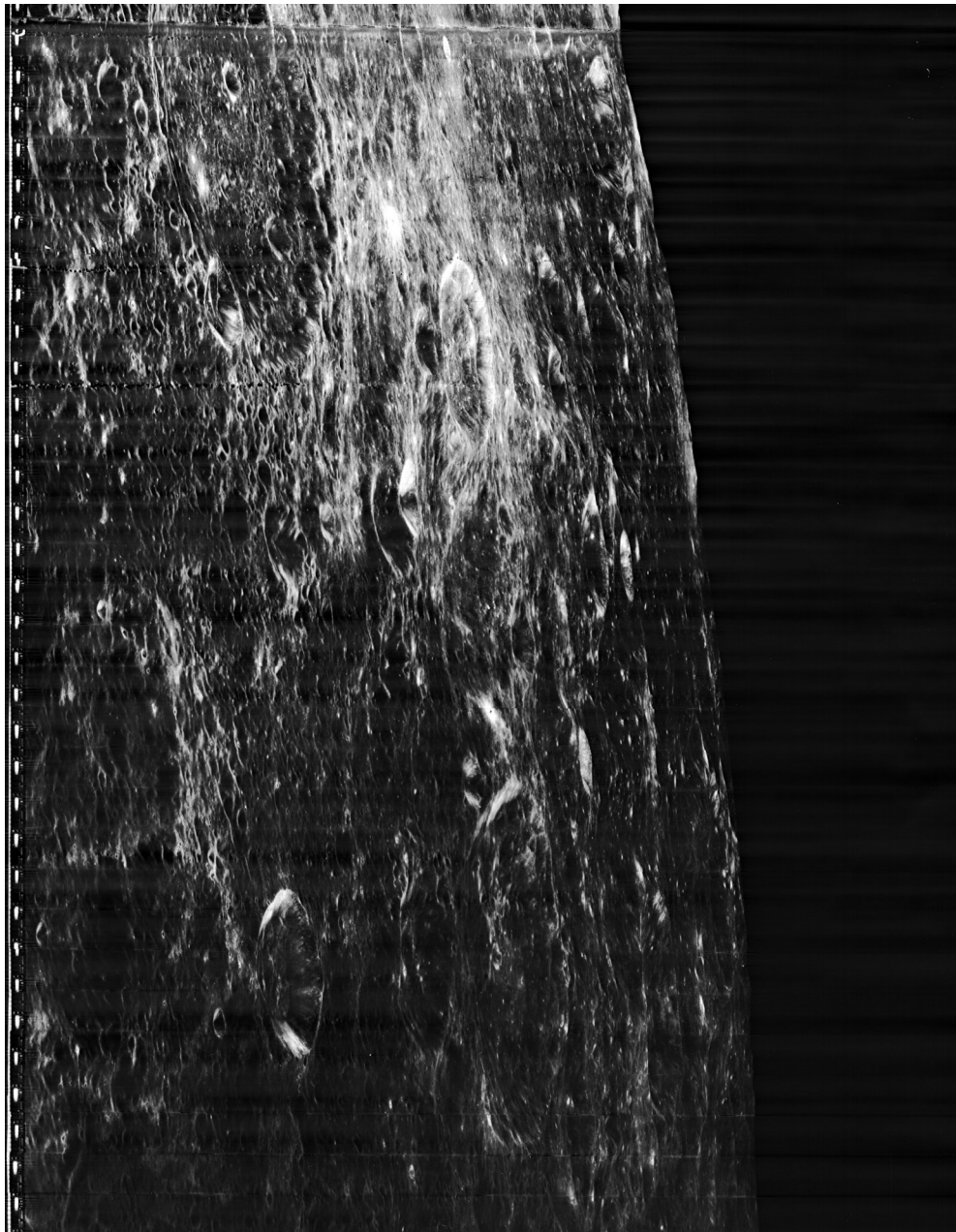
2.2.023 Photographic collage of lunar images from “Lunar Orbiter IV Photographic Mission Survey” (NASA, 1968)



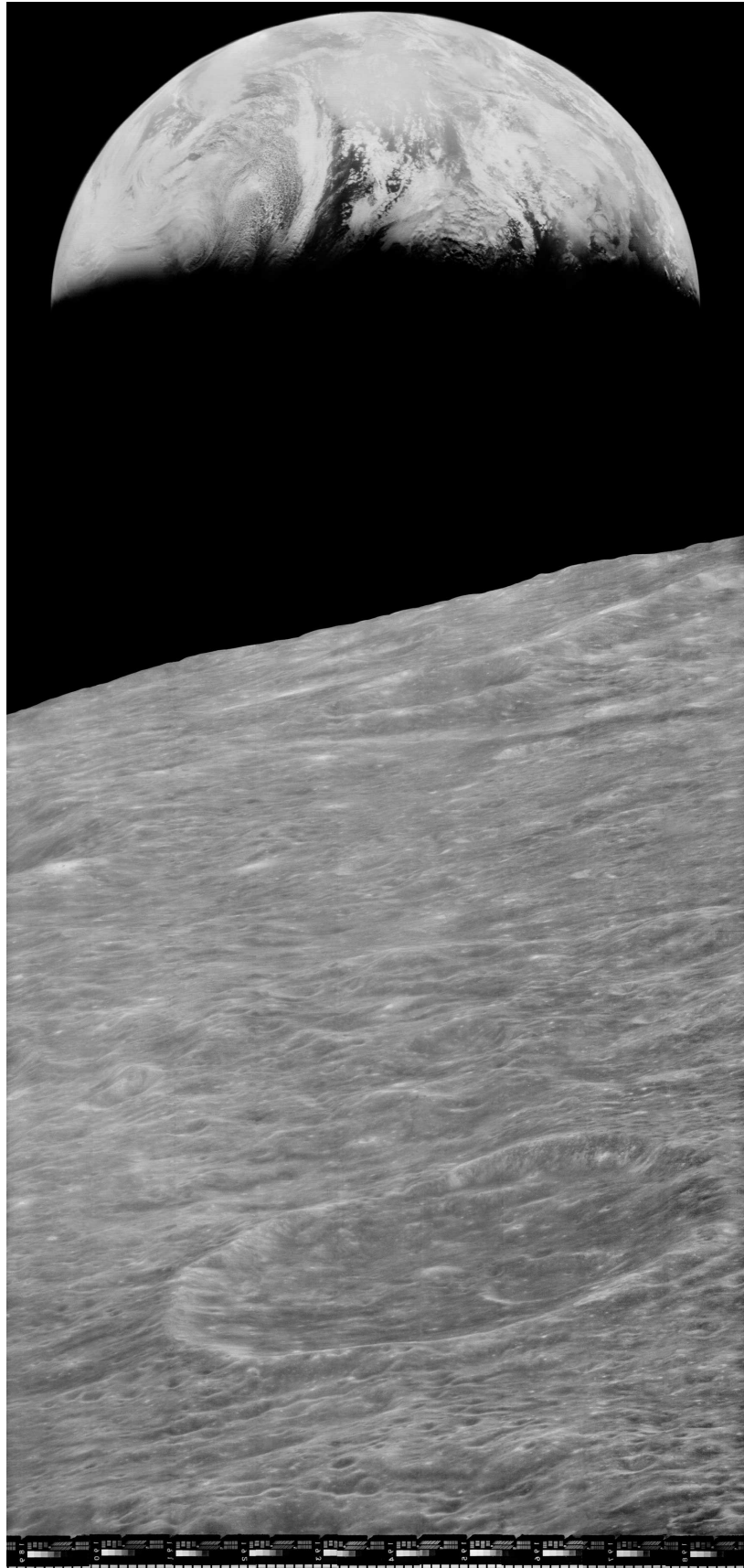
2.2.024 Photographic collage of lunar images from “Lunar Orbiter IV Photographic Mission Survey” (NASA, 1968)



2.2.025 Photographic collage of lunar images from "Lunar Orbiter IV Photographic Mission Survey" (NASA, 1968)



2.2.034 Reconstituted image (detail) from Lunar Orbiter I of the Earth, the first image of the Earth from the Moon (NASA / Lunar Orbiter Image Recovery Project, 2014)



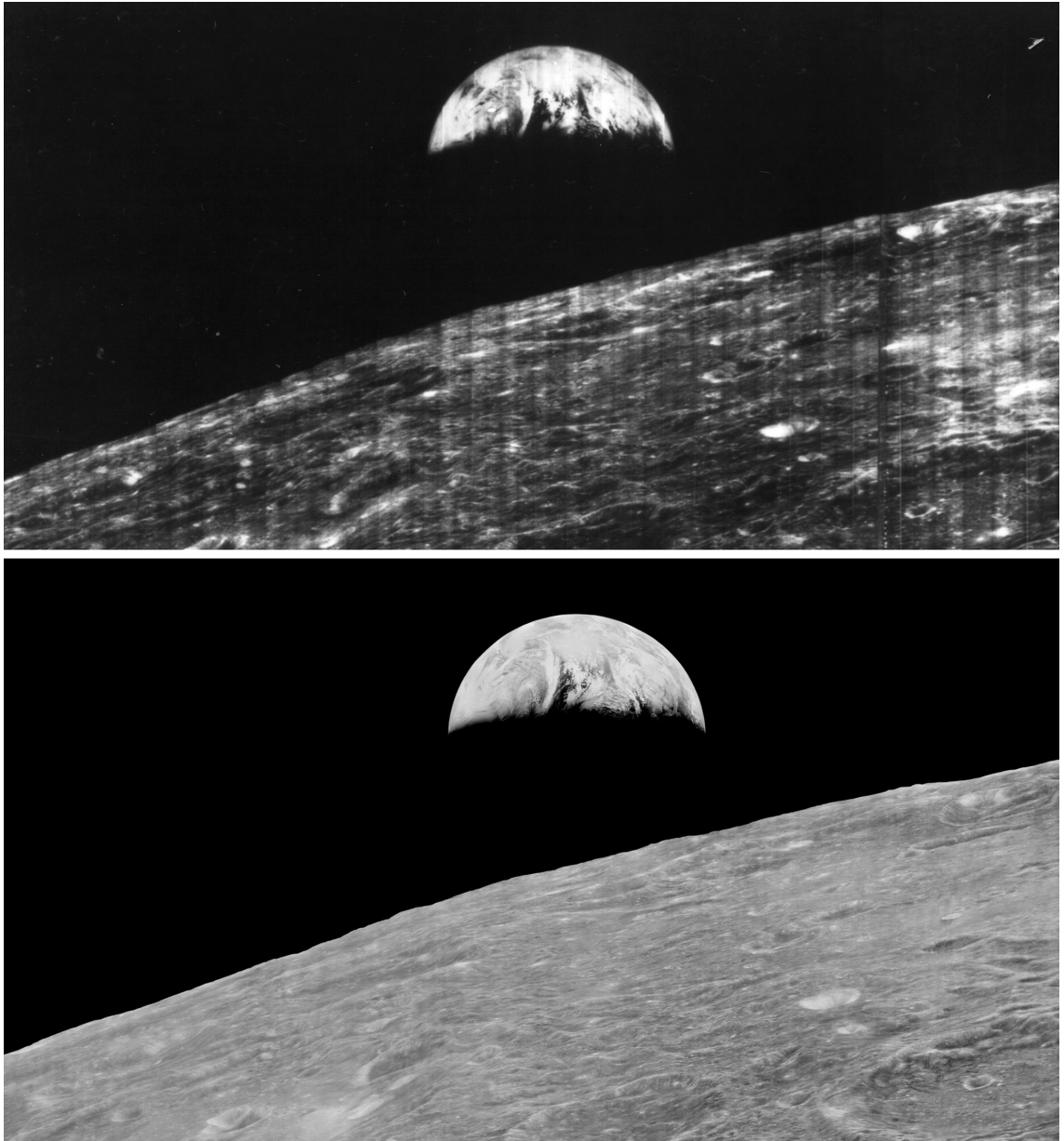
2.2.035 Reconstituted image from Lunar Orbiter I of the Earth, the first image of the Earth from the Moon (NASA / Lunar Orbiter Image Recovery Project, 2014)



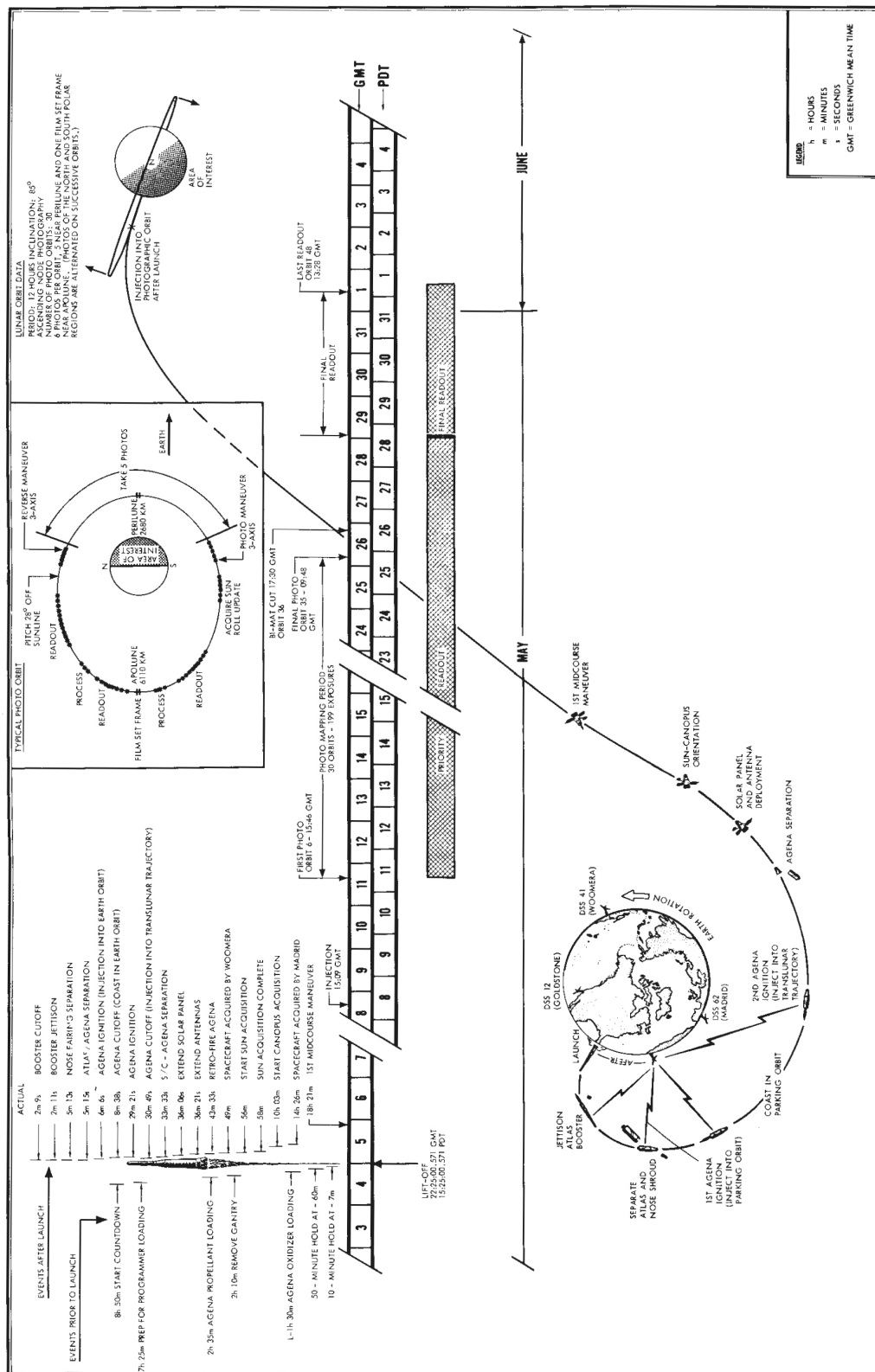
2.2.051 "Earthrise" photograph from Apollo 8 (NASA, 1968)



2.2.057 Comparison of the original Lunar Orbiter image (top) as received at Island Lagoon and the reconstituted image (NASA / Lunar Orbiter Image Recovery Project, 2014)

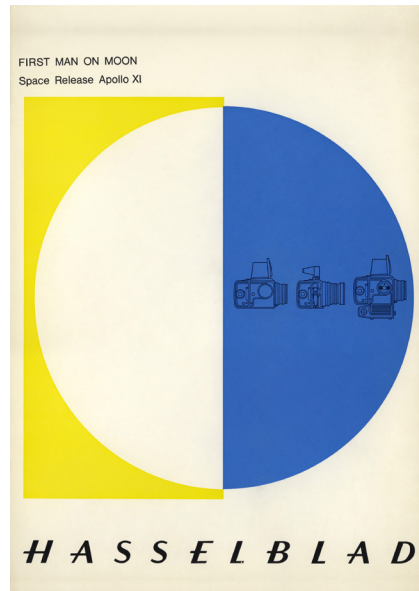


2.2.060 Schedule of the Lunar Orbiter mission (NASA, 1968)



2.2.061 Press release from Hasselblad following the Apollo 11 mission to the Moon, 1969

2.2.065



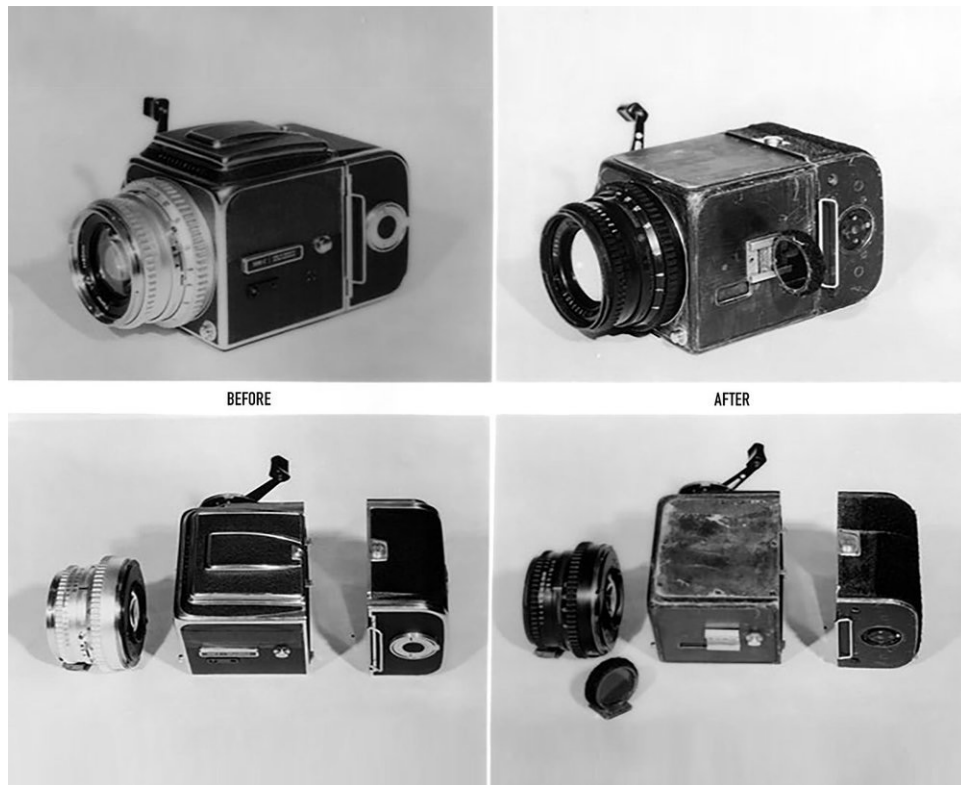
2:
"The eagle has landed" This was the laconic message sent by Neil Armstrong to Houston when the moon landing was a fact. In the picture, astronaut Buzz Aldrin moves towards the lunar lander. As with other pictures, the Hasselblad's measurement cross is clearly visible in the picture.
Camera Hasselblad Electric Data Camera with Hasselblad Plate, Zeiss Biogon T, 6/60 mm, Synchro-Compur shutter.

HASSELBLAD
VICTOR HASSELBLAD, ARTIST
HOLMSTADT, SWEDEN

2.2.074 Astronauts learning to use the Hasselblad (Hasselblad, 1969)



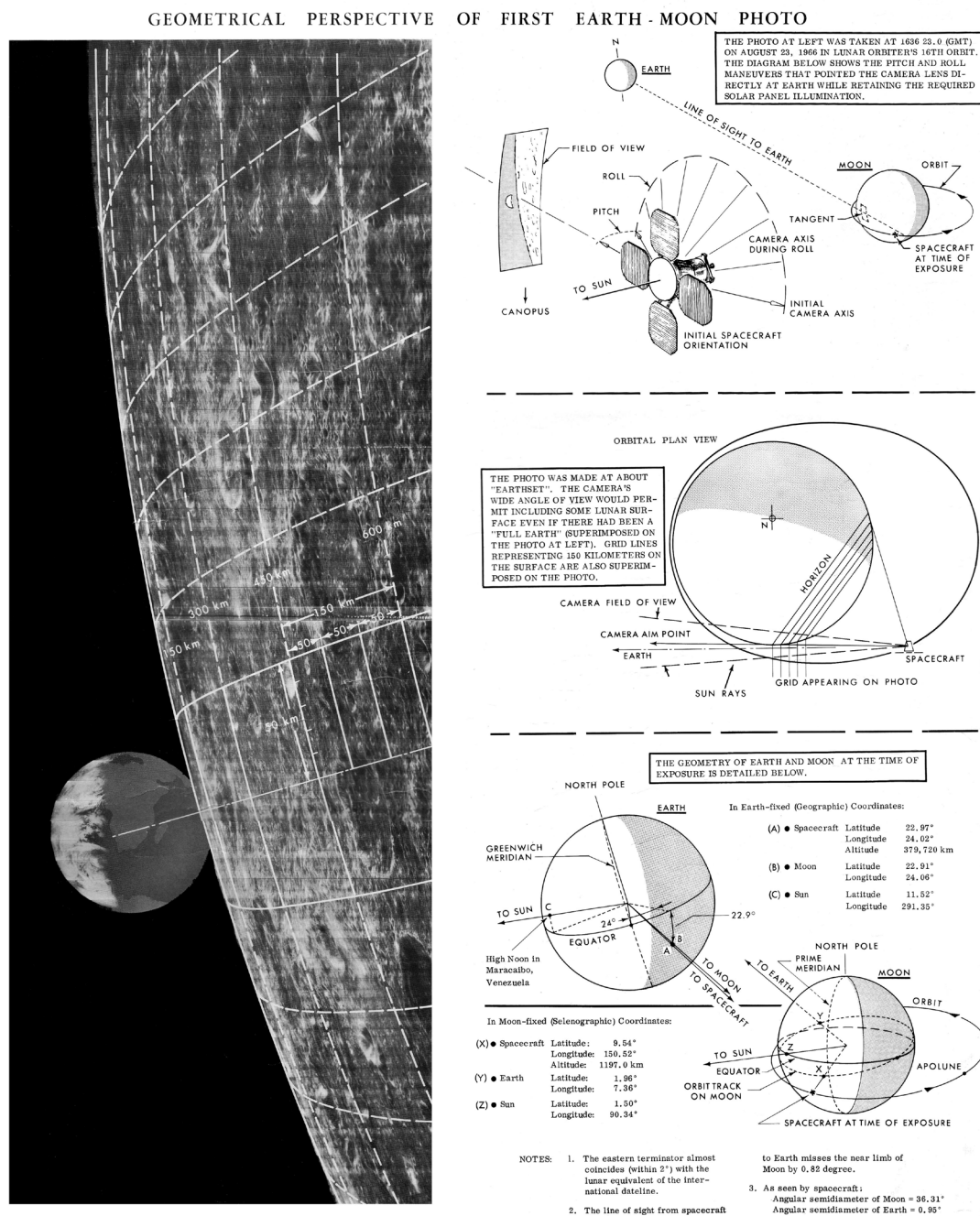
2.2.075 Comparison of original Hasselblad (left column) and NASA modified camera (Hasselblad, 1969)



2.2.076 Camera and processing equipment from Lunar Orbiter I-V (NASA, 1968)



2.2.086 Technical description of what is seen in the first "Earth-Moon" photo



2.2.087 Diagram of the movement of the film through the camera and processing apparatus on the Lunar Orbiter

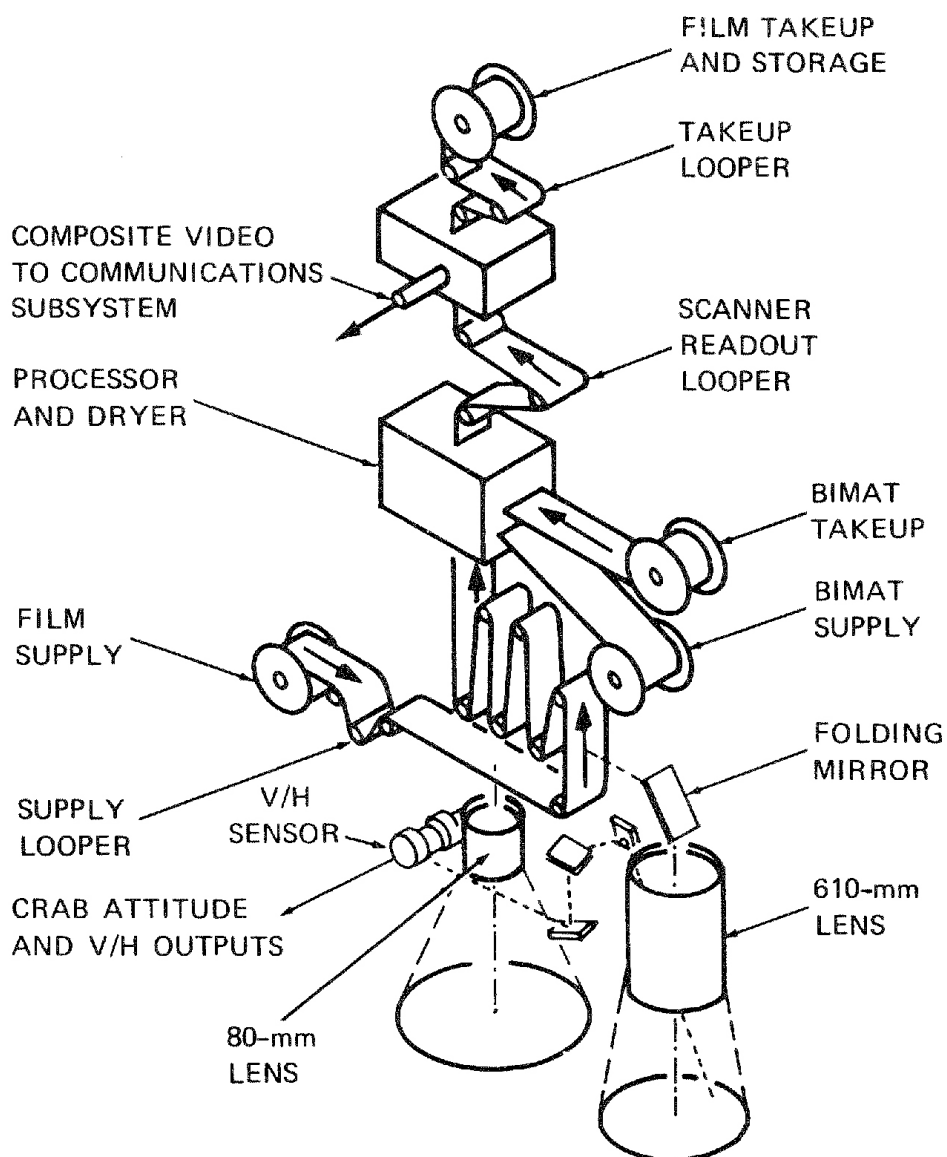
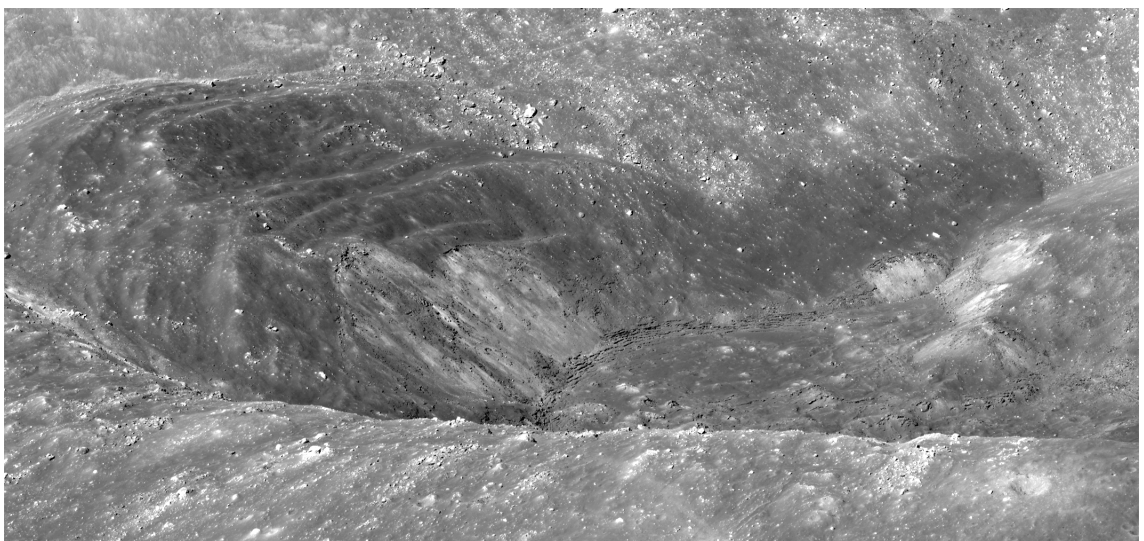


Figure 4—Photographic Subsystem Schematic

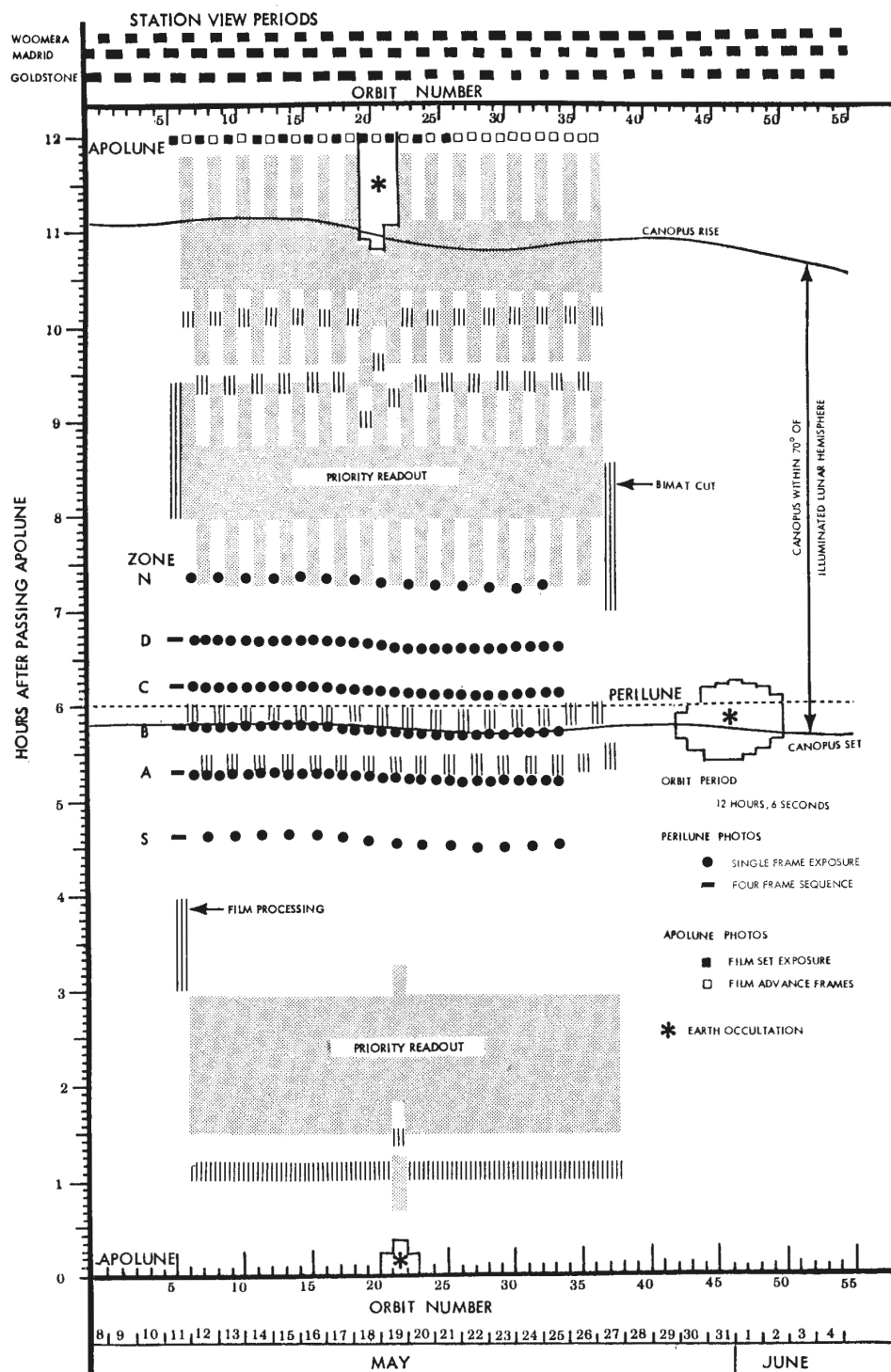
2.2.089 Example of stereo photographs taken by Lunar Orbiter that assisted scientists in determining the depth of craters



2.2.090 Reconstituted stereo photographs Lunar Orbiter Image Recovery Project



2.2.091 Diagram explaining which Earth Station would receive data from the Lunar Orbiters. The three stations are listed at the top of the diagram: Woomera, Madrid, and Goldstone.

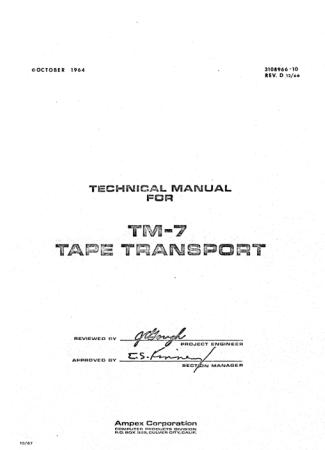


2.2.092 Abandoned McDonald's restaurant used by the Lunar Orbiter Image Recovery Project, 2014

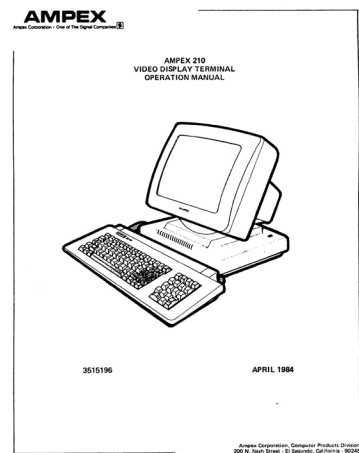


2.2.093 Covers of various AMPEX documentation in the collection of the author (1966)

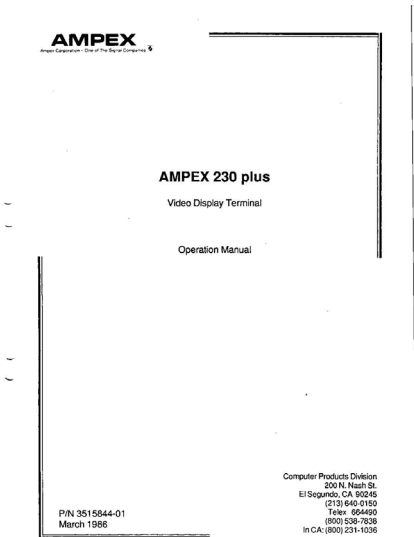
2.2.096



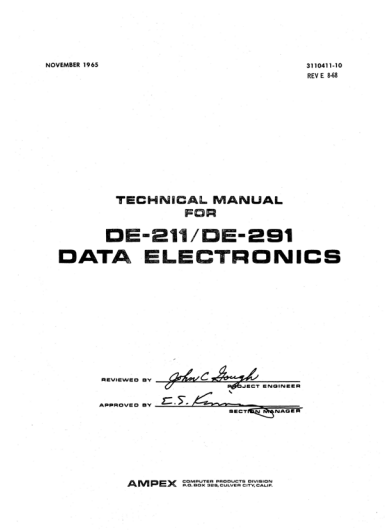
2.2.097



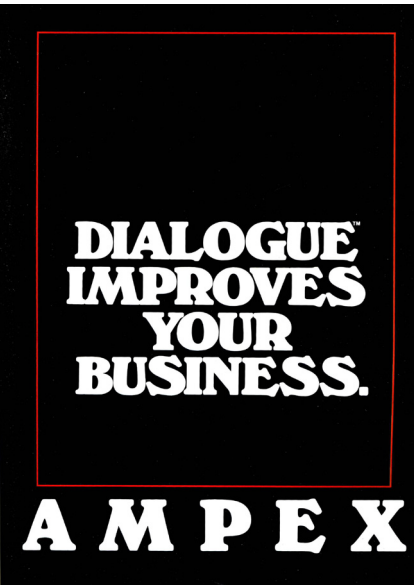
2.2.098



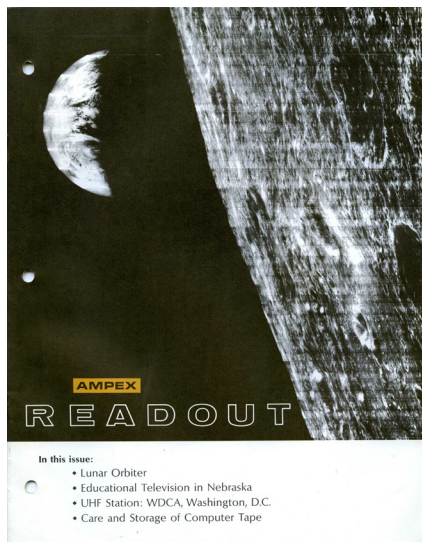
2.2.099



2.2.100



2.2.106



2.2.127



2.2.129



2.2.143 Abandoned McDonald's restaurant used by the Lunar Orbiter Image Recovery Project, 2014



2.2.144 Abandoned McDonald's restaurant used by the Lunar Orbiter Image Recovery Project, 2014



2.2.147 35mm cinema camera used to reconstruct the images received from the Lunar Orbiters on the ground in the Earth Stations



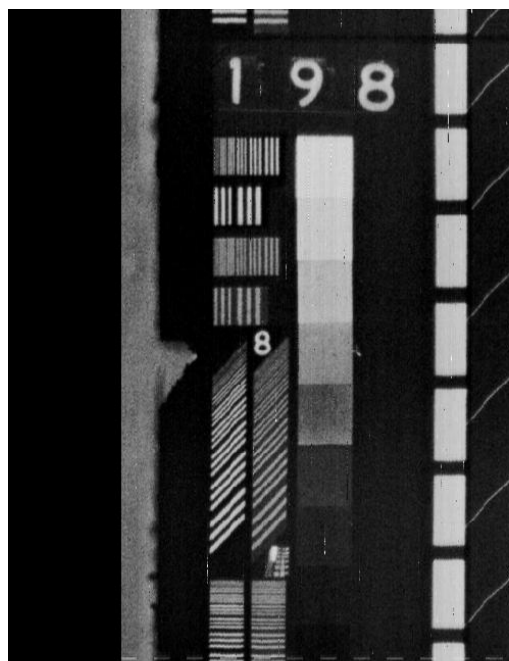
2.2.148 35mm cinema camera used to reconstruct the images received from the Lunar Orbiters on the ground in the Earth Stations



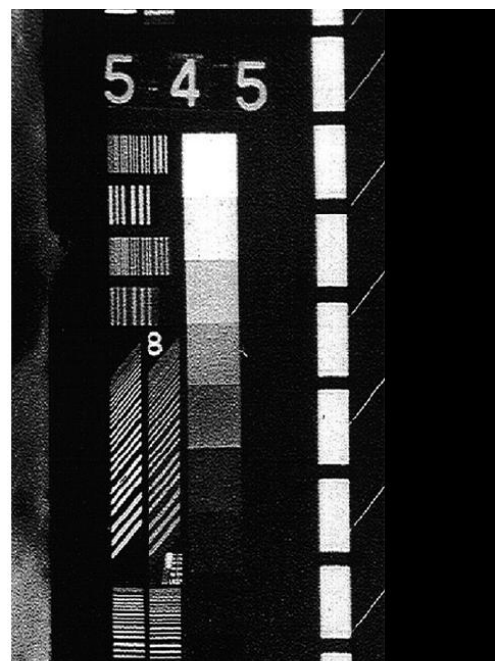
2.2.149 Presentation the first Earth-Moon photograph (NASA, 1966)



2.2.150 Comparison of the images reconstituted by LOIRP (left) and NASA (right)



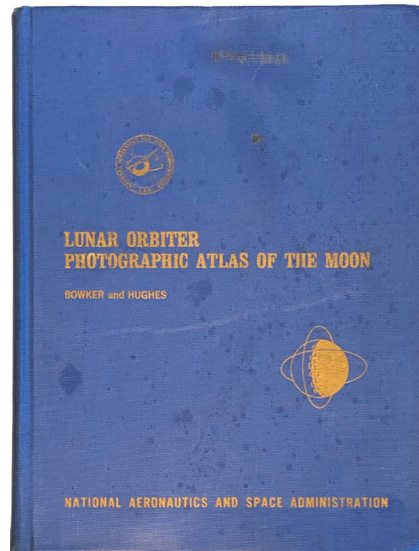
CALIBRATION DATA FROM
RETRIEVED IMAGE (RAW)
LOIRP OCTOBER 2008



CALIBRATION DATA FROM
USGS HIGH RES SCAN OF
ORIGINAL PHOTOS

2.2.156 Lunar Orbiter Photographic Atlas of the Moon, 1971
(collection of the author)

2.2.159



NASA SP-206

**LUNAR ORBITER
PHOTOGRAPHIC ATLAS OF THE MOON**

David E. Bowker and J. Kenneth Hughes
Langley Research Center
Hampton, Virginia

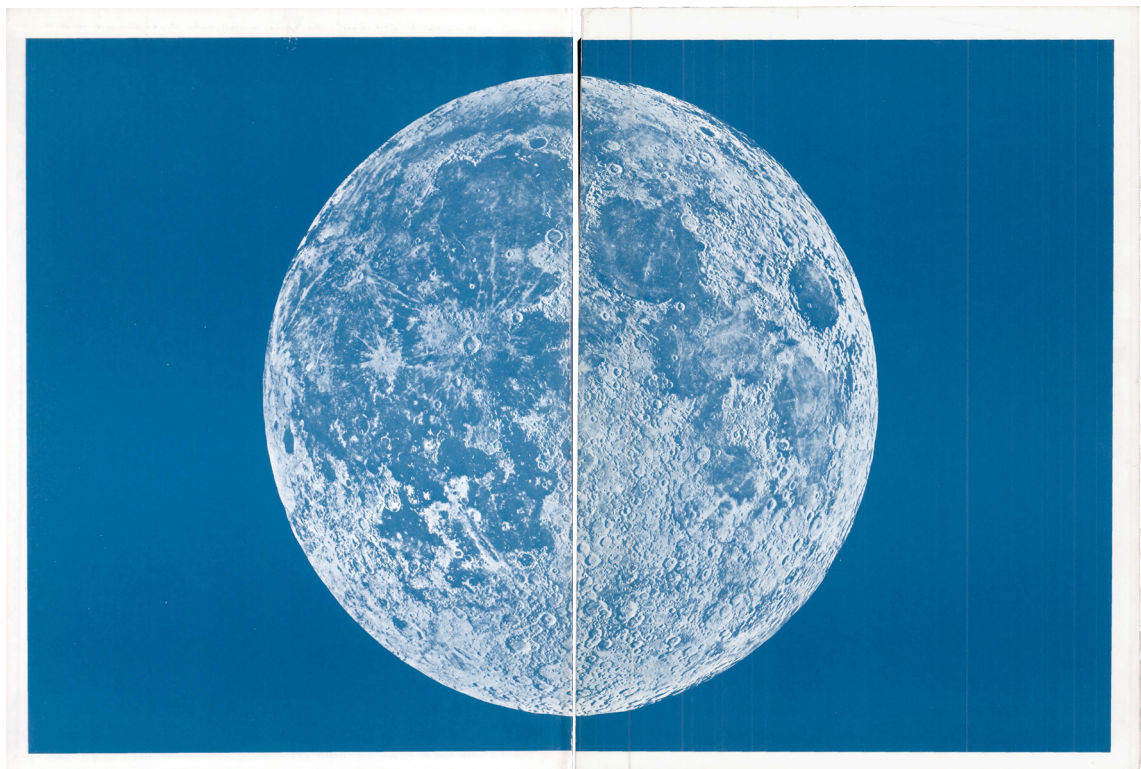
Prepared by Langley Research Center



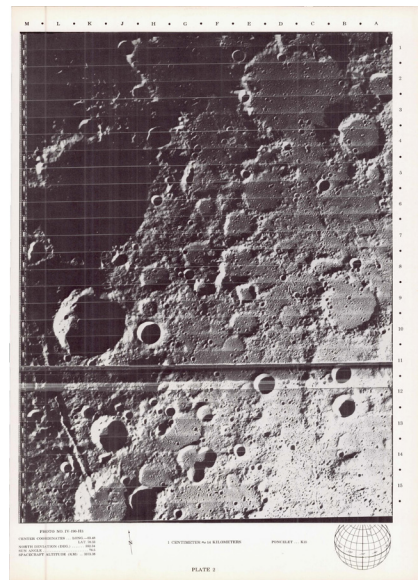
Scientific and Technical Information Office
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Washington, D.C.

2.2.157

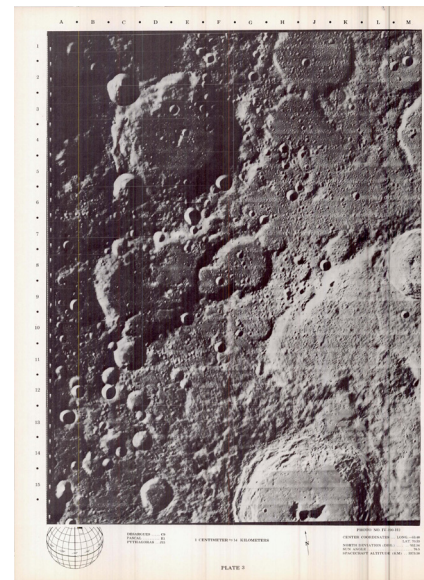
2.2.158



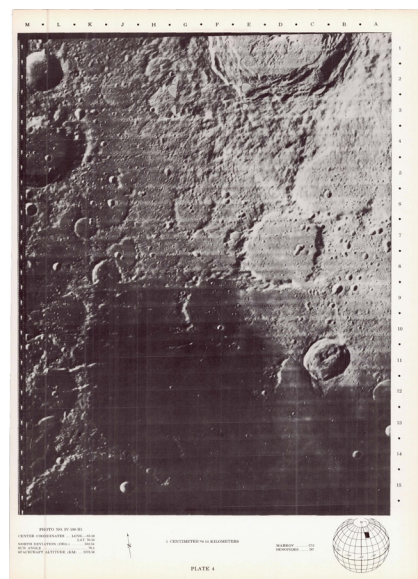
2.2.180



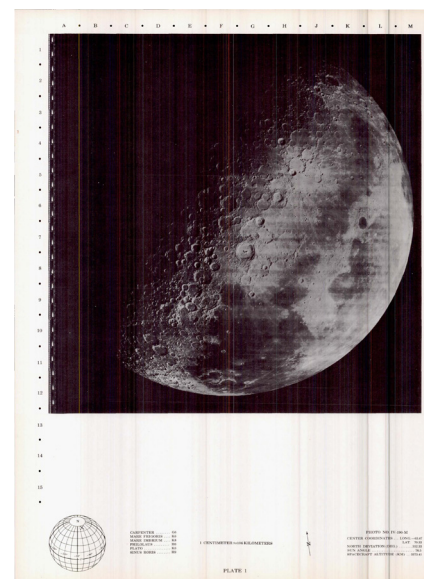
2.2.181



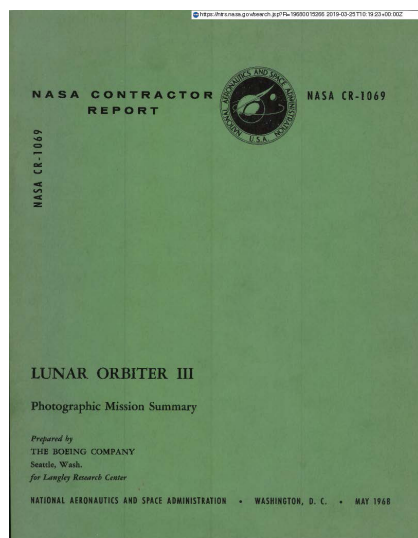
2.2.182



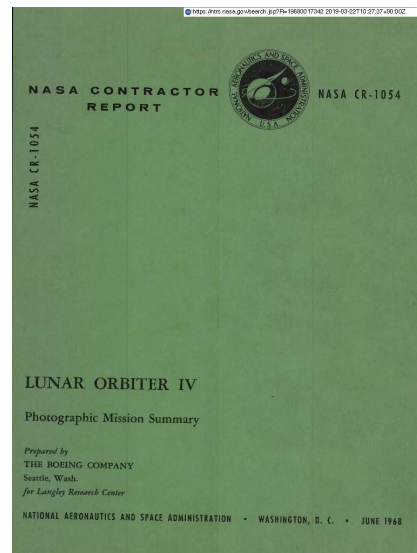
2.2.179



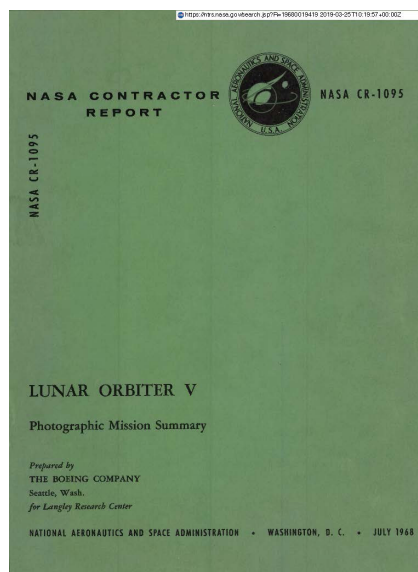
2.2.185 Cover of Lunar Orbiter III Photographic Mission Summary (NASA, 1968)



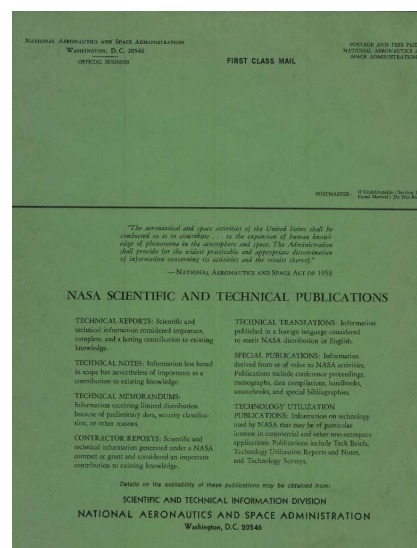
2.2.183 Cover of Lunar Orbiter IV Photographic Mission Summary (NASA, 1968)



2.2.186 Cover of Lunar Orbiter V Photographic Mission Summary (NASA, 1968)



2.2.184



2.2.187 DSS-41 at Island Lagoon, 1961



2.2.188



2.2.189 1964 photograph of Island Lagoon facilities, including locations of ket elements

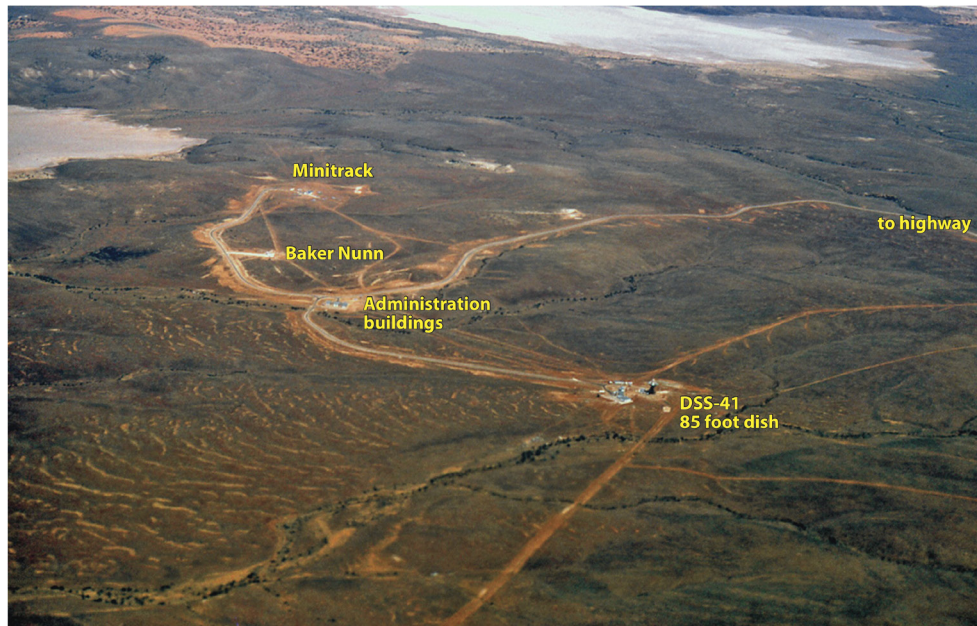


Photo by Bill Schoene, Island Lagoon Minitrack, c. 1964. Photo restoration Colin Mackellar, July 2012.

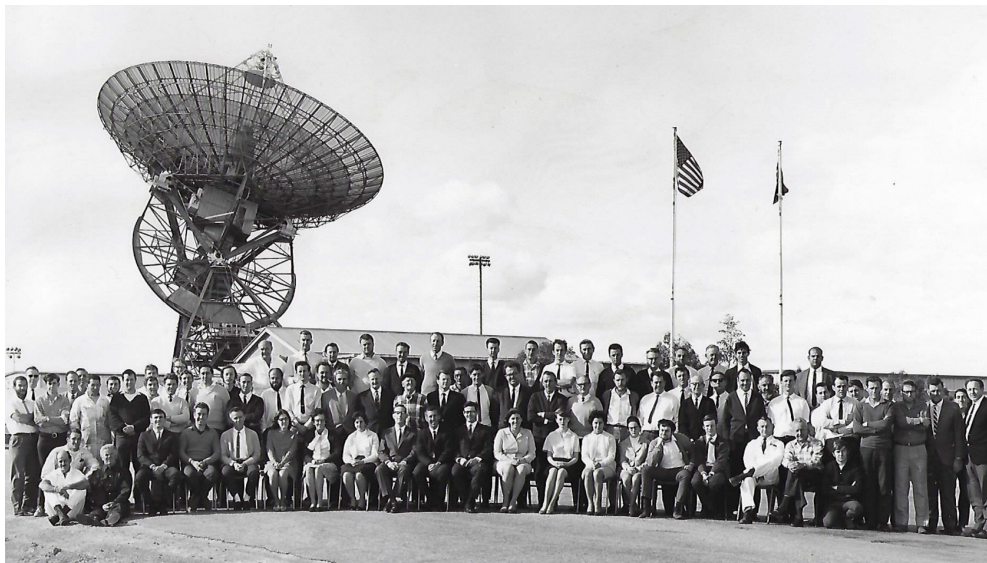
2.2.190 Typical architecture at Island Lagoon, 1963



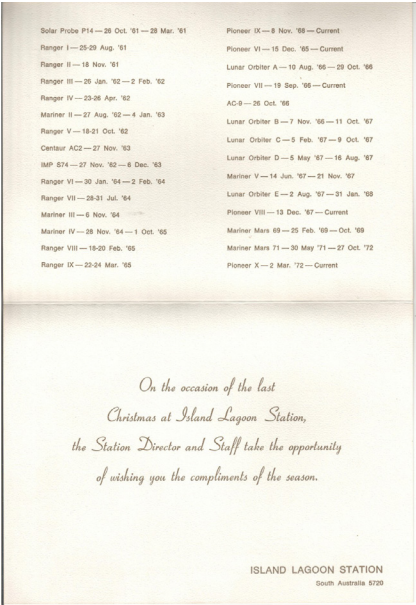
2.2.191 Panoramic photograph of Island Lagoon, 1964



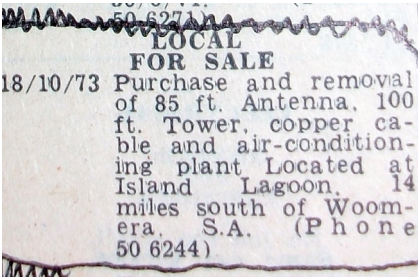
2.2.194 Undated staff photograph at Island Lagoon



2.2.199



2.2.196



2.2.197



2.2.198



Various images depicting life at Island Lagoon and the sentiments regarding its closure (Woomera Visitors Centre)

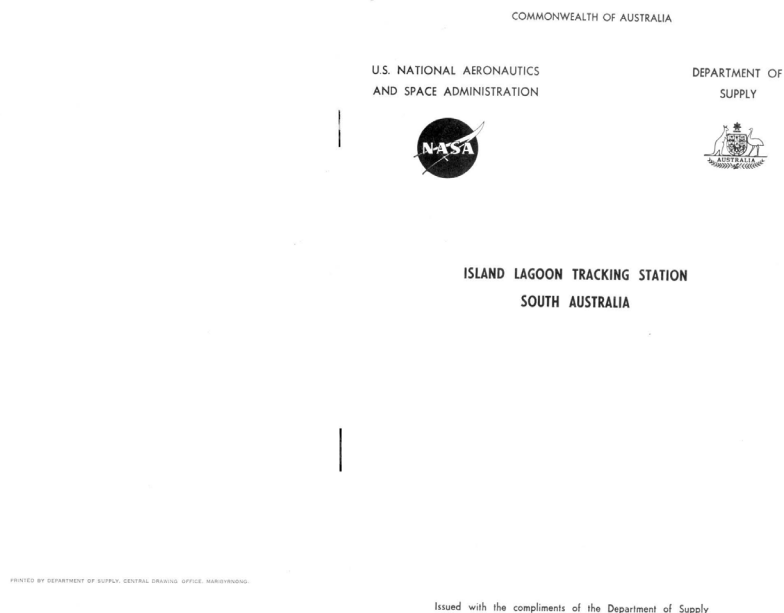
2.2.200 Control centre at Island Lagoon with the structure of the antennae visible through the window



2.2.201



2.2.209 Various pages from the Island Lagoon handbook (NASA)

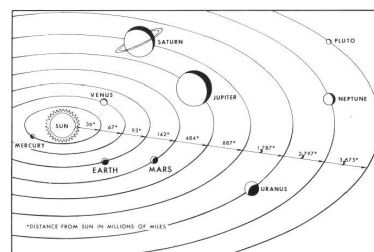


2.2.213

- Mariner II:** This spacecraft was tracked between August 1962 and January 1963. In this period it flew past Venus, providing the first reliable information on the clouds obscuring the planet's surface and extensive data on the interplanetary environment.
- Mariner IV:** This deep-space probe flew by Mars (July, 1965) at a distance of about 6,000 miles and recorded 20 TV pictures of the Martian surface for the first time. Soon after the probe passed Mars, the pictures were transmitted to the DSN stations.
- Mariner IV took eight months on the Martian journey and travelled about 325 million miles in that time. At the time of fly-by, Mars was about 140 million miles from the earth.
- Mariner IV will remain in solar orbit almost indefinitely and will periodically come within range of the 85-ft.-antenna stations. It was reactivated for the first time in October, 1967, and sent TV pictures to Island Lagoon and other DSN stations.
- Mariner V:** Launched in June, 1967, this 540-lb spacecraft travelled 212 million miles in four months to pass Venus within 2,500 miles.
- The capsule's task was to obtain information on the origin and nature of Venus and its environment, including data on atmosphere density, temperature and magnetic fields.
- Mariner V subsequently was to continue in an orbit to within 54 million miles of the sun - the closest to the sun of any U.S. spacecraft.
- Pioneer:** These spacecraft are in a solar orbit to investigate - among other things - solar flares and solar winds. This knowledge is vital to manned space flights because of the possible hazards to man from these phenomena.
- The DSN stations are involved in long-term tracking of, and communications with, Pioneer missions.
- Lunar Orbiter I-V:** These successful missions (August 1966 - October 1967) supported the Apollo lunar landing program by obtaining photographs of the lunar surface to enable the selection of future landing sites.

The spacecraft - flying photographic laboratories - were placed in a pre-determined orbit around the moon. They were equipped with control systems to adjust the height above the surface, compensate the photographs for spacecraft movement, and transmit to earth the processed photographs.

Precision tracking of the spacecraft provided data on the shape and gravitational field of the moon; instruments on the vehicle provided data on meteoroids and radiation near the moon.

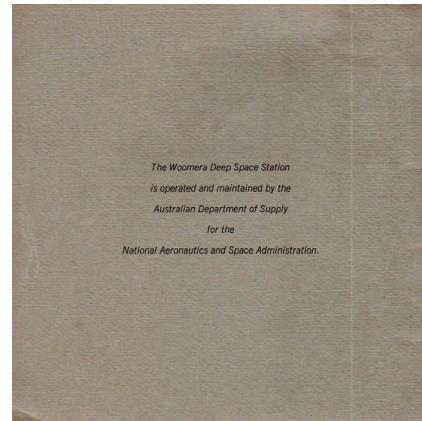


SOLAR SYSTEM

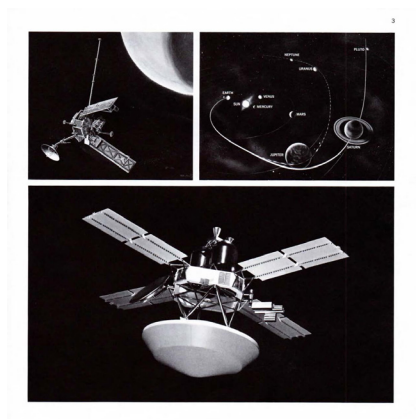
2.2.215



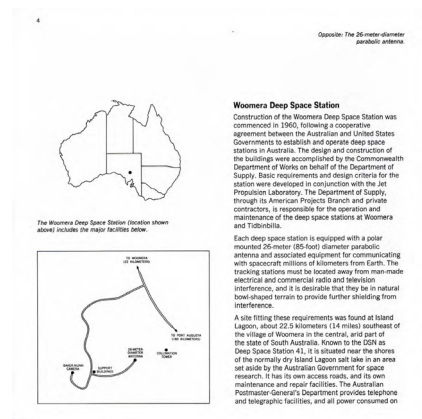
2.2.216



2.2.219



2.2.220



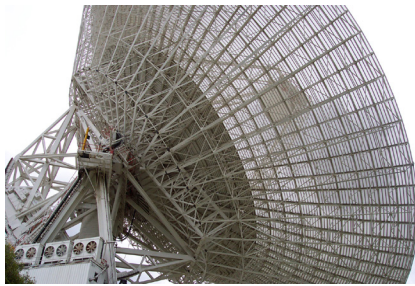
2.2.239 Similar facility outside Madrid



2.2.240 Canberra



2.2.241 Canberra



2.2.242 Parkes



2.2.243 Canberra



2.2.244 Canberra



2.2.245 Canberra



2.2.246 Carnarvon



2.2.247 Carnarvon



2.2.248 Carnarvon



2.2.249 Cooby Creek



2.2.250 Cooby Creek



2.2.251 Cooby Creek



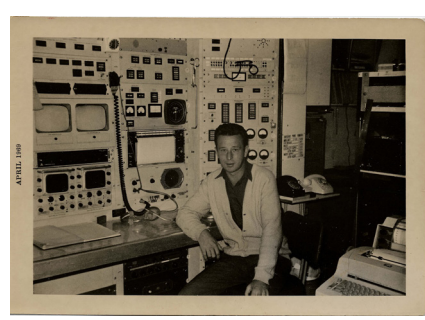
2.2.252 Cooby Creek



2.2.253 Cooby Creek



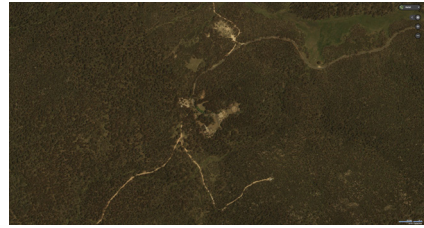
2.2.254 Cooby Creek



2.2.255 Cooby Creek



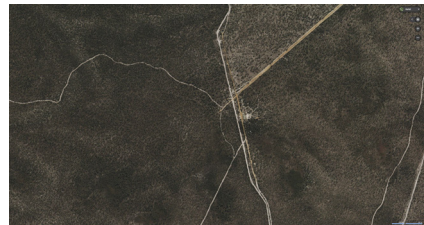
2.2.256 Honeysuckle



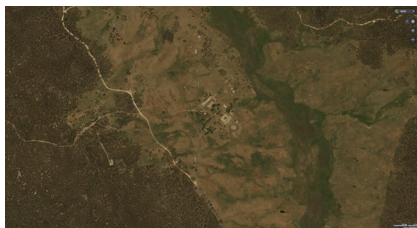
2.2.257 Menwith Hill, UK



2.2.258 Muchea



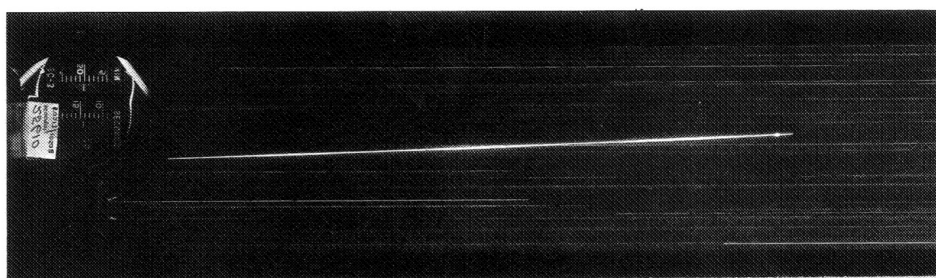
2.2.259 Orroral



2.2.260 Photograph of a television screen broadcasting the Apollo 11 mission, 1969



2.2.261 Typical image produced with the Baker-Nunn telescope



THIS UNUSUAL photograph of the Pegasus satellite was taken by a Baker-Nunn tracking camera at the Smithsonian Institution's Astrophysical Observing Station, Woomera, Australia. The photo was made on Feb. 17, 1965; the aperture was $f/1$ and the exposure time was about 60 seconds. The satellite image shows variation in magnitude corresponding to the 20-second period of rotation of the satellite. The bright flash at the right-hand end of the track is probably due to reflection from the Pegasus "wings." On this pass, Pegasus was directly overhead about 445 miles above the earth, and passing through the constellation Canis Major when photographed.

The camera has a 3-axis mount which enables it to be pointed in any direction. Basically, it takes a photograph of the satellite against a known star background. The stars appear as tiny dots. As the satellite moves across the star background it

creates a "trace" on the photograph. The angles between the stars and the satellite can be measured to fix the position of the satellite at a particular time.

Baker-Nunn stations are located at: Maui, Hawaii; Organ Pass, New

Mexico; Jupiter, Florida; Curacao, West Indies; Aeroquipa, Peru; Villa Delores, Argentina; San Fernando, Spain; Olifantsfontein, South Africa; Shiraz, Iran; Naini Tal, India; Tokyo, Japan; and Woomera, Australia.

2.2.262 Baker-Nunn housing in Island Lagoon



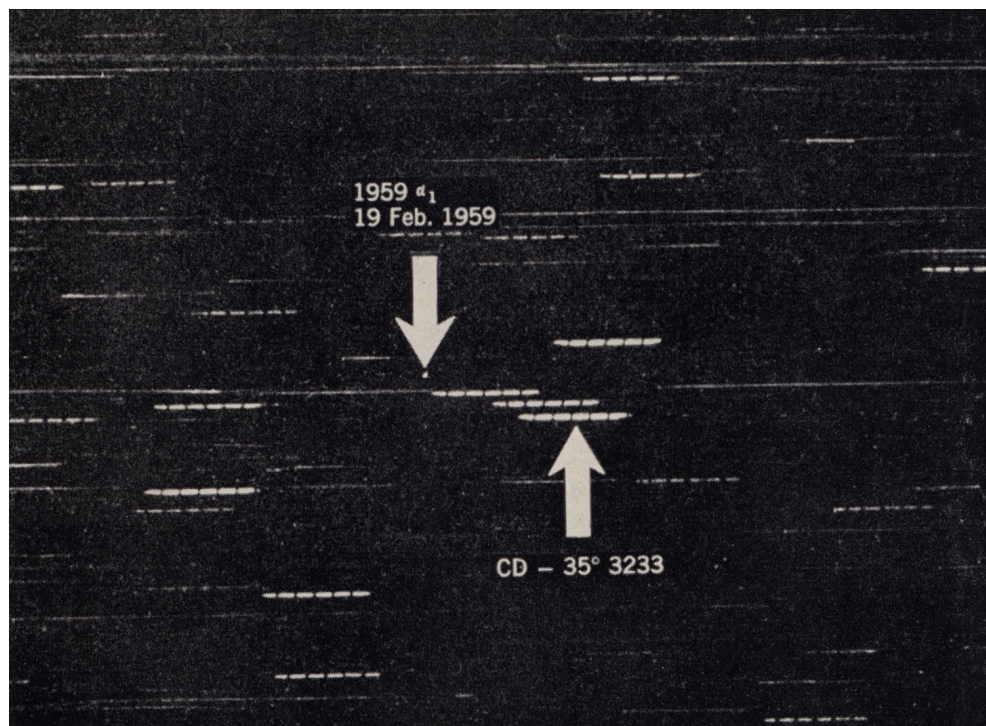
2.2.263



2.2.268



2.2.269



2.2.273 Mini-track at Island Lagoon



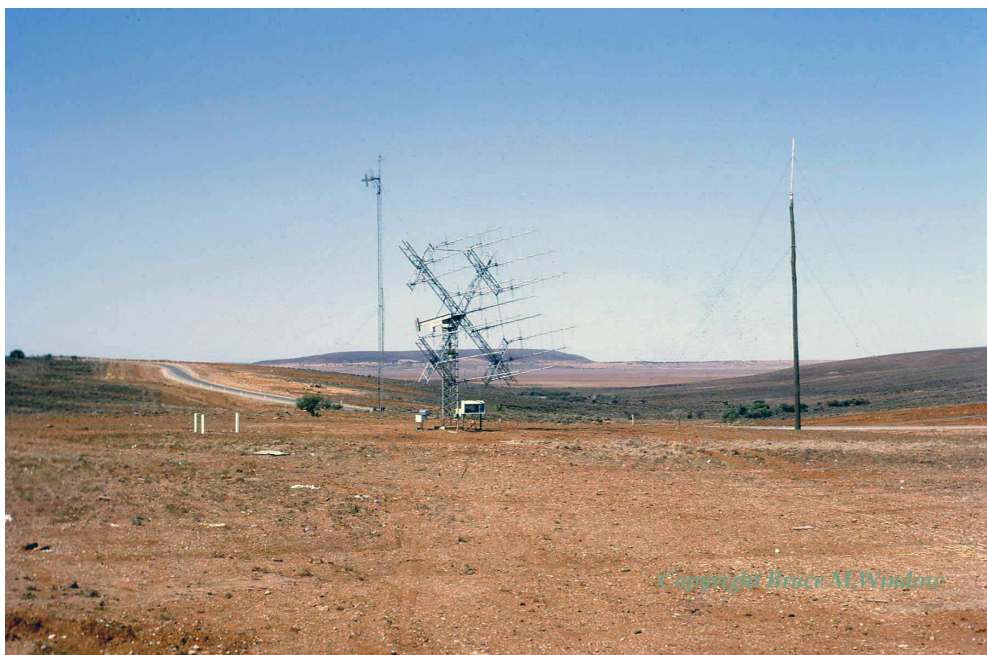
2.2.274



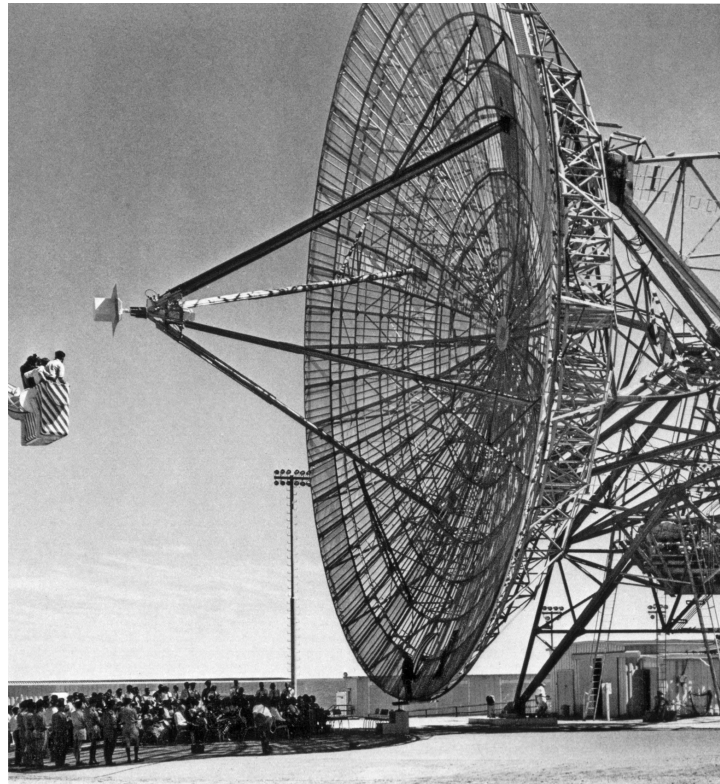
2.2.275 Mini-track at Island Lagoon



2.2.276 Mini-track at Island Lagoon



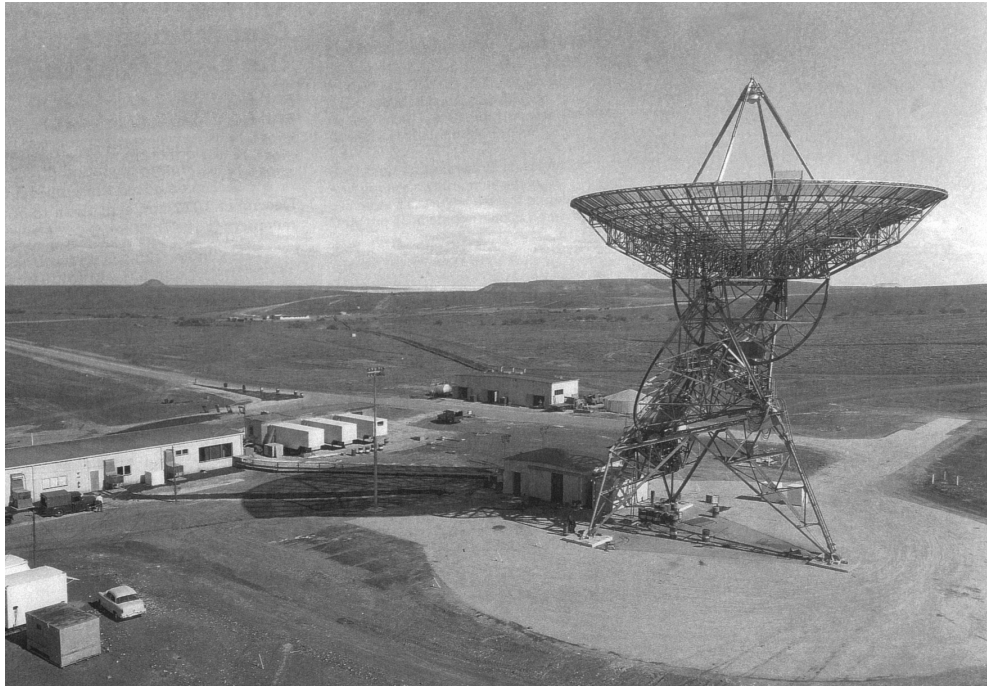
2.2.277 Opening ceremonies of DSS-41 at Island Lagoon, 10 February 1961



2.2.278 DSS-41 at Island Lagoon, ca. 1966



2.2.279 DSS-41 at Island Lagoon, ca. 1961



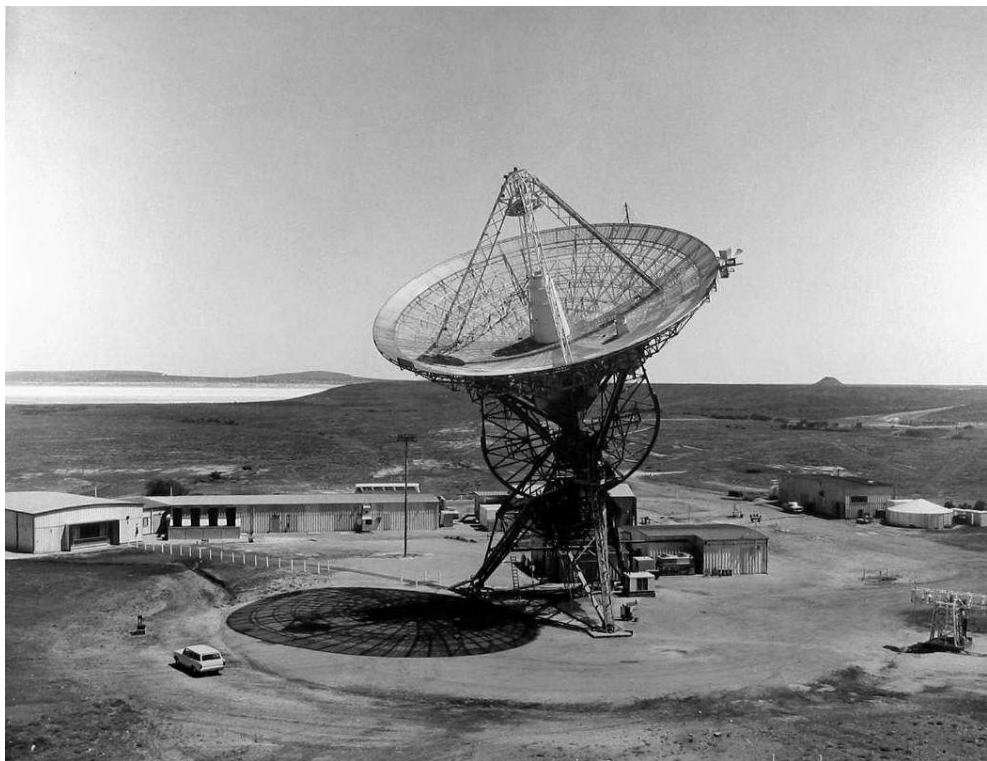
2.2.280 DSS-41 at Island Lagoon, ca. 1963



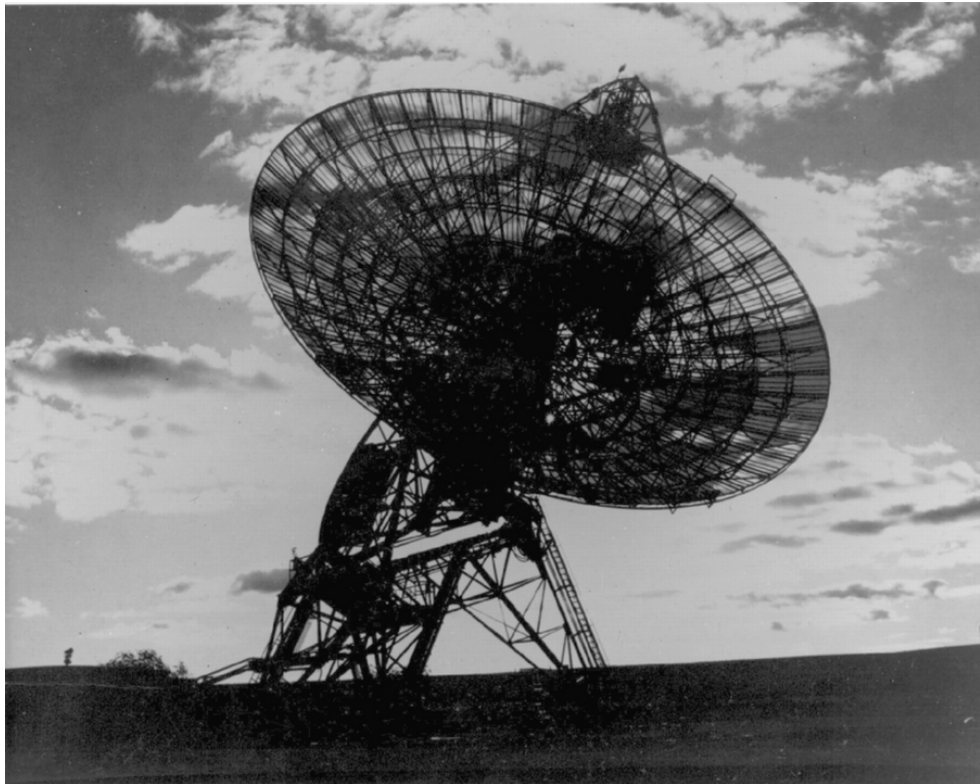
2.2.281 DSS-41 at Island Lagoon



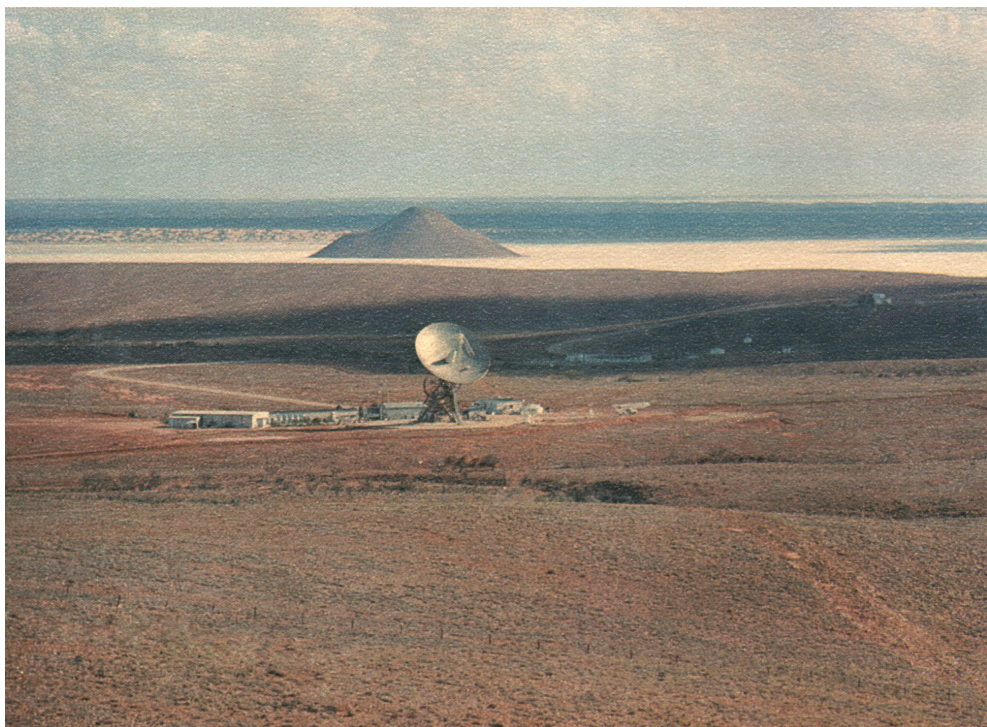
2.2.282 DSS-41 at Island Lagoon, ca. 1964



2.2.283 DSS-41 at Island Lagoon



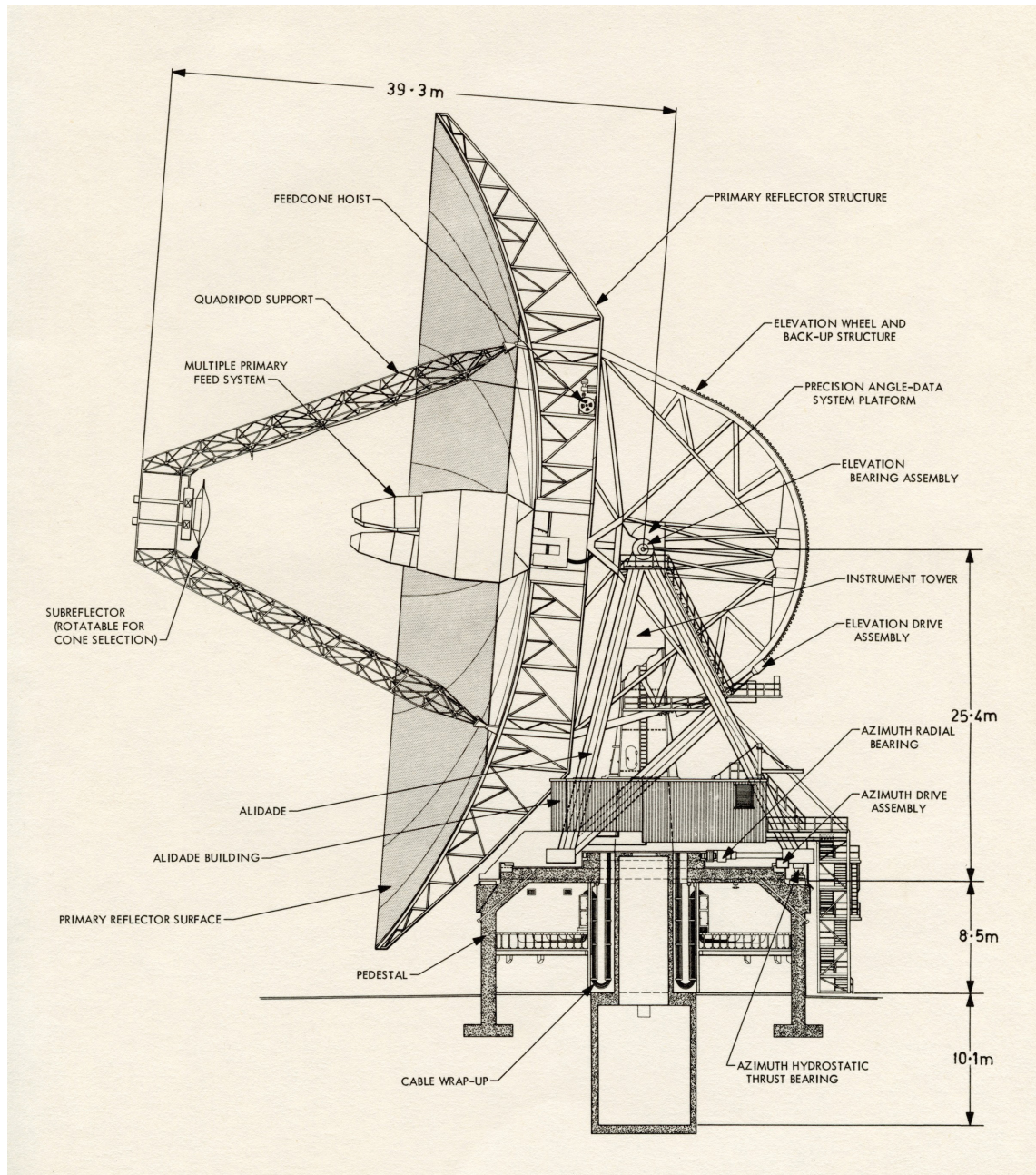
2.2.284 DSS-41 at Island Lagoon and Lake Hart



2.2.286 DSS-41 at Island Lagoon



2.2.287 Section drawing of DSS-41



2.2.288 American soldiers at Joint Defence Facility Nurrungar



2.2.289 Joint Defence Facility Nurrungar



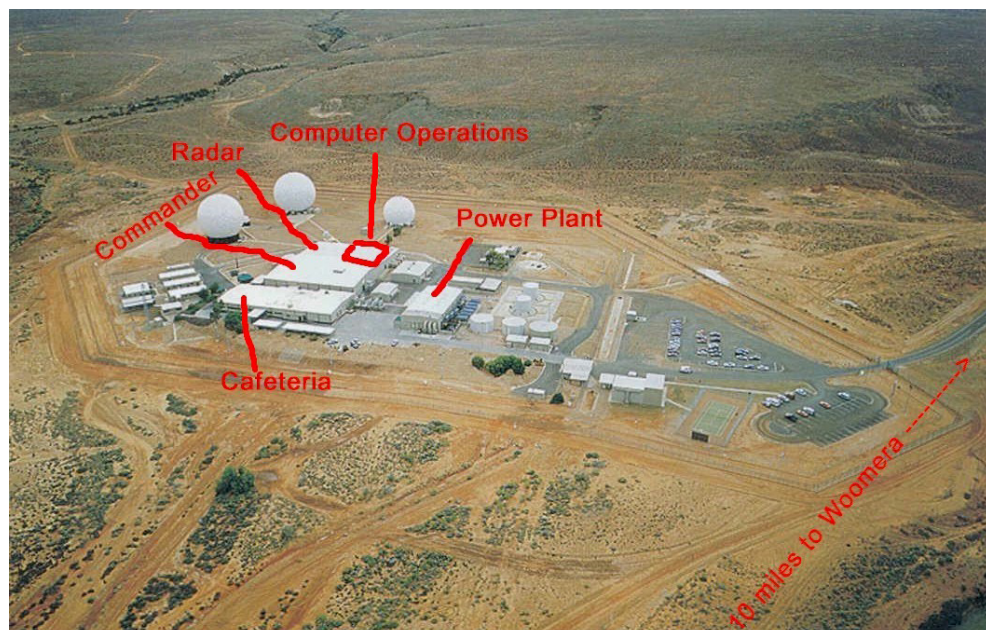
2.2.290 Joint Defence Facility Nurrungar



2.2.293 Joint Defence Facility Nurrungar patch (collection of the author)



2.2.295 Joint Defence Facility Nurrungar



2.2.297 Radome at Joint Defence Facility Nurrungar



2.2.298



2.2.299



2.2.300



2.2.301



2.2.302



2.2.303 Louise K Wilson, *Nurrungar (listening station)*, 2007 (used with permission by the artist)



2.2.304 Louise K Wilson, *Nurrungar (listening station)*, 2007 (used with permission by the artist)



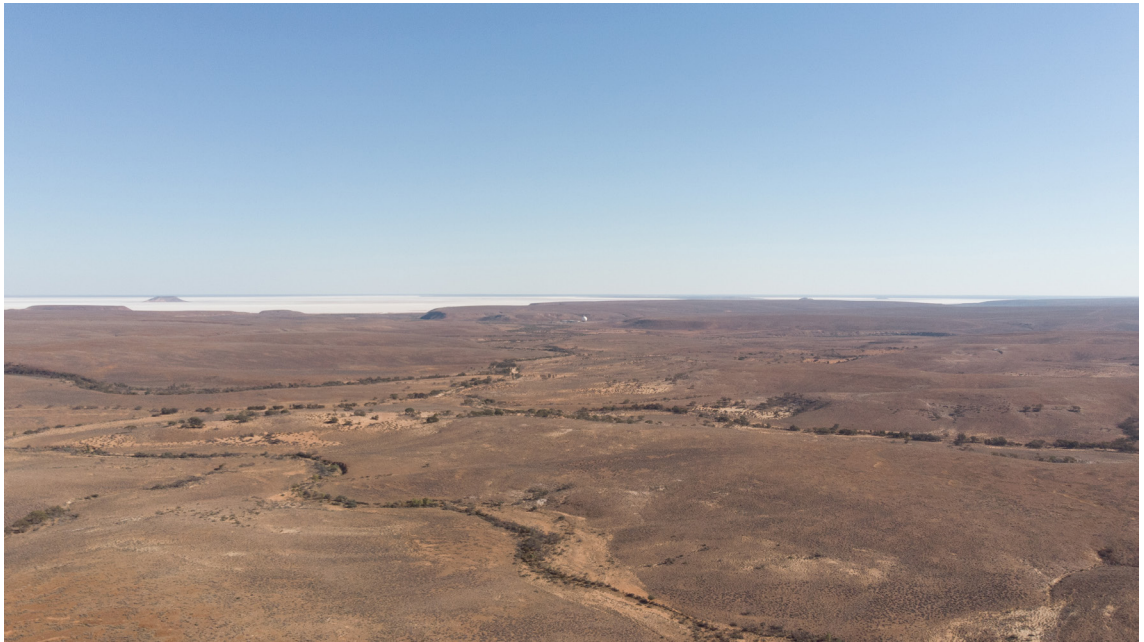
2.2.306 Joint Defence Facility Pine Gap



FW 2.19 Burns, David. *Pine Gap I*. 2018.



FW 2.20 Burns, David. *Nurrungar I.* 2018.



PART 2.0: "WAYS OF LOOKING AT THE WORLD"

2.3: THE POLITICS OF INVISIBILITY

2.3.002 Yami Lester, 2006 (Jessie Boylan)



2.3.001 Yami Lester speaks at Uluru Handback Ceremony, 1985, by Juno Gemes (National Portrait Gallery, Canberra)



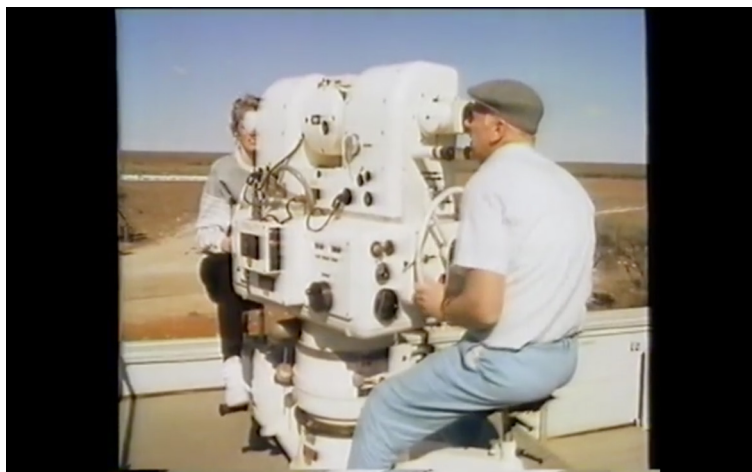
2.3.003 Warning sign at Island Lagoon



2.3.004 Still from *Woomera The Silent Partners* (1988)



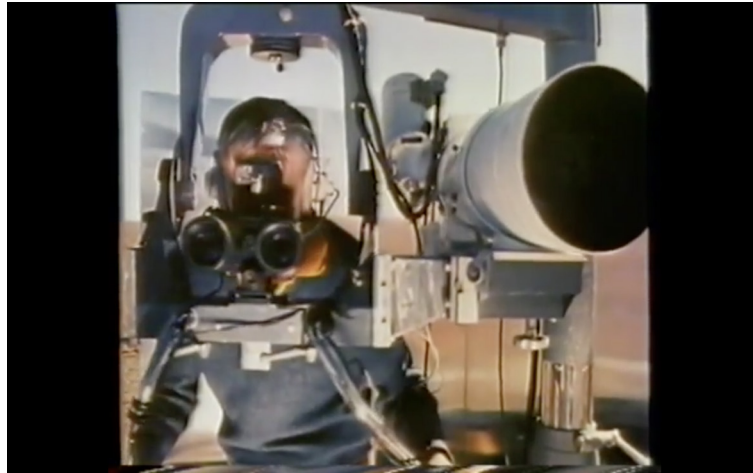
2.3.005 Still from *Woomera The Silent Partners* (1988)



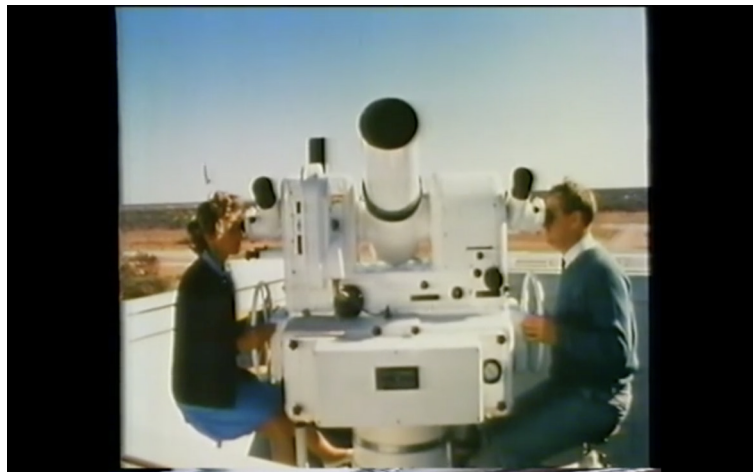
2.3.006 Still from *Woomera The Silent Partners* (1988)



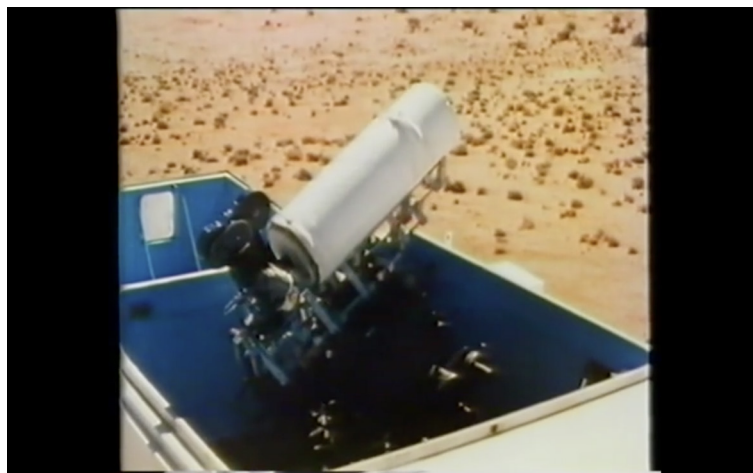
2.3.007 Still from *Woomera The Silent Partners* (1988)



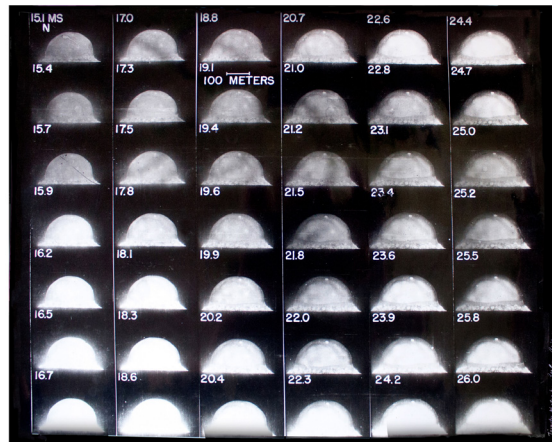
2.3.008 Operating a kinetheodolite (still from *Woomera The Silent Partners*, 1988)



2.3.009 Still from *Woomera The Silent Partners* (1988)



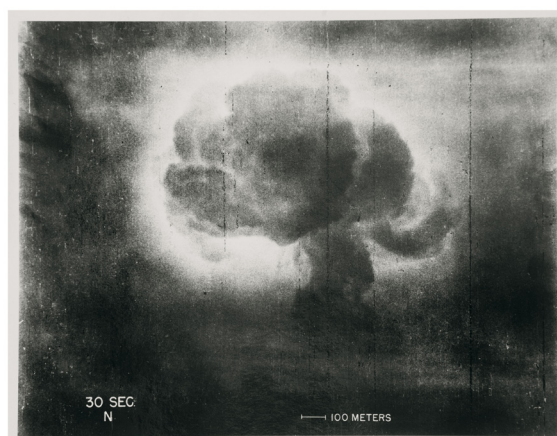
2.3.010 Photograph of the Trinity nuclear test, 1945 (Berlyn Brixner, Atomic Photographers Guild website)



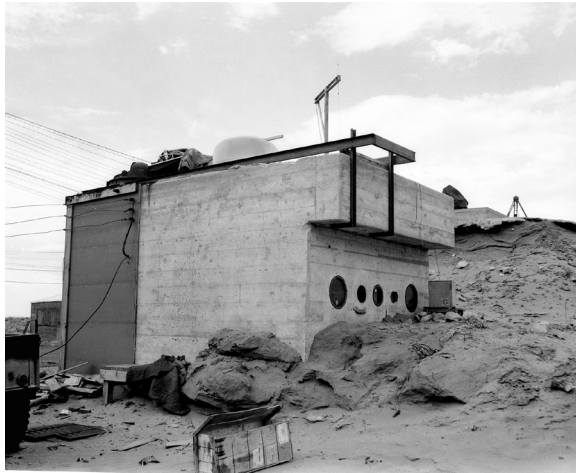
2.3.011 Photograph of a Trinity nuclear test photography bunker, 1945 (Berlyn Brixner)



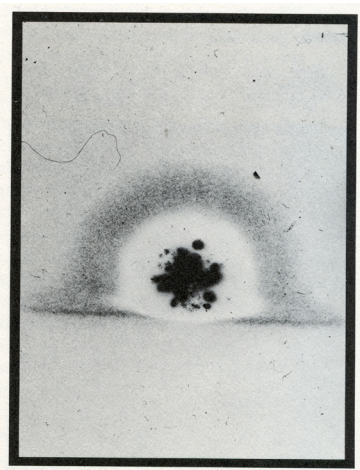
2.3.012 Photograph of the Trinity nuclear test, 1945 (Berlyn Brixner, Atomic Photographers Guild website)



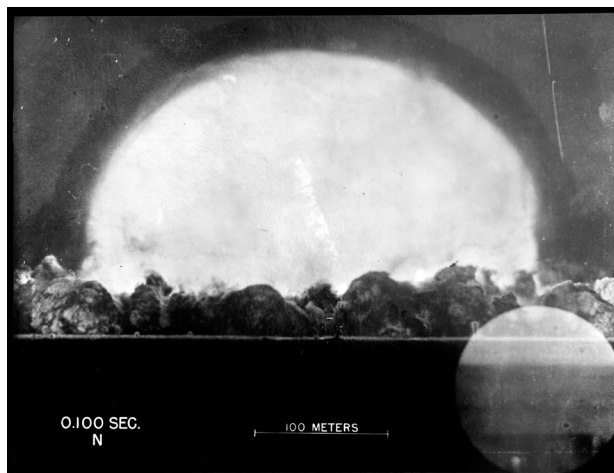
2.3.013 Photograph of a Trinity nuclear test photography bunker, 1945 (Berlyn Brixner)



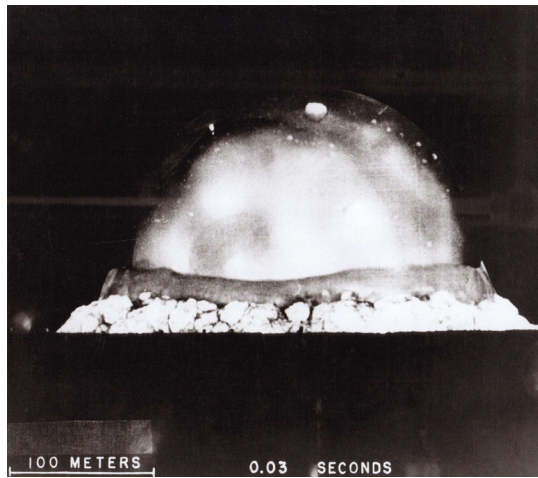
2.3.014 Photograph of the Trinity nuclear test, 1945 (Berlyn Brixner, Atomic Photographers Guild website)



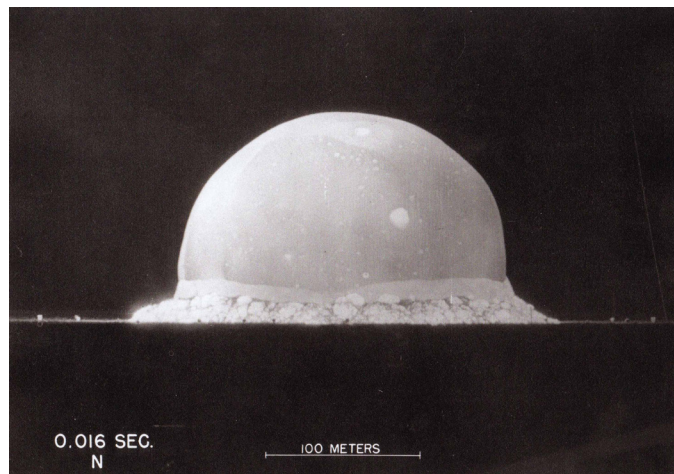
2.3.015 Photograph of the Trinity nuclear test, 1945 (Berlyn Brixner, Atomic Photographers Guild website)



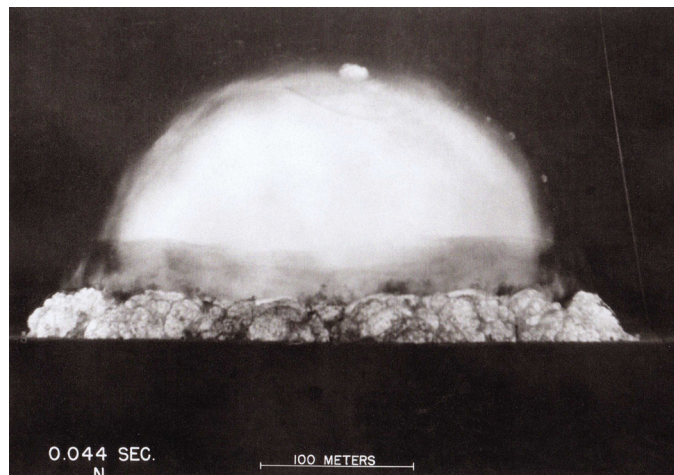
2.3.016 Photograph of the Trinity nuclear test, 1945 (Berlyn Brixner, Atomic Photographers Guild website)



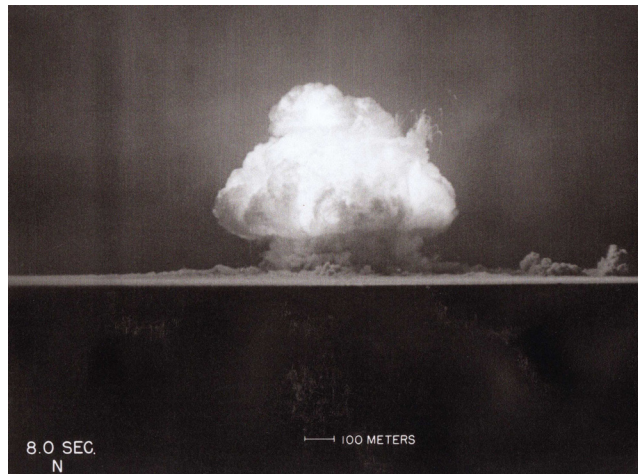
2.3.017



2.3.018



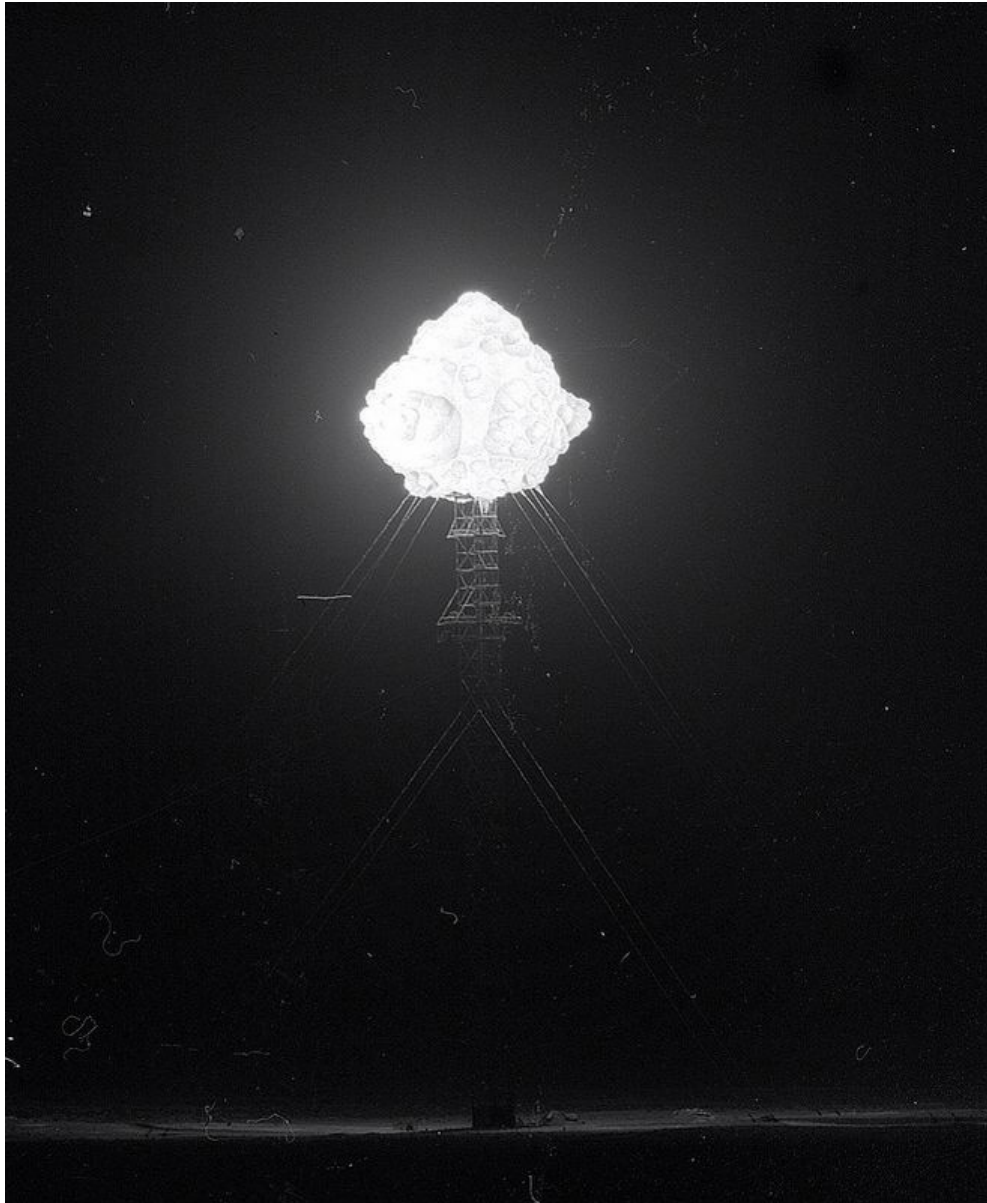
2.3.019 Photograph of the Trinity nuclear test, 1945 (Berlyn Brixner, Atomic Photographers Guild website)



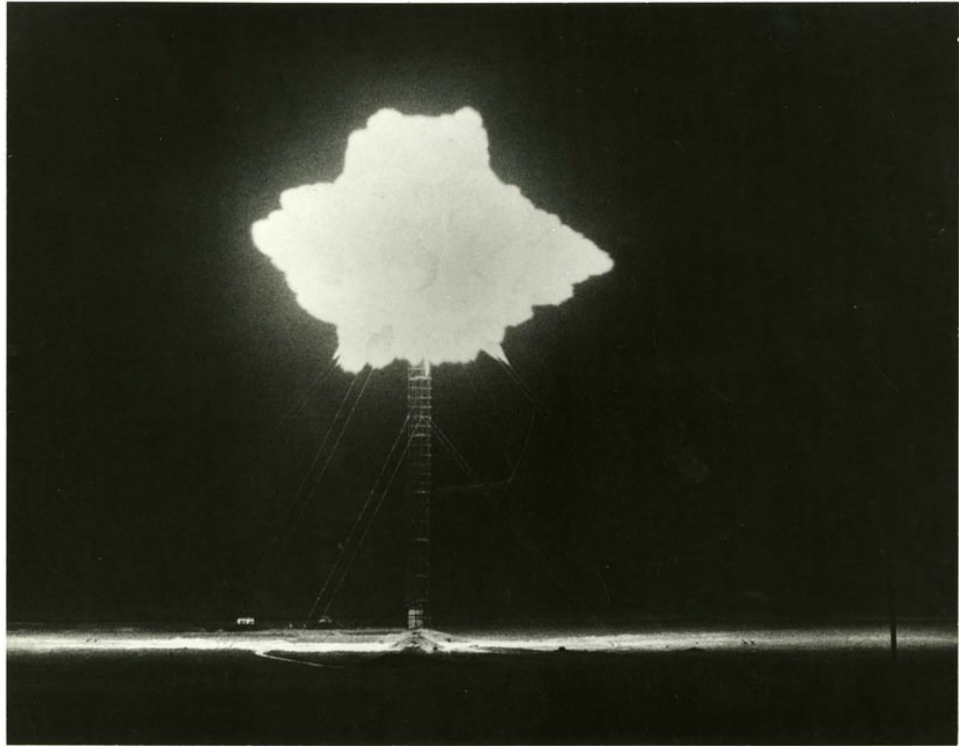
2.3.020



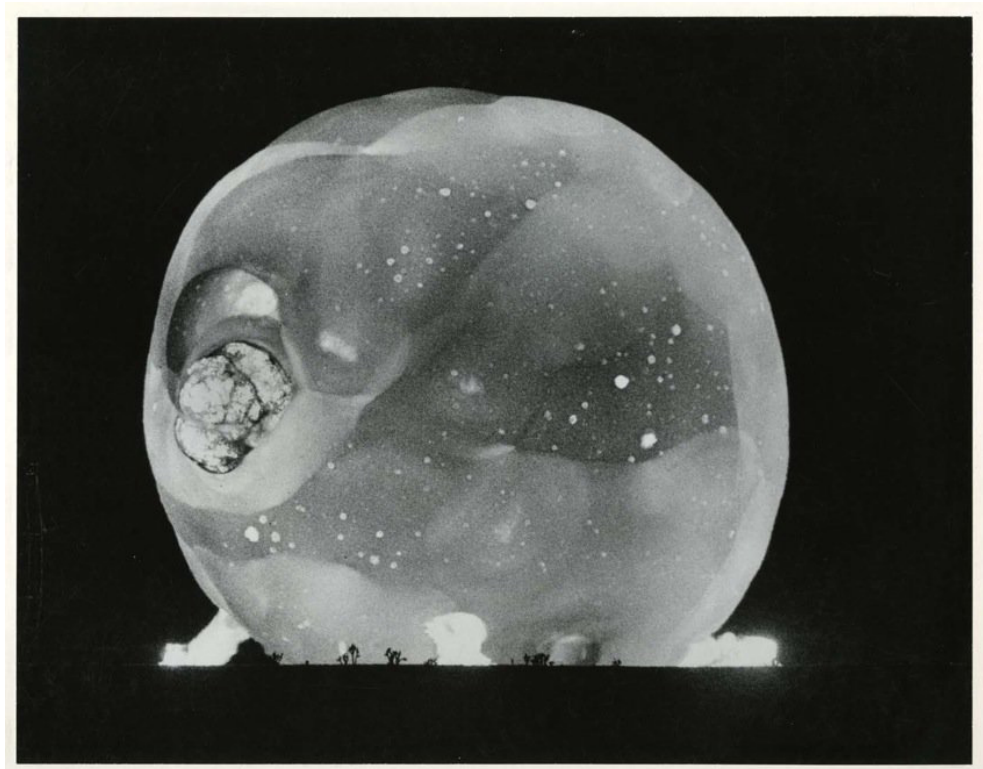
2.3.021 Photograph of a nuclear detonation by Harold Edgerton using his rapatronic technology



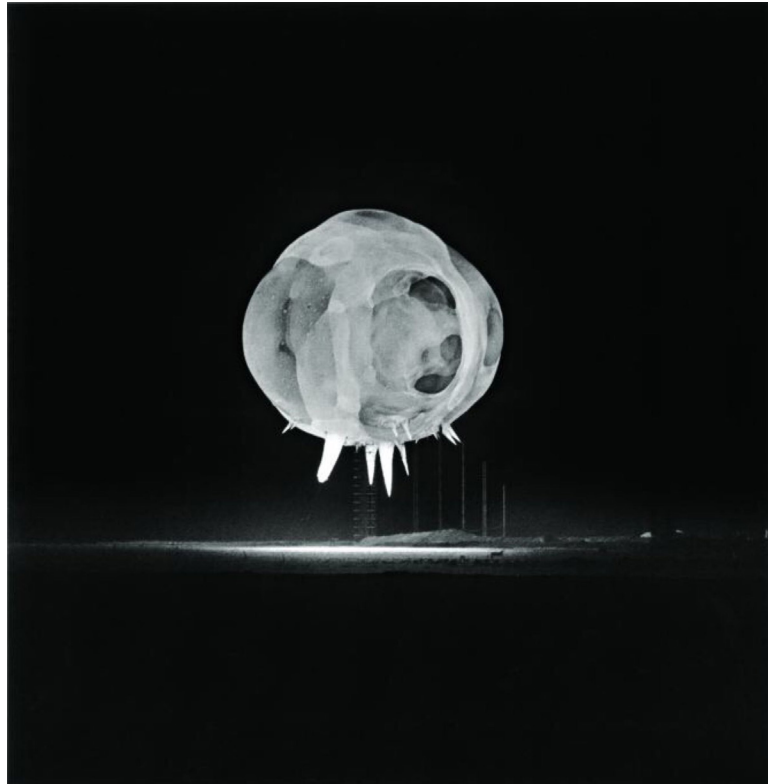
2.3.022 Photograph of a nuclear detonation by Harold Edgerton using his rapatronic technology



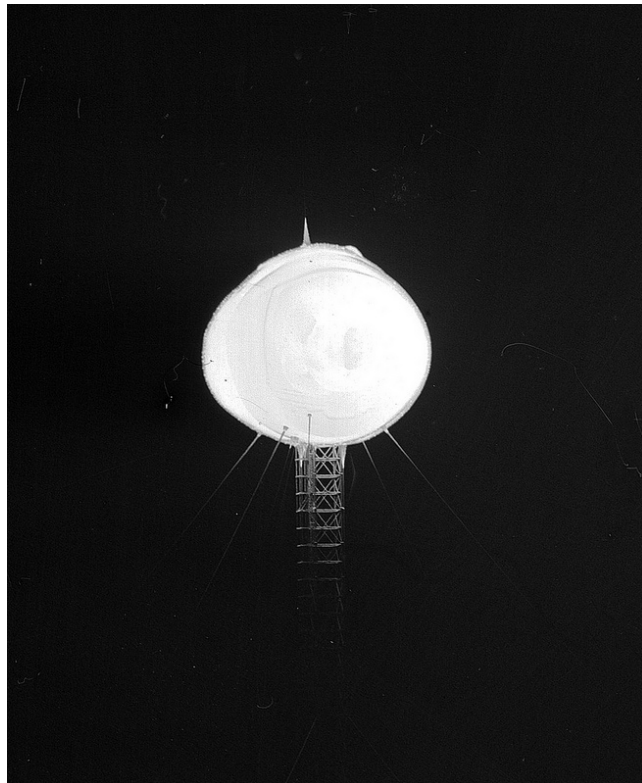
2.3.023 Photograph of a nuclear detonation by Harold Edgerton using his rapatronic technology



2.3.024 Photograph of a nuclear detonation by Harold Edgerton using his rapatronic technology



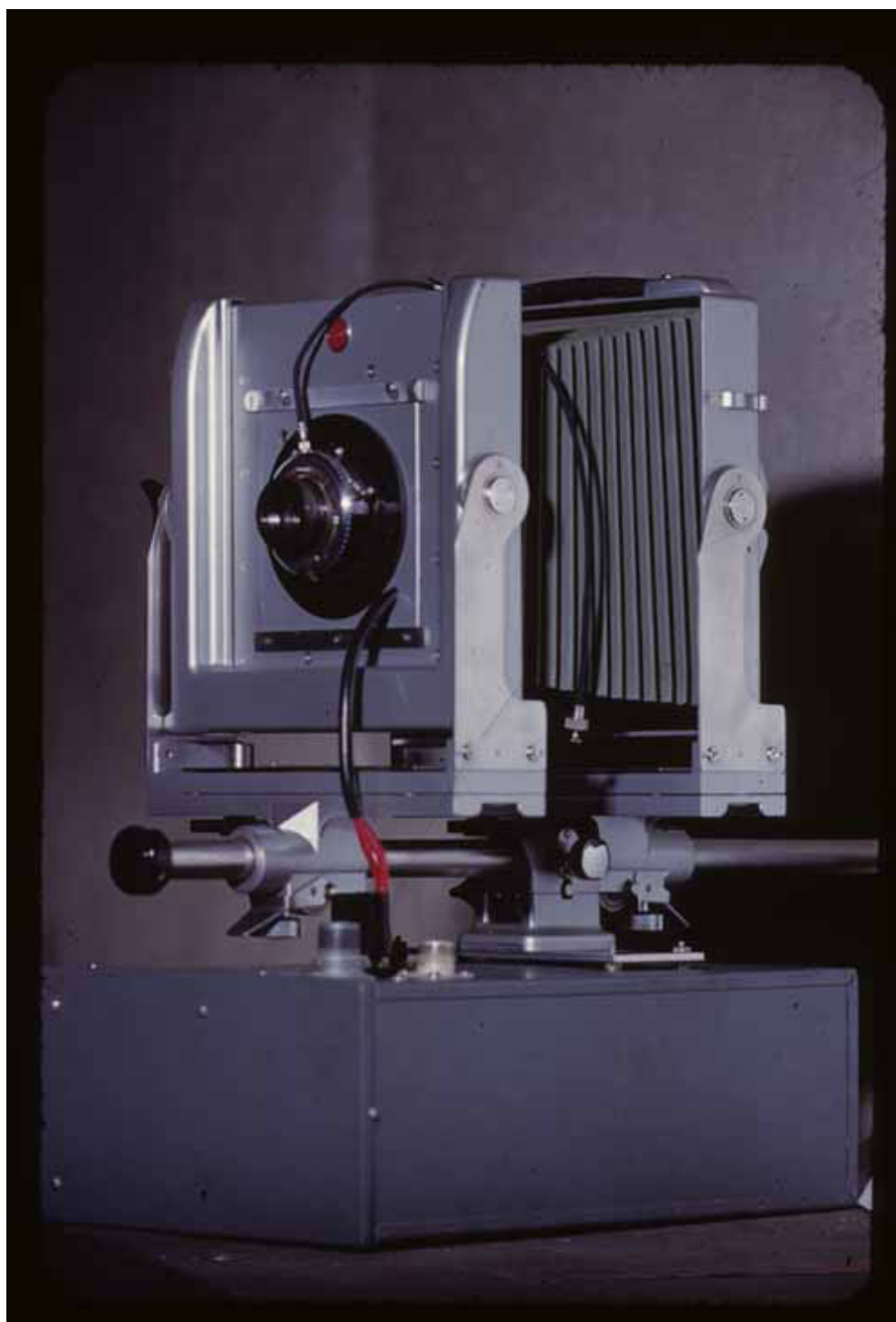
2.3.033 Photograph of a nuclear detonation by Harold Edgerton using his rapatronic technology



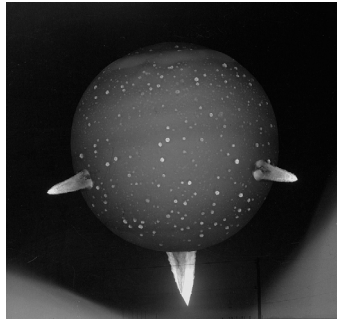
2.3.028 Lt. Col. W. Arthur Croteau points at a model of an atom bomb blast above a map of Ottawa during a 1952 exercise in Hull, Que. (York University Libraries, Clara Thomas Archives & Special Collections, Toronto Telegram)



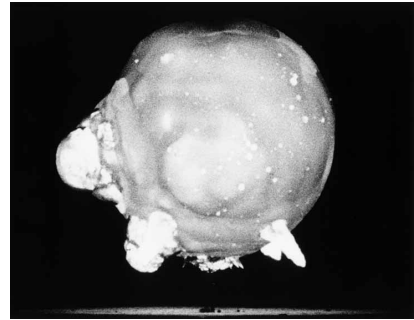
-
- 2.3.31 Magneto-optic shutter, for micro-second photography (e.g. Rapatronic camera); 1952 (Edgerton Digital Collections website)



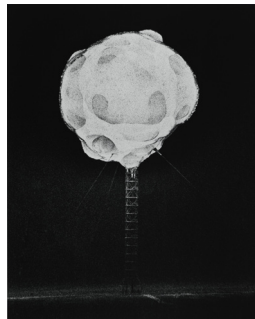
2.3.034



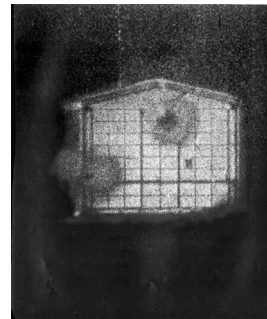
2.3.036



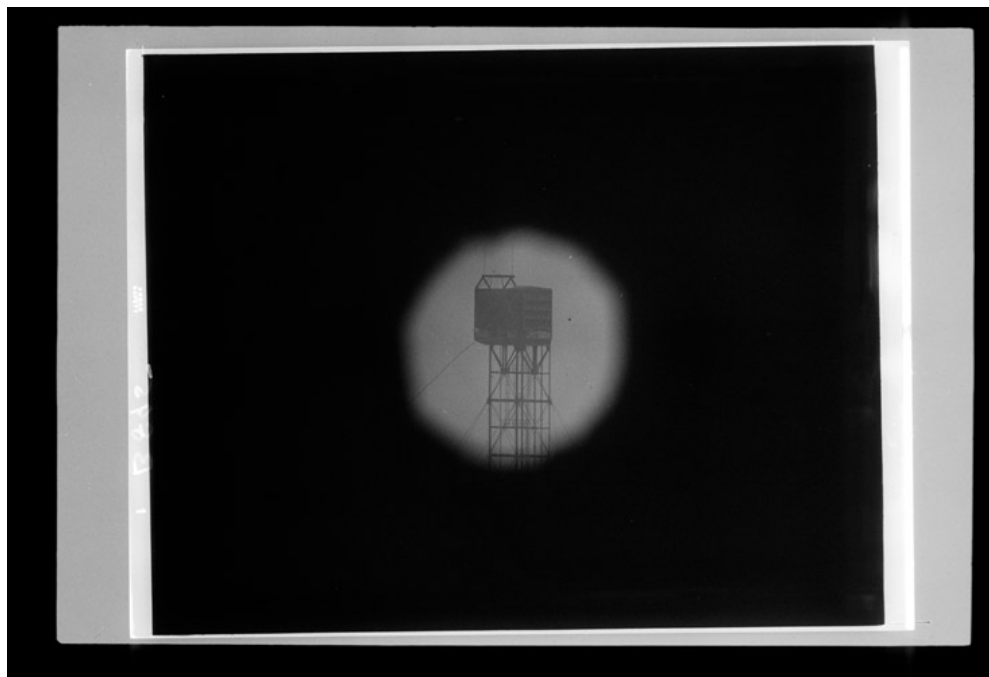
2.3.037



2.3.027



2.3.038



PART 3.0: MEDIATE / REMEDIATE

3.1: COLONIAL MAPPING AND AUSTRALIA



FW 3.1 Burns, David. *Trig Point (Tietkens Well)*. 2018.

FW 3.2 Burns, David. *Trig Point (Alice Springs)*. 2018.



FW 3.3 Burns, David. *Trig Point (Coober Pedy I)*. 2018.



FW 3.4 Burns, David. *Trig Point (Cooper Pedy II)*. 2018.



FW 3.5 Burns, David. *Trig Point (Breakaways)*. 2018.



3.1.007



3.1.008



Various images of Len Beadell installing trig points from Len Beadell, *Blast the Bush*.

3.1.009



3.1.010



3.1.011



3.1.012



3.1.013



3.1.014



3.1.009-3.1.014 Various images of Len Beadell installing trig points (Robin Matthews)

3.1.015



3.1.016



3.1.017



3.1.018



3.1.019



3.1.020



3.1.021



3.1.022

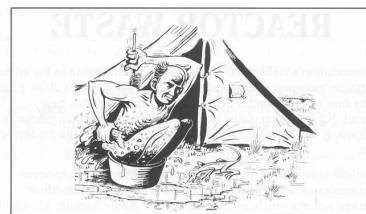


3.1.023



The descriptive, satirical drawing by the late Len Beadell regarding the supply lines between Woomera and Emu Field.

3.1.024



The descriptive drawing by the late Len Beadell for the washtub and the primitive way of bathing oneself in the early months of construction in 1953 at Emu Field, Maralinga from March to November 1955 and again for Camp 43, Maralinga during January/February 1956.

Cartoons by Len Beadell

3.1.025 "Aboriginal Stonehenge" from Len Beadell, *Blast the Bush*



PART 3.0: MEDIATE / REMEDIATE

3.2: THE ABORIGINAL EMBASSY

- 3.2.001 This engraving by Samuel John Neele of James Grant's image of 'Pimbloy' is believed to be the only known depiction of Pemulwuy. It was published in Grant's *The Narrative of a Voyage of Discovery, Performed in His Majesty's Vessel the Lady Nelson, of Sixty Tons Burthen, with Sliding Keels, in the Years 1800, 1801 and 1802, to New South Wales*, 1803. State Library of New South Wales Q80/18



- 3.2.003



3.2.011



Jimmy Clements (left) and John Noble,
Parliament House, 1927

3.2.013



Jimmy Clements, Parliament House,
1927

3.2.014



Jimmy Clements, Parliament House,
1927

3.2.015 Jimmy Clements, Parliament House, 1927



3.2.017 Aboriginal Embassy, 27 January 1972 by Noel Hazzard (Mitchell Library, State Library of New South Wales)



3.2.018 Aboriginal Embassy, 27 January 1972 by Noel Hazzard (Mitchell Library, State Library of New South Wales)



3.2.019 Aboriginal Embassy, 27 January 1972 by Noel Hazzard (Mitchell Library, State Library of New South Wales)



3.2.020 Aboriginal Embassy, 27 January 1972 by Noel Hazzard (Mitchell Library, State Library of New South Wales)



3.2.021 Aboriginal Embassy by Noel Hazzard (Mitchell Library, State Library of New South Wales)



3.2.022 Aboriginal Embassy by Noel Hazzard (Mitchell Library, State Library of New South Wales)



3.2.023 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.024 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.025 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.026 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.027 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.028 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.029 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.030 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.031 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.032 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.033 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.034 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.035 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.036 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.037 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.038 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.039 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.040 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.041 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



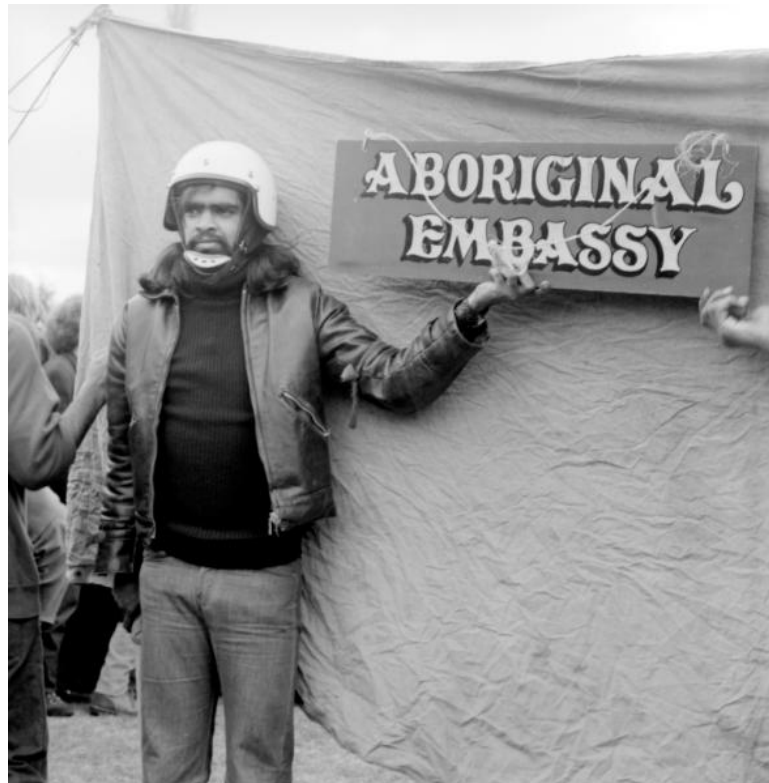
3.2.042 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.043 Aboriginal Tent Embassy supporters' march to Parliament House, Canberra, 30 July 1972 (Tribune photographer, possibly Noel Hazzard - Mitchell Library, State Library of New South Wales)



3.2.046 Gary Foley, 1972



3.2.044



3.2.045



3.2.050



3.2.051



3.2.052



3.2.053



3.2.054



3.2.055



3.2.056



3.2.057



Various photographs from the Aboriginal Embassy, 1972 (uncredited)

3.2.058



3.2.059



Contemporary protest at the Aboriginal Tent Embassy

Sovereignty protest at Old Parliament House

3.2.063



3.2.064



3.2.065



3.2.066



Various photographs of Redfern Aboriginal Tent Embassy, 2014

3.2.068

SUGGESTED NAMES FOR FEDERAL CAPITAL CITY FROM MEMBERS OF PARLIAMENT.			
COMMONWEALTH OF AUSTRALIA 1918 HOME AFFAIRS 399			
No.	Name	Date	Suggestion.
1	Higgs, W. G.	18.1.15	To consider and decide by ballot.
2	McDonald, Charles	18.1.15	"Austral"
3	Oswame, A. T.	17.1.15	"Eden"
4	Cann, G.	18.1.15	"Canberra"
5	Johnson, W. Elliot,	17.1.15	"Canberra" "Hopton"
6	Deakin, A.	20.1.15	Choice should be made by National Parliament
7	Mathews, James	20.1.15	"Austral"
8	de Largie, H.	-	"Myola" "Canberra"
9	Best, R. W.	20.1.15	"Wattleton"
10	West, J. E.	18.1.15	"Canberra"
11	Riley, Edward,	18.1.15	"The National City"
12	McDougall, Allan	20.1.15	"Canberra"
13	Johnson, W. J.	19.1.15	"Aurora" "New Eve"
14	Maloney, W.	21.1.15	"Austral"
15	Archibald, W. O.	20.1.15	"Austral" "Australville"
16	Walker, F. T.	21.1.15	"Hopton" "Canberra"
17	Hove, R.	19.1.15	"Canberra"
18	Watkins, D.	21.1.15	"Austral City"
19	Green, W. Massey	22.1.15	Not to be settled upon until Parliament has been consulted.
20	Sanford, F. W.	22.1.15	"Theater" "Union"
21	Page, James	20.1.15	Whatever the Cabinet decide.
22	Givens, Thomas,	22.1.15	"Hone"
23	Fuller, George, W.	18.1.15	No name suggested.
24	Wise, G. W.	23.1.15	"Pass-Canberra"
25	Vardon, Jos.	23.1.15	Name should be chosen by Parliament.
26	Chapman, Austin,	-	"Austral"
27	Gould, A. J.	22.1.15	"Canberra"

3.2.069

No.	Name	Date	Suggestion.
28	Rae, Arthur,	19.1.15	"Telopea"
29	Finlayson, W. F.	24.1.15	"Aurora" "Australia" "Bonellia" "Pacific Queen" "Canopus" "Pacificia"
30	Findley, E.	-	"Eden"
31	Pearce, G.F.	20.1.15	Rather not suggest at present.
32	Ryrie, Granville,	23.1.15	"Canberra"
33	Jensen, J.A.	25.1.15	"Alexandra"
34	Fairbairn, George,	27.1.15	"Austral" "Australtown"
35	Watts, W.W.	28.1.15	"Andy Man" "Fraser Poo" "Wescenia"
36	McGregor, G.	26.1.15	"Myola"
37	Brown, Thomas,	-	"Myola" "Austral" "Canberra" "Pacificia"
38	Chamber, F. M.	30.1.15	"Myola" Waratah" "Pacificia"
39	Foster, F. J.	-	"Myuria"
40	Steuclair, Hugh,	-	"Hopton"
41	Long, J. T.	31.1.15	"Kington"
42	St Ledger, A	1.2.15	-
43	Needham, E.	26.1.15	"Wentworth" "Kington"
44	Gordon, David, J.	5.2.15	"Flinders" "Alexandra"
45	Quick, John.	6.2.15	"Southern Cross".
<i>Noted</i>			
47	Hedges, W. M.	24.2.15	"Australiana"
48	Russell, E. J.	24.2.15	"Aradia"
49	Sent by Roberts, E.A.	17.2.15	"Gamelyn"
50	Brown, T.	-	"Gamelyn"
51	Cann, G.	-	"Gamelyn"
52	Prime Minister	-	"Gamelyn"
53	Wynne, Agar	-	"Aurora"
54	Penton, J. A.	24.2.15	Parliament should name the place
55	Austey, Frank	24.2.15	"Canberra"

Registry of suggested names for the new capital city by Members of Parliament, 1918-1923

3.2.071



Walter Burley Griffin's competition entry drawn on top of the contour survey (National Archives of Australia)

3.2.072 Winning competition entry for design of the new federal capital of Australia by Walter Burley Griffin, 1912 (National Archives of Australia)



3.2.073 Competition entry for design of the new federal capital of Australia by Eliel Saarinen, 1912 (National Archives of Australia)



3.2.074



3.2.075

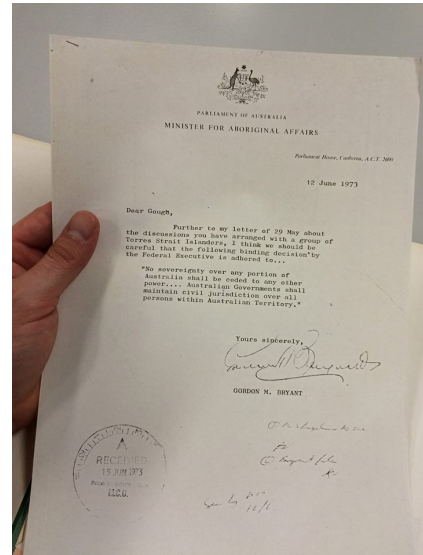


Gough Whitlam with singer Little Pattie wearing their It's Time campaign T-shirts in 1972. Photograph: Graeme Fletcher/Getty Images

3.2.076 Queen Elizabeth II and Gough Whitlam



3.2.077 Warning letter to Gough Whitlam about Aboriginal and Torres Strait Islander sovereignty



3.2.078 Gough Whitlam and Governor General John Kerr



3.2.079 Mervyn Bishop, Prime Minister Gough Whitlam pours soil into the hands of traditional land owner Vincent Lingiari, Northern Territory (1975). Type R3 photograph. Art Gallery of New South Wales, Hallmark Cards Australian Photography Collection Fund 1991. © Mervyn Bishop. Department of the Prime Minister and Cabinet.



3.2.080



Photographs by Mervyn Bishop

3.2.082



3.2.083



Mervyn Bishop with Vincent Lingiari and other activists

3.2.084



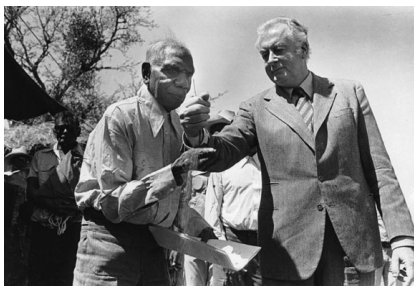
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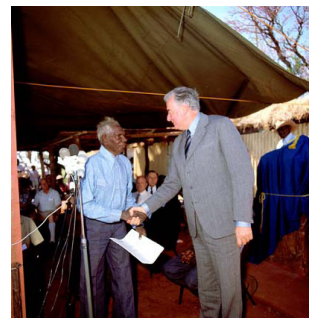
3.2.086



3.2.087



3.2.088



3.2.085-3.2.088 Alternate photographs of the ceremony, 1975, uncredited

3.2.089 Medallion supporting the White Australia policy, 1901



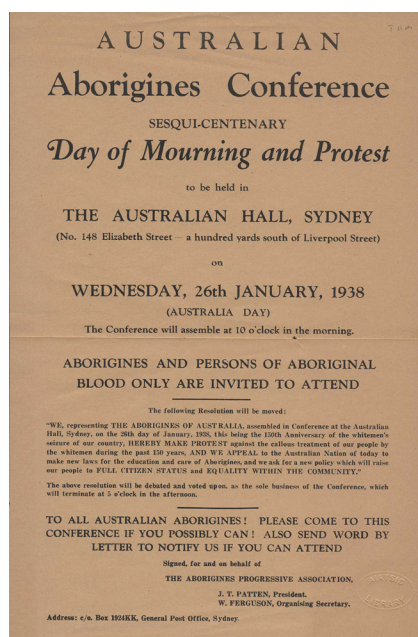
3.2.090 Sheet music for "White Australia", 1910



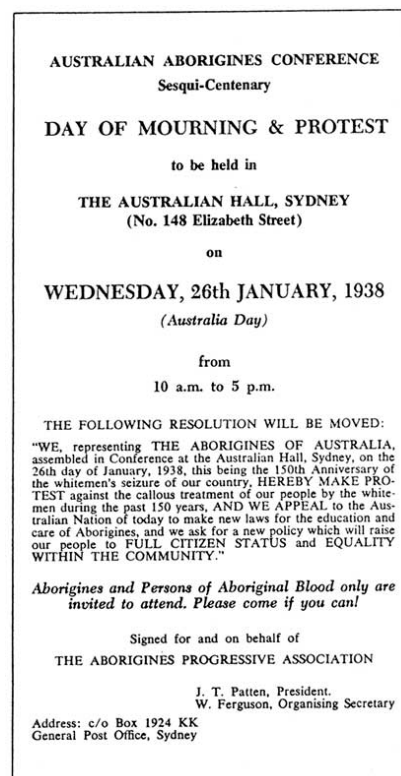
3.2.091 White Australia celebrations, 1910



3.2.092 Poster for Day of Mourning protest, 1938



3.2.093



3.2.094 Day of Mourning protest, 1938



3.2.095 Freedom Ride 1965, Charlie Perkins fourth from left. Photographs by Noel Hazzard (State Library of New South Wales)



3.2.096



3.2.095 - 3.2.167 Noel Hazzard, 1965 (State Library of New South Wales)

3.2.096



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3.2.109



3.2.110



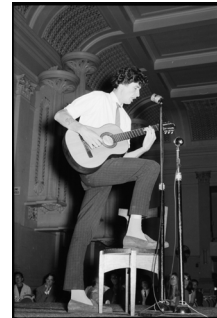
3.2.111



3.2.112



3.2.113



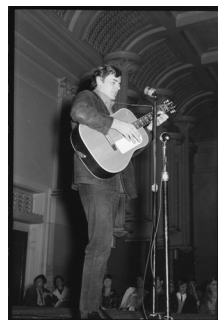
3.2.114



3.2.115



3.2.116



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3.2.138



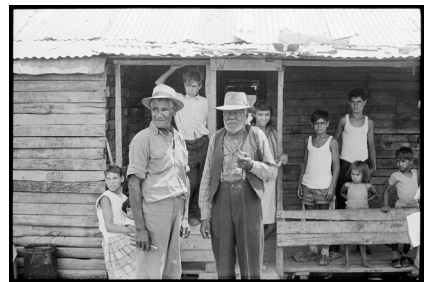
3.2.139



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3.2.165



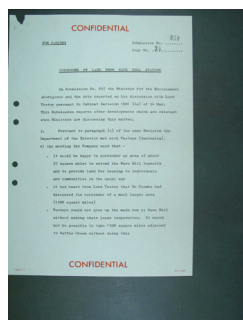
3.2.166



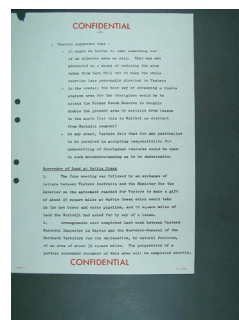
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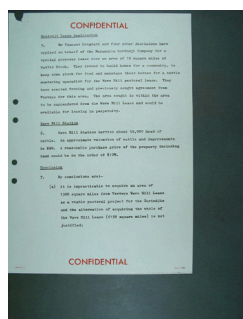
3.2.177



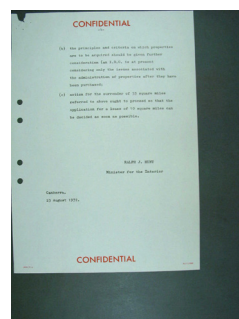
3.2.178



3.2.179



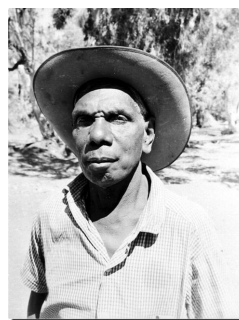
3.2.180



3.2.181



3.2.182



3.2.183



3.2.184

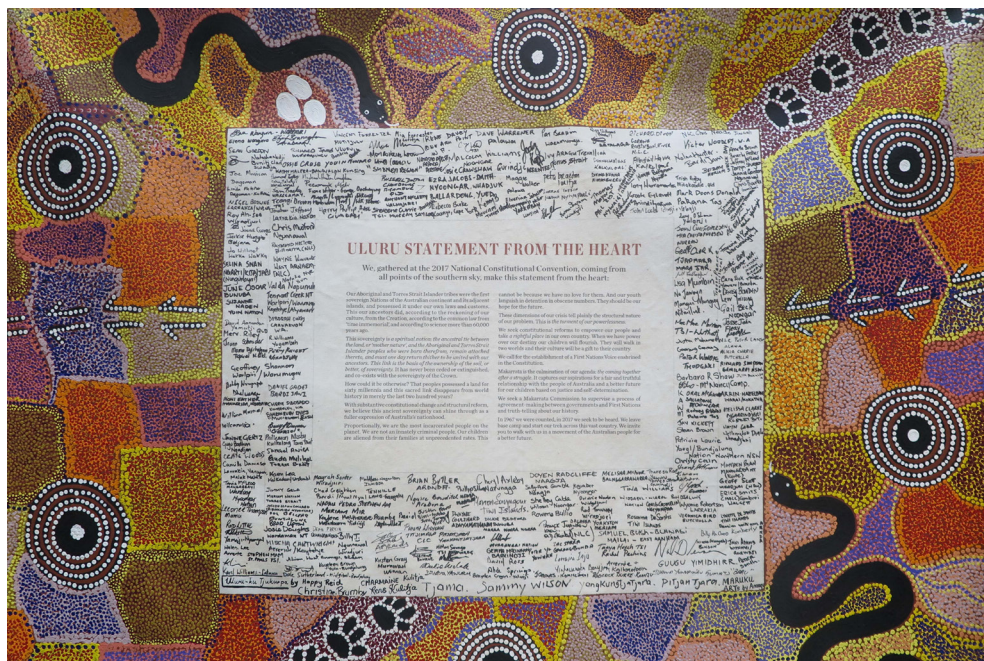


3.2.181-183 Various photos of Vincent Lingiari, ca. 1972

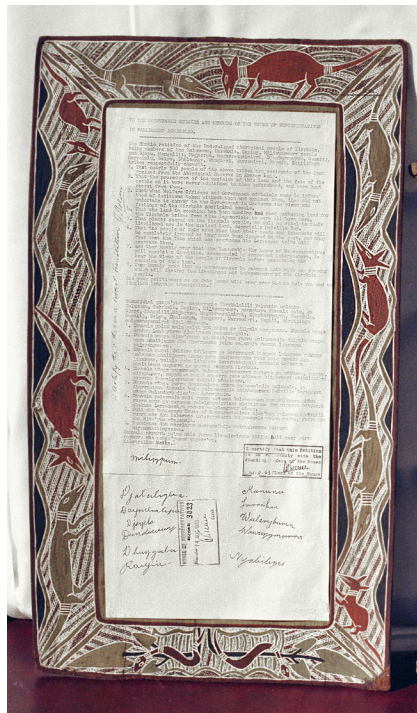
3.2.185 Uluru Statement from the Heart, 2017



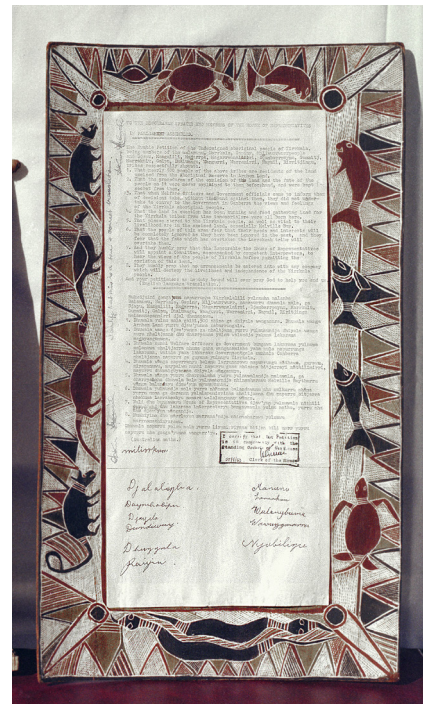
3.2.186



3.2.187



3.2.188



Yirrkala artists, Dhuwa moiety. Yirrkala Bark Petition 1963, 14.8.1963 46.9 x 21 cm, natural ochres on bark, ink on paper House of Representatives, Canberra

3.2.189 Mick Mundine, CEO of Aboriginal Housing Company



3.2.190 Jenny Munro, Wiradjuri elder and prominent activist



3.2.191 Bell, Richard. *Embassy*. 2013-present (Institute of Modern Art, Brisbane)



3.2.192 Bell, Richard. *Embassy*. 2013-present (Institute of Modern Art, Brisbane)



3.2.193 Bell, Richard. *Embassy*. Installed in the forecourt of the Museum of Contemporary Art, Sydney, 2016



3.2.196 Bell, Richard. *Embassy* (Institute of Modern Art, Brisbane, 2013)



3.2.197 Bell, Richard. *Embassy*. Installed in Cairns Indigenous Art Fair, 2016



3.2.201 Moore, Archie. *A Home Away From Home (Bennelong/Vera's Hut)*, 2016



3.2.202 Moore, Archie. *A Home Away From Home (Bennelong/Vera's Hut)*, 2016 (Detail)



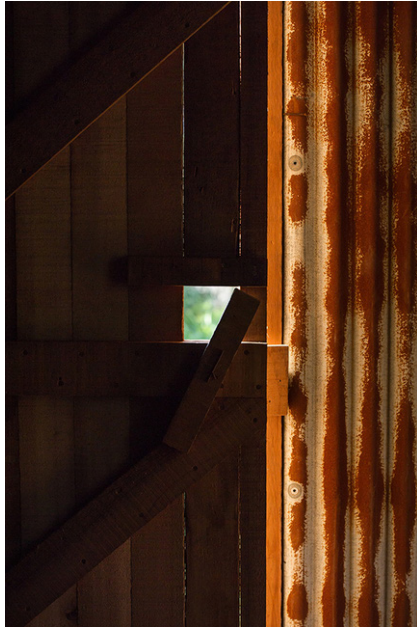
3.2.203 Moore, Archie. *A Home Away From Home* (Bennelong/Vera's Hut), 2016 (Detail)



3.2.204 Moore, Archie. *A Home Away From Home* (Bennelong/Vera's Hut), 2016



3.2.205



3.2.206



3.2.207



3.2.212 Moore, Archie. *United Neytions* (public art commission), 2018, Sydney Airport T1 International Terminal (airside) | Commissioned by Sydney International Airport in partnership with the Museum of Contemporary Art Australia



3.2.213



3.2.214 Moore, Archie. *Clover*, 2012



3.2.215 Moore, Archie. *Clover*, 2012



3.2.219 Moore, Archie. *Aboriginal Right*, 2012 (National Gallery of Australia)



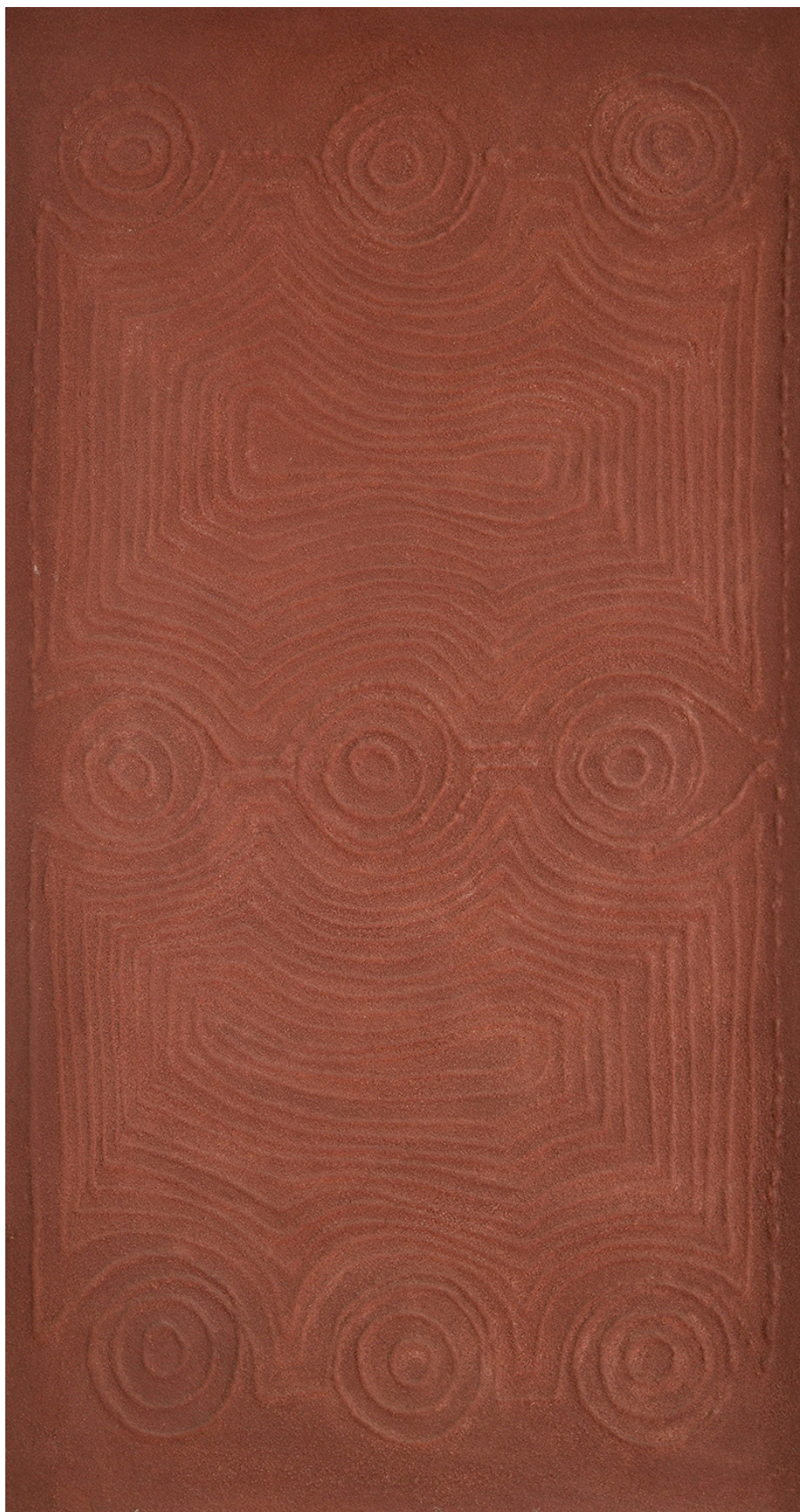
3.2.220 Moore, Archie. *Aboriginal Left*, 2012 (National Gallery of Australia)



PART 3.0: MEDIATE / REMEDIATE

3.3: POISON COUNTRY

3.3.001 Brown, Jonathan Kumintjarra, *Broad Shield Design*



3.3.002 Brown, Jonathan Kumintjarra, *After the Test*. 1996.



3.3.003 Brown, Jonathan Kumintjarra, *Black Rain*. 1995.



3.3.004 Brown, Jonathan Kumintjarra, *Circular Wanigi*



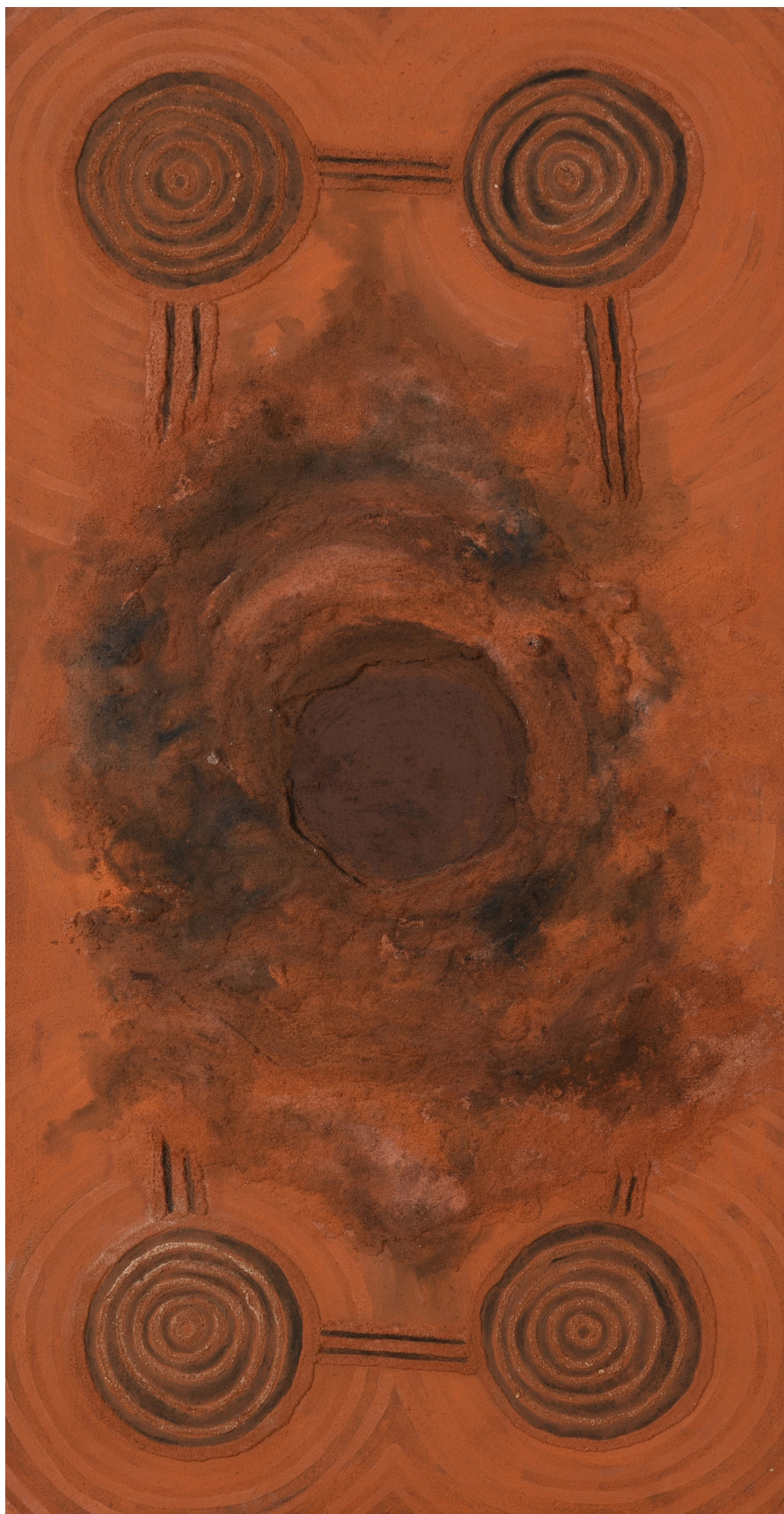
3.3.007 Brown, Jonathan Kumintjarra, *Maralinga Before the Atomic Test*. 1994.



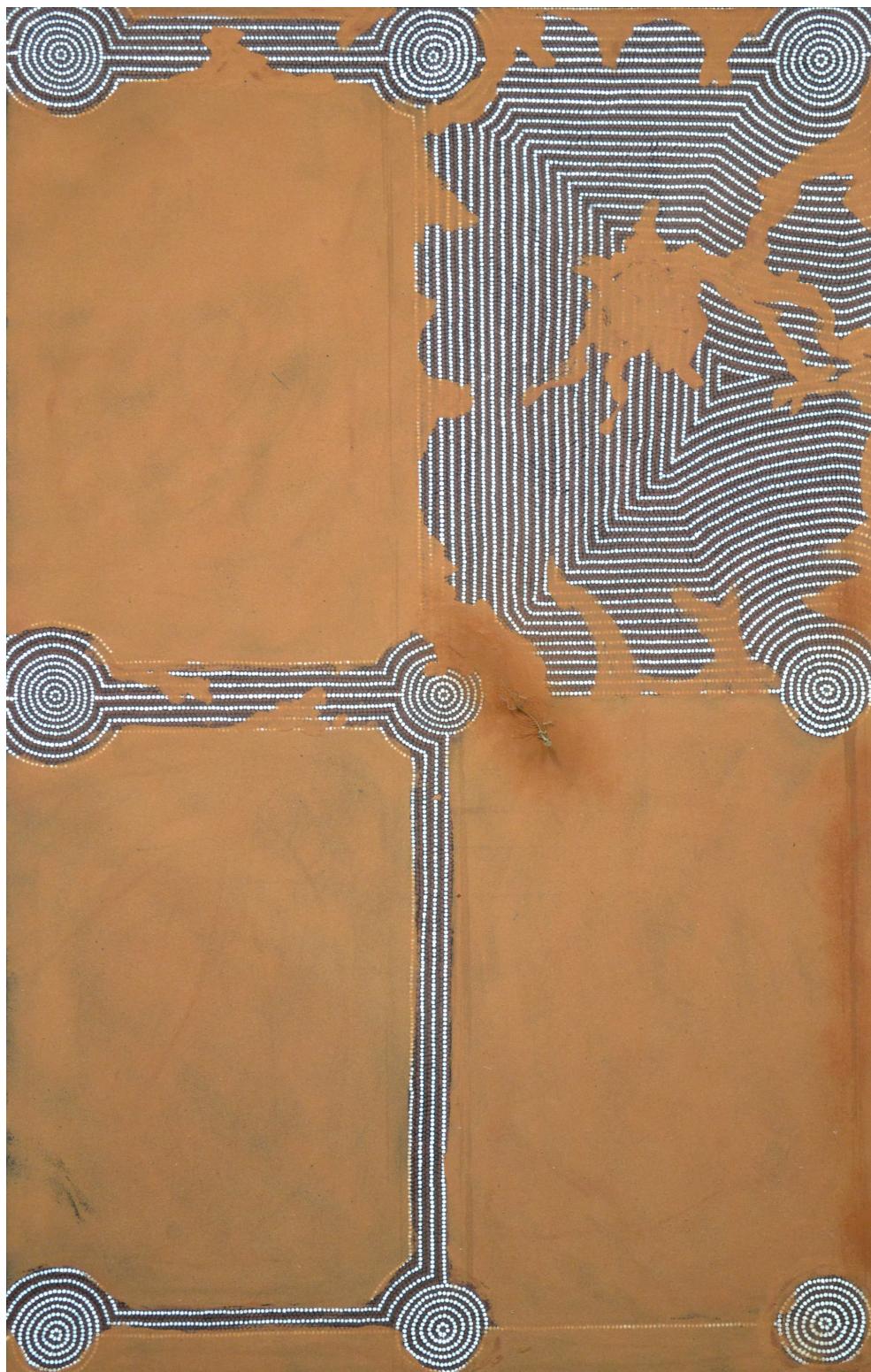
3.3.005 Brown, Jonathan Kumintjarra, *Frogmen*. 1996.



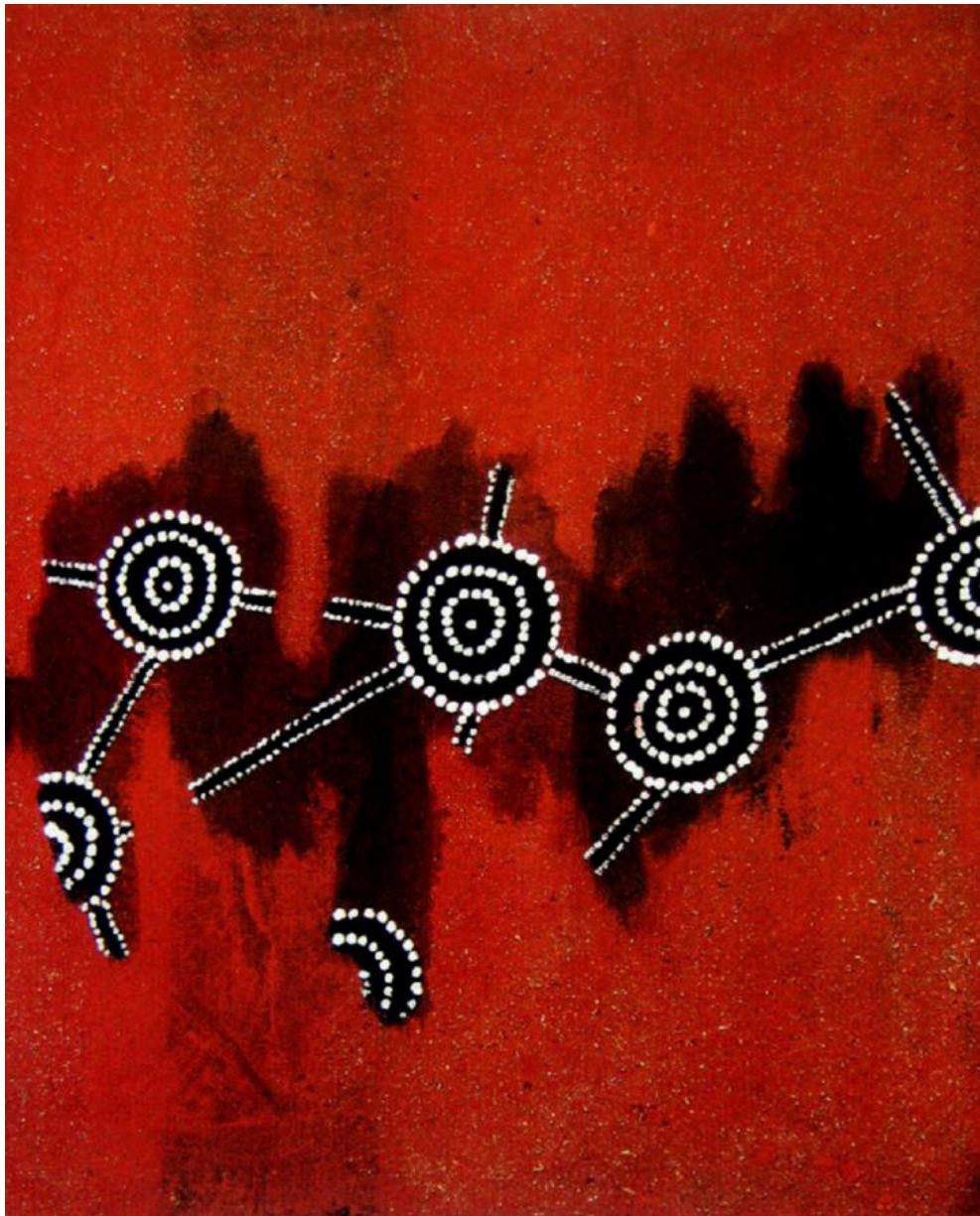
3.3.006 Brown, Jonathan Kumintjarra, *Maralinga Aftermath Crater Where Four Bodies Were Found*. 1996.



3.3.008 Brown, Jonathan Kumintjarra, *Maralinga*. 1992.



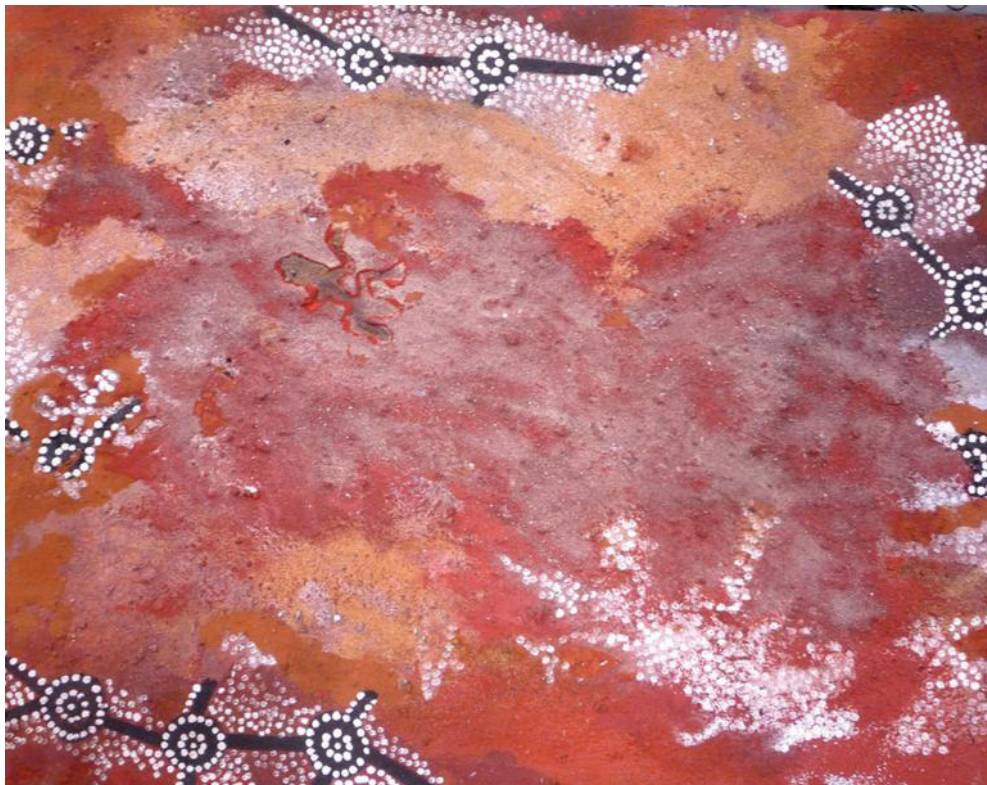
3.3.009 Brown, Jonathan Kumintjarra, *Maralinga*. 1995.



3.3.010 Brown, Jonathan Kumintjarra, *Maralinga*-detail. 1992.



3.3.011 Brown, Jonathan Kumintjarra, *Oak Valley-Field of Thunder*. 1995.



3.3.012 Brown, Jonathan Kumintjarra, *Old Country-Maralinga Atomic Test*. 1995.



3.3.013



3.3.014 Brown, Jonathan Kumintjarra, *Poison Country*. 1995.



3.3.017



3.3.018



3.3.019

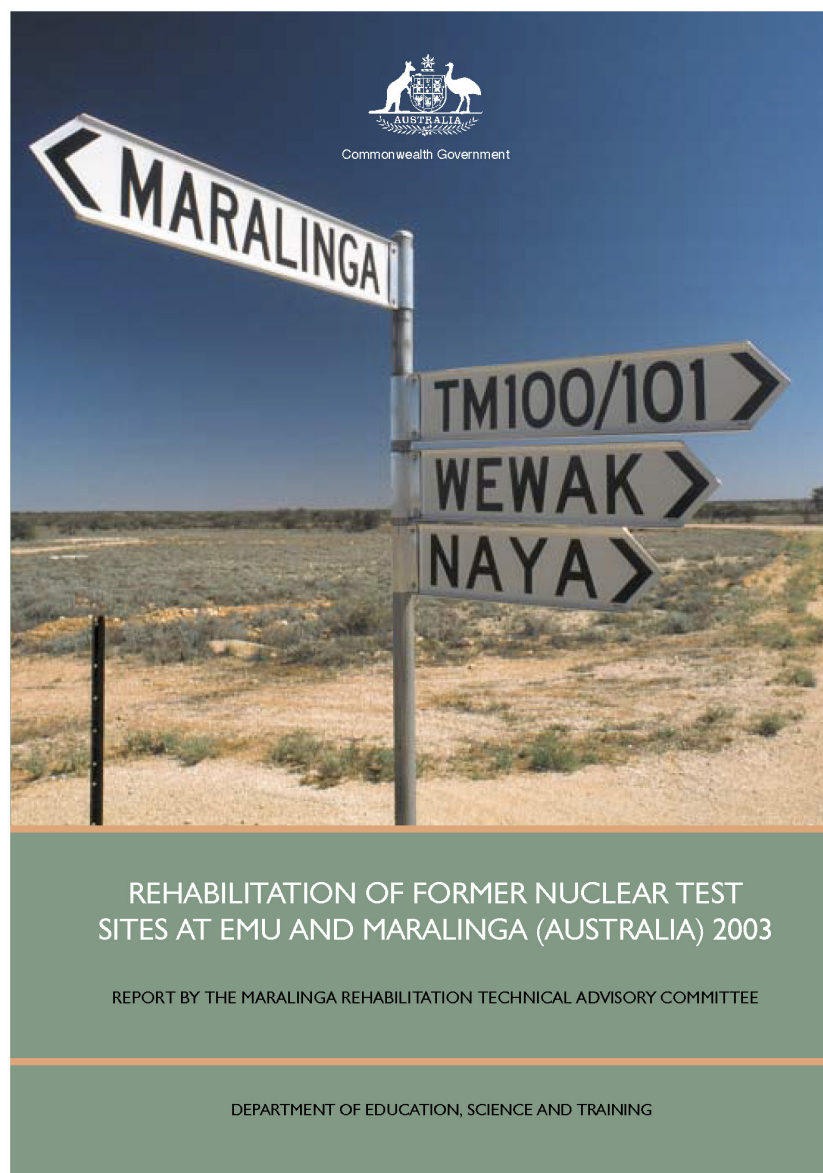


3.3.021

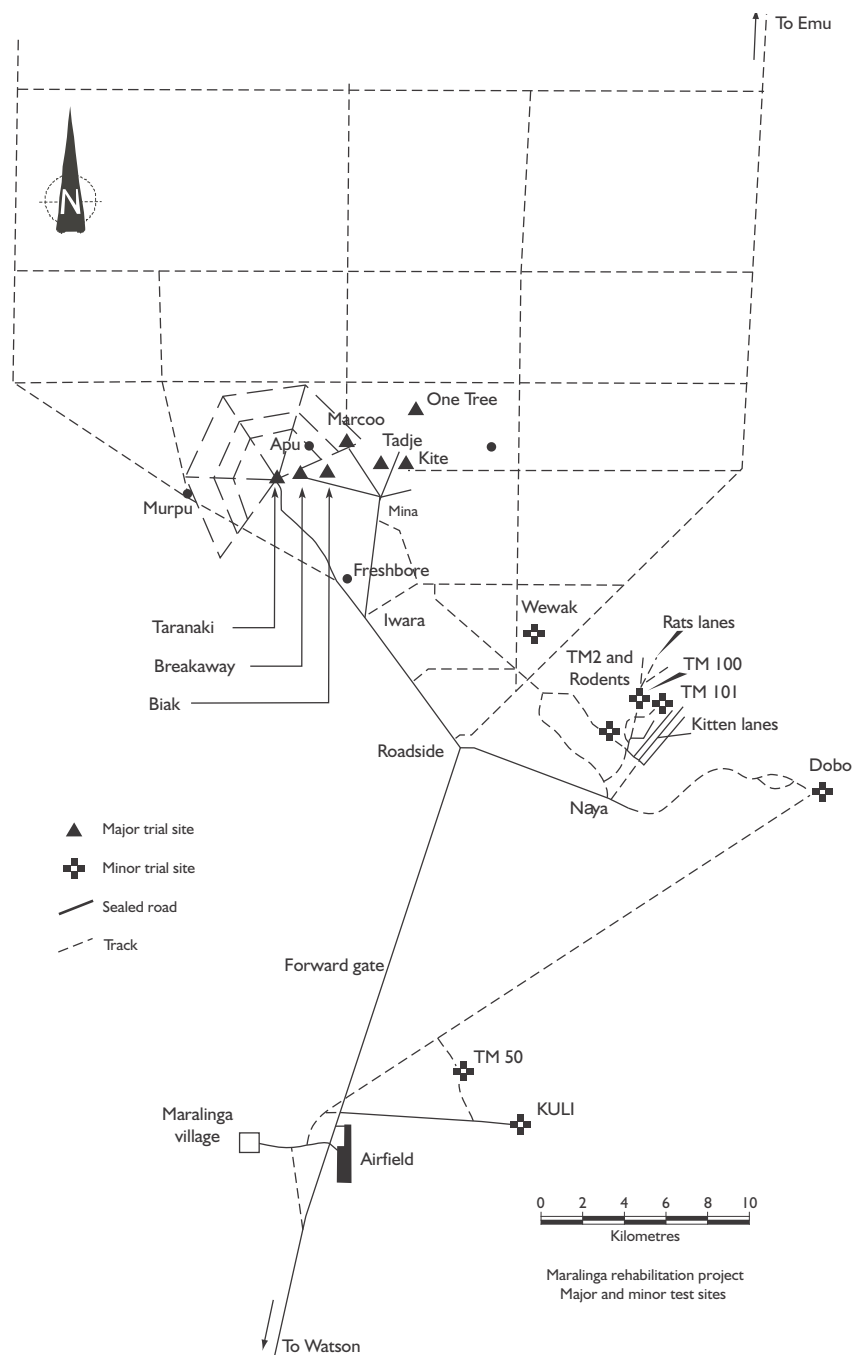


3.3.020

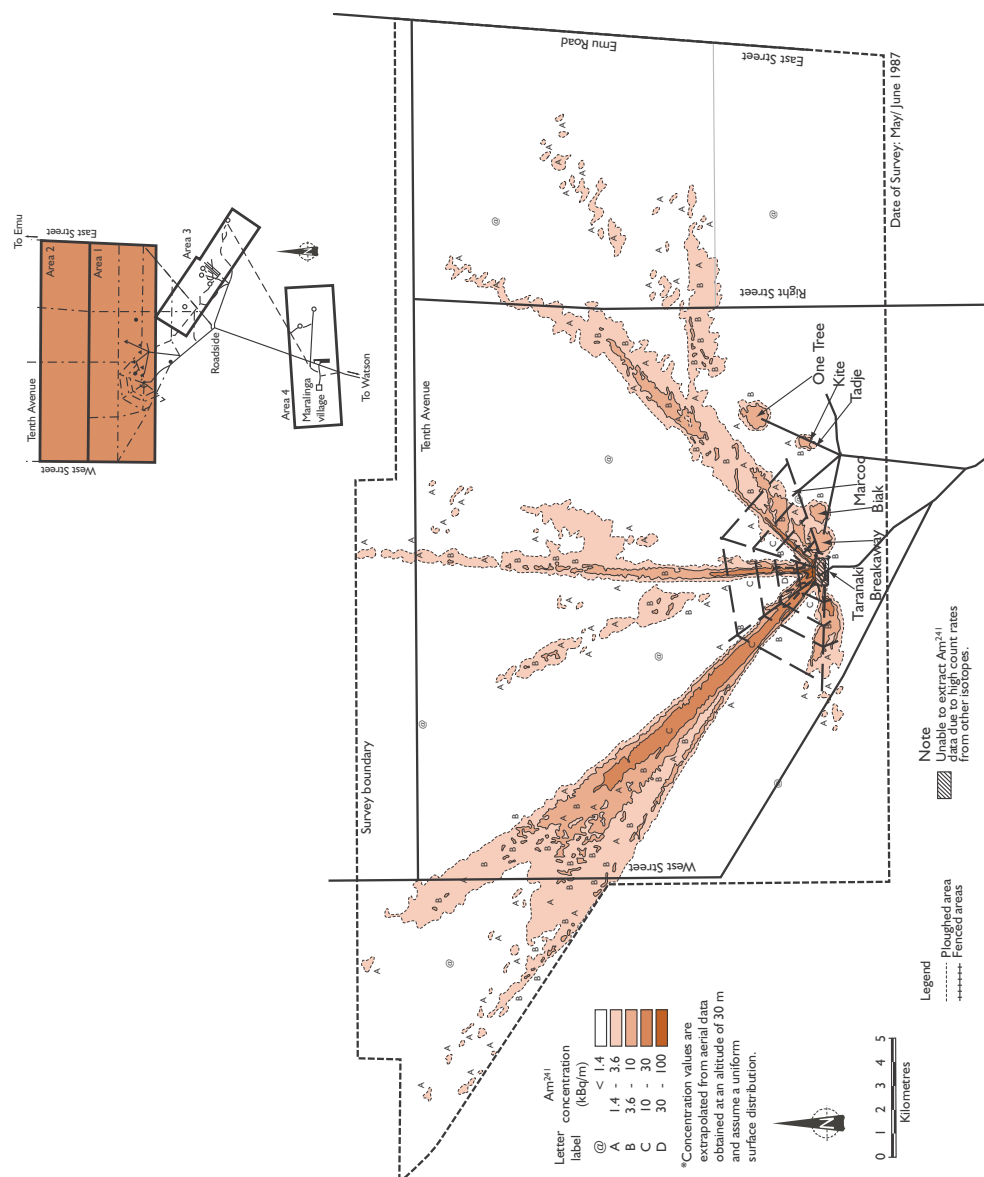


3.3.021 Cover of the *Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003*

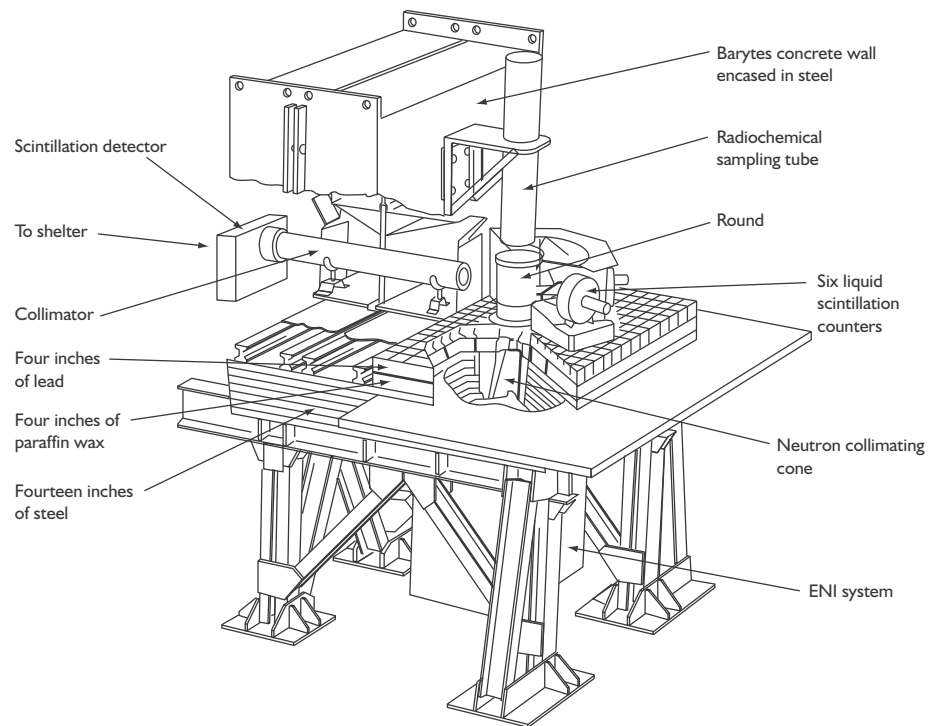
3.3.022 Map showing major and minor trial sites at Maralinga (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



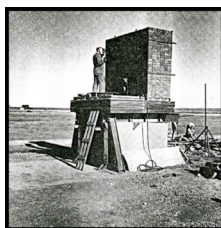
3.3.023 Results of the aerial survey for Am^{241} (Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee)



3.3.024 Drawing of a "featherbed" (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



3.3.025 "Featherbed" construction used during minor trials



3.3.026 "Featherbed" following minor trials



3.3.027



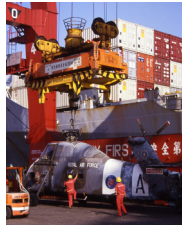
3.3.028 Tommy Queama and Jack Baker hold the Maralinga land grant documents, 18 December 1984. Photo by Milton Wordley/Newspix



3.3.029



3.3.030



3.3.031



3.3.032



3.3.033



3.3.034



3.3.035



3.3.036



3.3.037



3.3.038



3.3.039



3.3.040



3.3.041



3.3.042



3.3.043



3.3.061-075 - The preparation and build-up to the aerial radiological survey, ca. 1987 (Robin Matthews)

3.3.044



3.3.045



3.3.046



3.3.047



3.3.048



3.3.049



3.3.050



3.3.051



3.3.052



3.3.053



3.3.054



3.3.055



3.3.056



3.3.057



3.3.058



3.3.076-090 - The alterations made to Maralinga Village during the radiological survey, including the installation of new housing "dongas" and telecommunication links. The helicopter pictured is the aircraft used to conduct retail radiological surveys of the site, ca. 1987. (Robin Matthews)

3.3.059



3.3.060



3.3.061



3.3.062



3.3.063



3.3.064



3.3.065



3.3.066



3.3.067



3.3.068



3.3.069



3.3.070



3.3.071



3.3.072



3.3.091-105 - The alterations made to Maralinga Village, including the installation of new housing "dongas" and telecommunication links. The helicopter pictured is the aircraft used to conduct retail radiological surveys of the site, ca. 1987. (Robin Matthews)

3.3.073



3.3.074



3.3.075



3.3.076



3.3.077



3.3.078



3.3.079



3.3.080



3.3.081



3.3.082



3.3.083



3.3.084



3.3.085



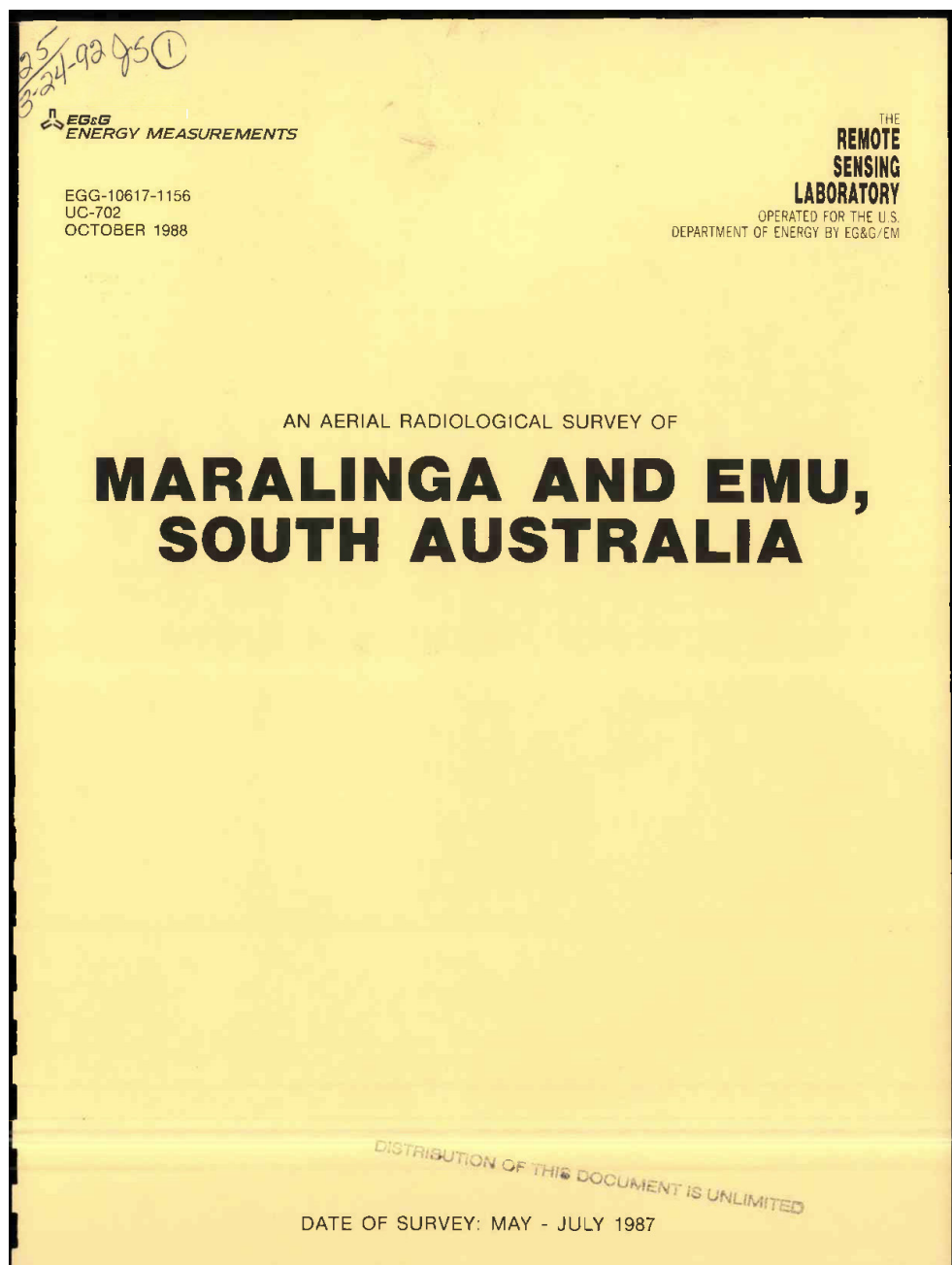
3.3.086



3.3.087



- 3.3.088 Report detailing the aerial radiological survey conducted by the US Department of Energy by invitation of the Australian government and in response to the recent creation of the Maralinga Tjarutja Land Rights Act. The findings in this report refuted two decades of misinformation about the condition of Maralinga. (1987)



FW 3.6 Burns, David. *Monument (Operation Brumby)*. 2018.



3.3.089



3.3.090



3.3.091



3.3.092



3.3.093



3.3.094



3.3.095



3.3.095



3.3.097



3.3.098



3.3.099



3.3.100



3.3.101



3.3.102



3.3.103



3.3.104



3.3.105



3.3.105



3.3.106



3.3.107



3.3.108



3.3.104-108 - Convoys of heavy trucks delivering equipment for the remediation efforts, ca. 1996-1998. (Robin Matthews)

3.3.109 Alan Parkinson at the Maralinga Village sign, ca. 1996-1998. (Robin Matthews)



3.3.110



3.3.111



3.3.112



3.3.113



3.3.114



3.3.115



3.3.116



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3.3.109-117 - Various images of Maralinga Village, Airfield, and life during remediation, ca. 1996-1998. (Robin Matthews)

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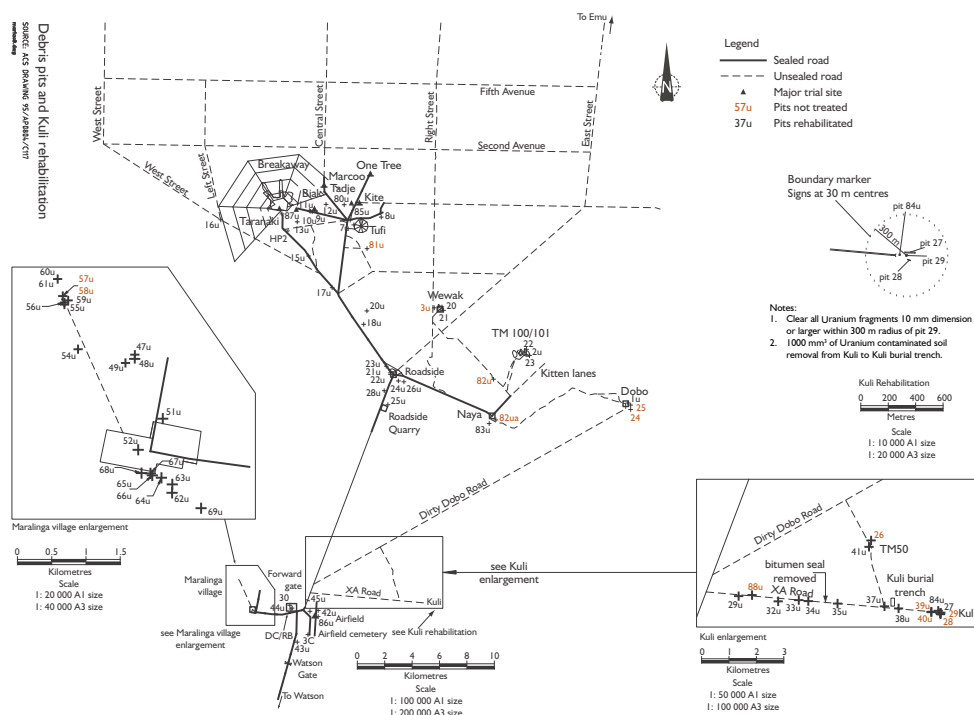
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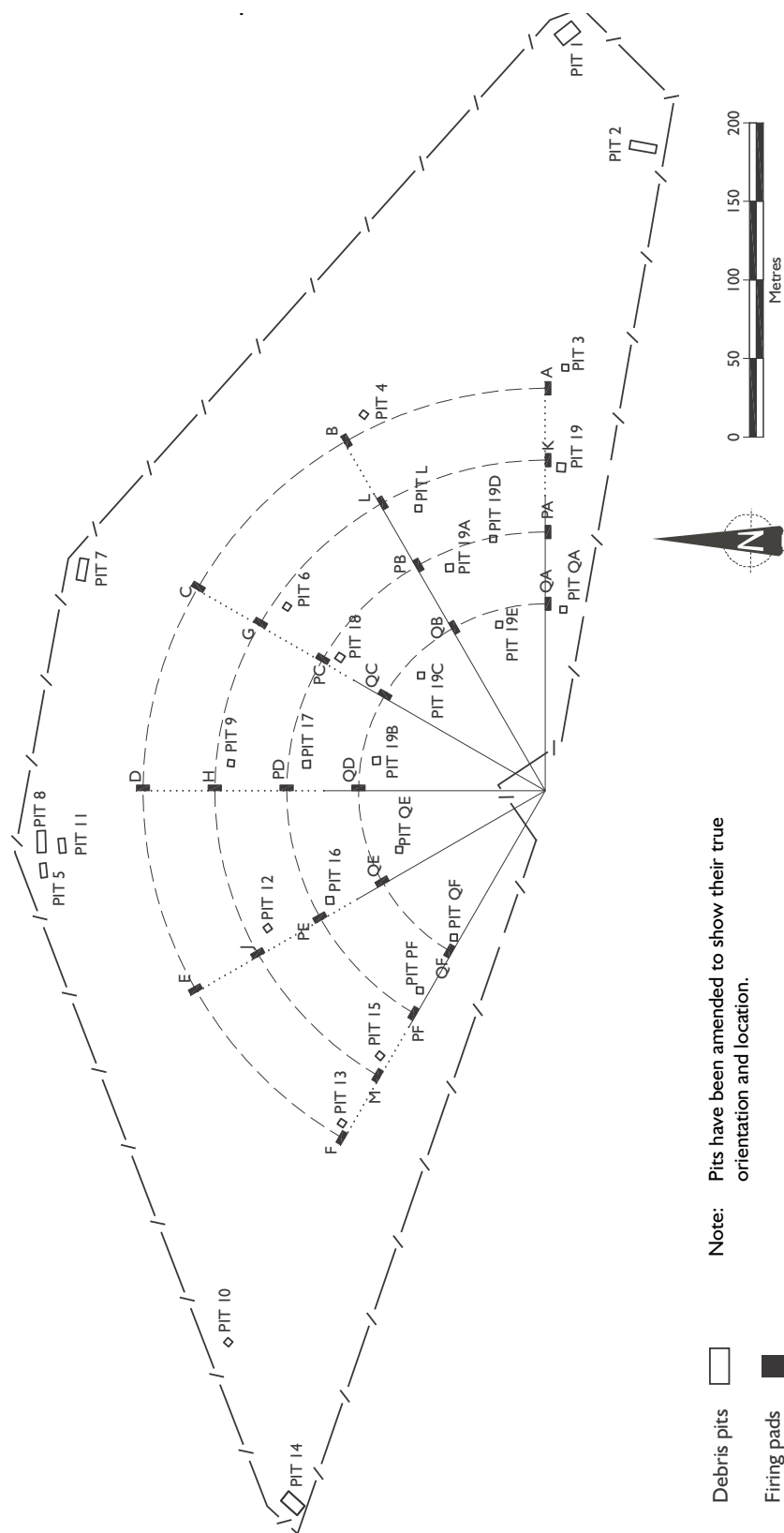
3.3.143



3.3.144 Location of informal pits (Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee)



3.3.145 Location of formal pits at Taranaki (Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee)



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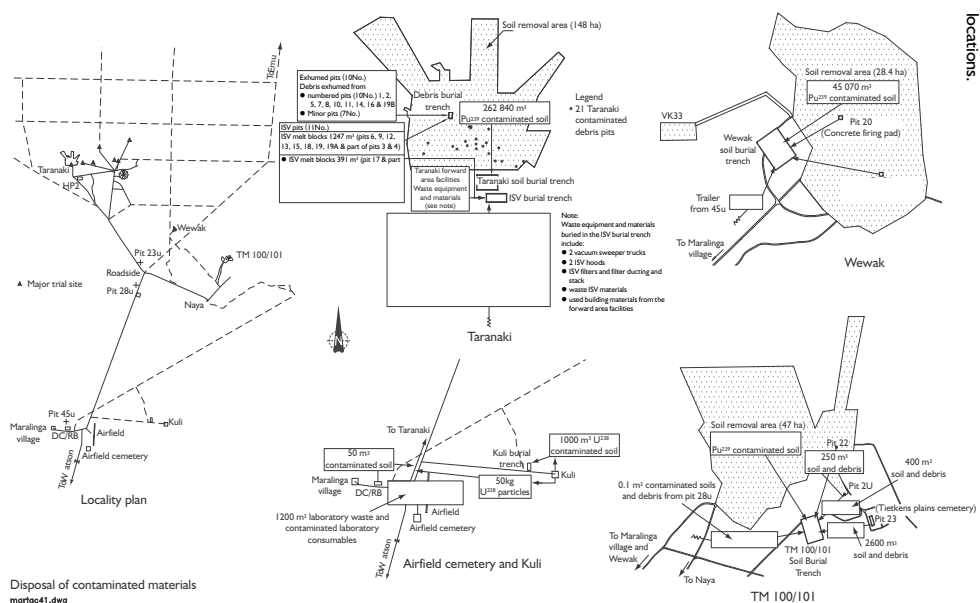
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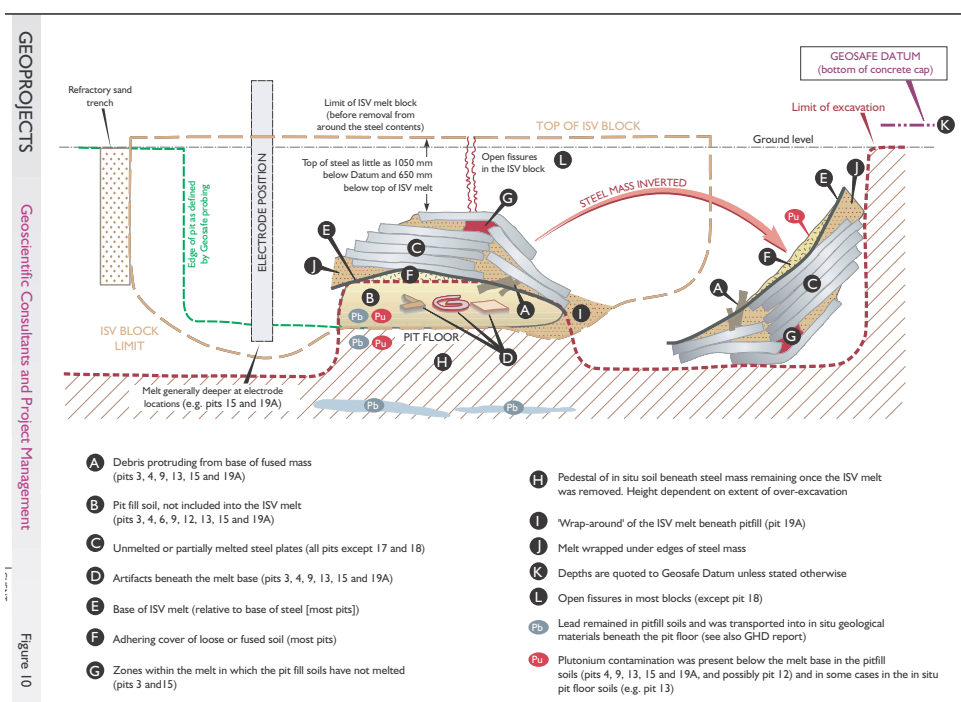
3.3.152



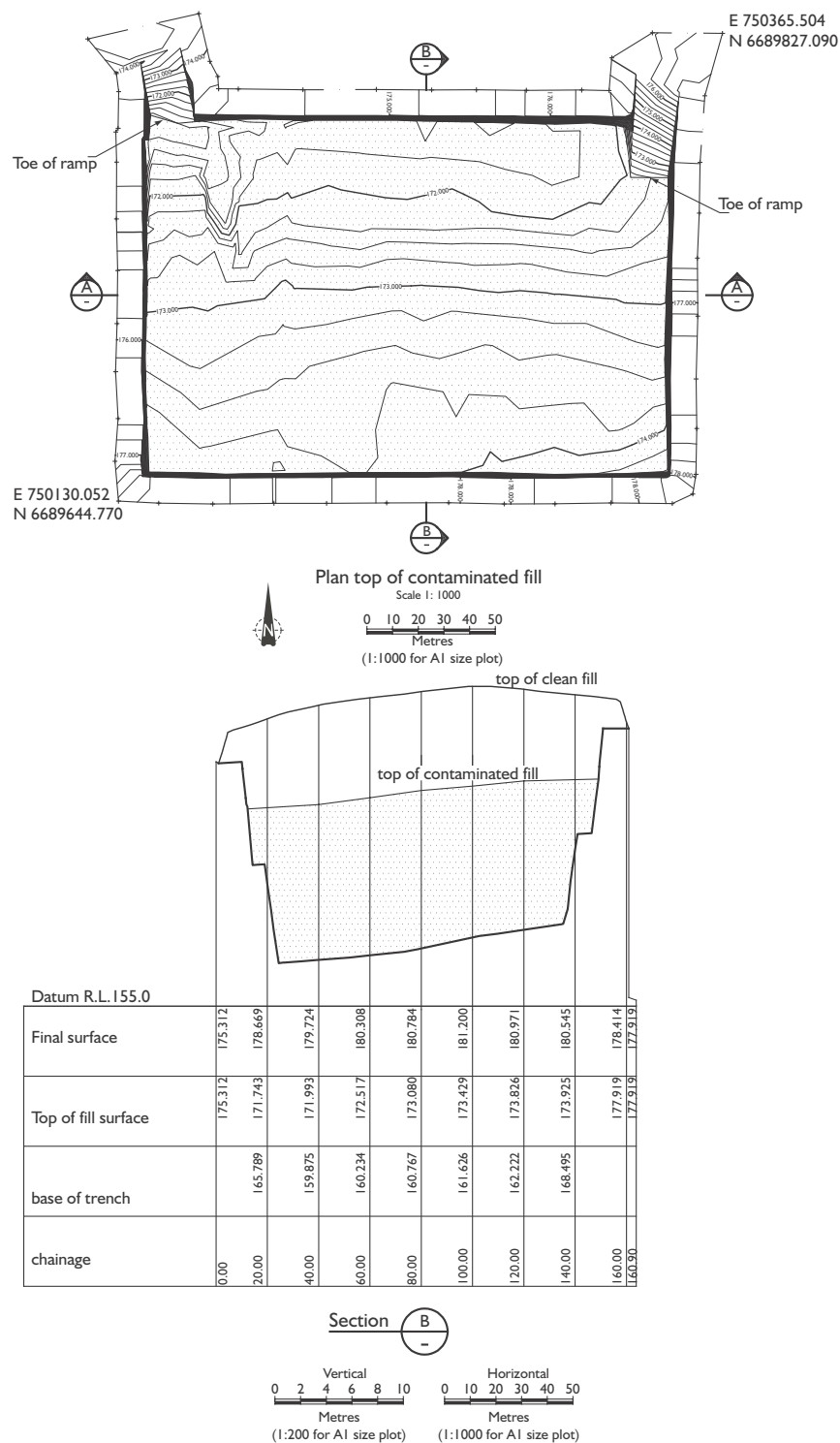
3.3.153 Specifications of soil removal and reburial (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



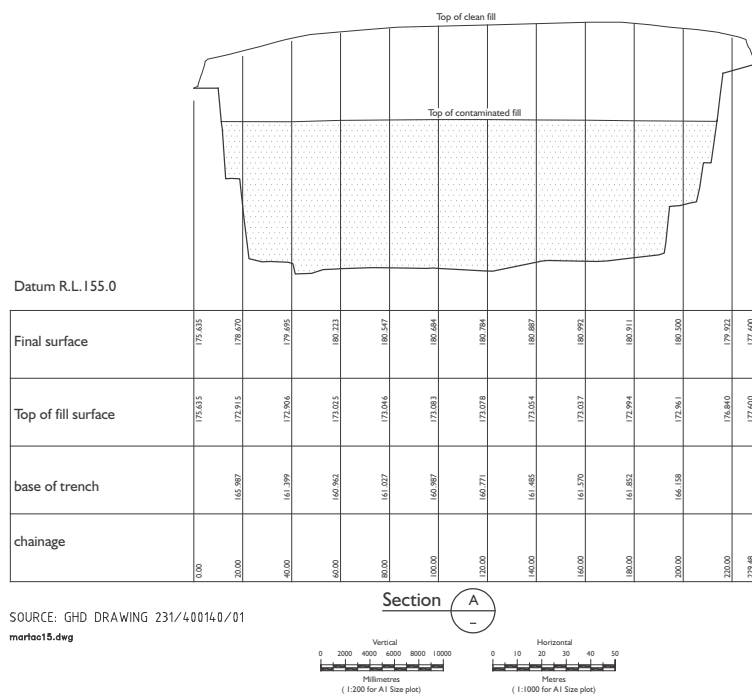
3.3.154 In situ vitrification block investigation and explanation (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



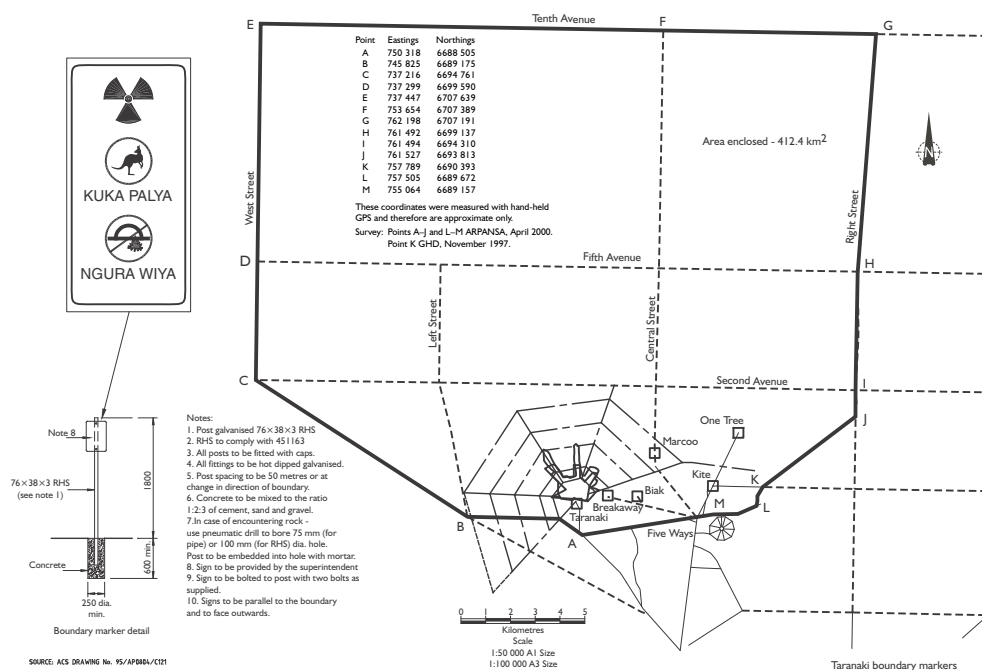
3.3.155 Taranaki soil burial trench as constructed (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



- 3.3.156 Longitudinal cross-section through the soil burial trench at Taranaki (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



- 3.3.157t Specification and location of radiation warning signs for people on foot (*Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee*)



FW 3.8 Burns, David. *Soil (Taranaki)*. 2018.



FW 3.7 Burns, David. *Monument (Taranaki Soil Burial Trench)*. 2018.



FW 3.9 Burns, David. *Monument (Taranaki Ground Zero)*. 2018.



FW 3.10 Burns, David. *Monument (Taranaki Plinth)*. 2018.



FW 3.11 Burns, David. *Monument (Two Trenches)*. 2018.



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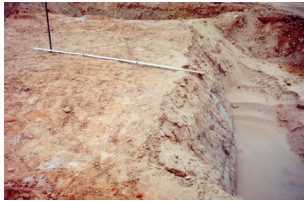


3.3.174



3.3.173-174 - The Soil Burial Trench under construction, ca. 1996-1998. (Robin Matthews)

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Figure 2. Aerial view of Taranaki after removal of contaminated soil

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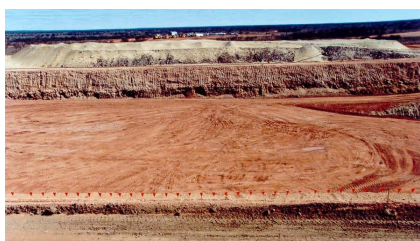
3.3.189



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3.3.189-192 - The Soil Burial Trench under construction, ca. 1996-1998. (Robin Matthews)

3.3.193



A detailed photograph of the Soil Burial Trench construction, in the foreground is the watering system used to minimise dust and airborne particle transfer, ca. 1996-1998. (Robin Matthews)

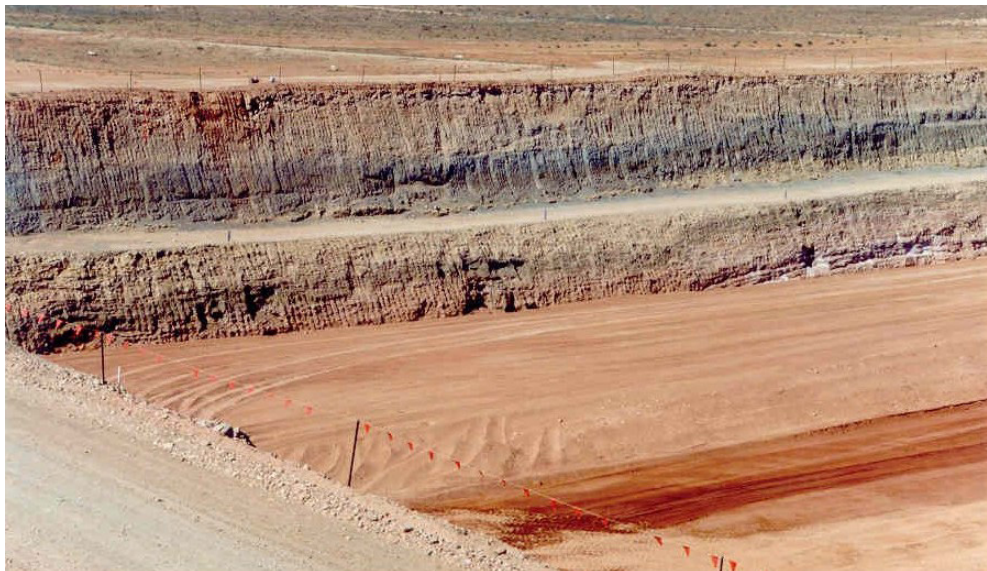
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3.3.194-198 - Soil Burial Trench construction, ca. 1996-1998. (Robin Matthews)

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3.3.200-209 - The ISV hoods in construction and operation, ca. 1996-1998. (Robin Matthews)

3.3.210 ISV hood from above, ca. 1996-1998. (Robin Matthews)



3.3.211



3.3.212 ISV hood from above, ca. 1996-1998. (Robin Matthews)



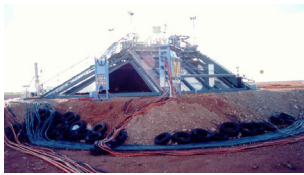
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3.3.214-222 - In progress status of the remediation and a detailed image of the in-situ vitrification process, ca. 1996-1998. (Robin Matthews)

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3.3.245-246 - Images of the terrain following remediation and replanting/reseeding, ca. 2000. (Robin Matthews)

PART 4.0: "SO OUR FUTURE WAS BROKEN."

4.001 Mervyn Day

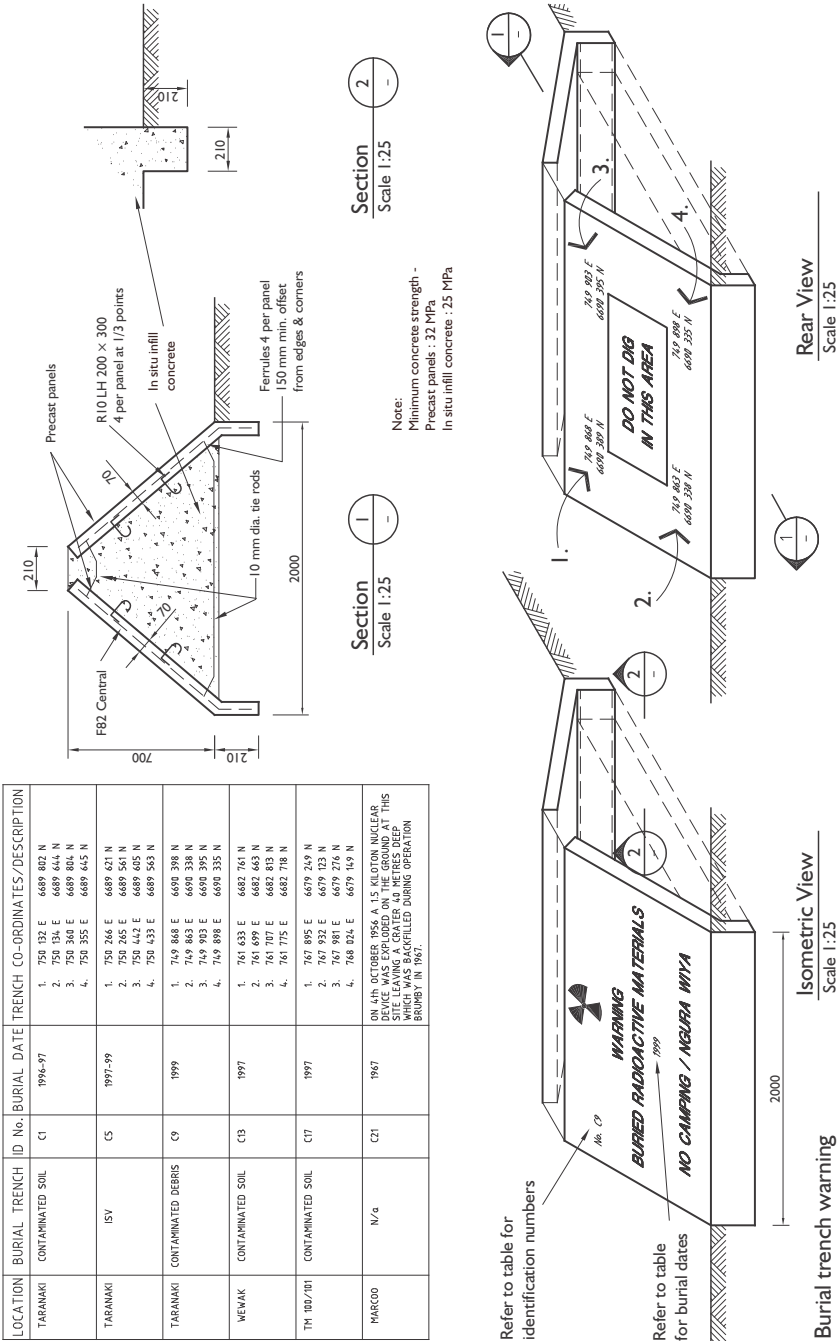


4.002 Mervyn Day



4.001-002 - Stills from "Secrets in the Sands" BBC/Discovery Channel, 1991.

4.003 Specifications for the concrete warning plinths (Rehabilitation of Former Nuclear Test Sites at Emu and Maralinga (Australia) 2003, Report by the Maralinga Rehabilitation Technical Advisory Committee)



SOURCE: GHD DRAWING No. 231/100140/14

