# A scientific expedition for a rendezvous with Venus

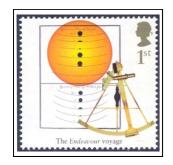
3a

## In search of the unknown Great Southern Continent postulated by Ptolemy

{1} Cook and Charles Green observed the transit using a reflecting telescope placed on a barrel.

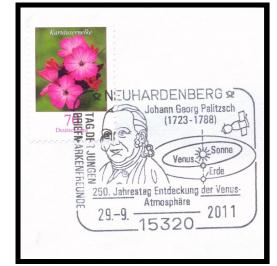


{2} An optical effect made it impossible to time the internal contacts accurately. It was the "black drop effect" which appear as if the Venus's disc is connected to the inner limb of the Sun.

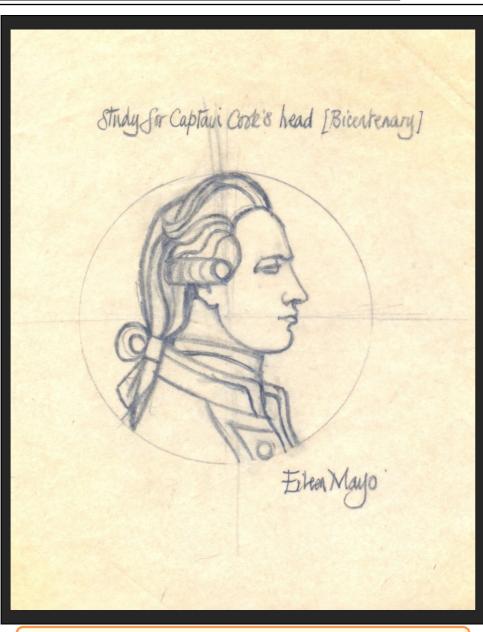


drawing of observations published by Cook

{3} The athmosphere of Venus, discovered during the Transit in 1761, was initially thought to be the explanation for the optical effect...

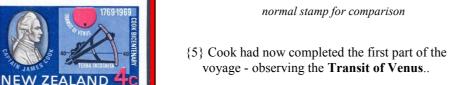


{4} .but "limb darkening" may be a more likely factor. It is an optical effect in which the **limb** of the Sun appear darker than the central part of the Sun's disc.



Original artwork, in pencil on art paper. Signed by the artist Dame Eileen Mayo (1906-94). Probably unique. "Study for Captain Cook's head" New Zealand bicentenary issue 1969.



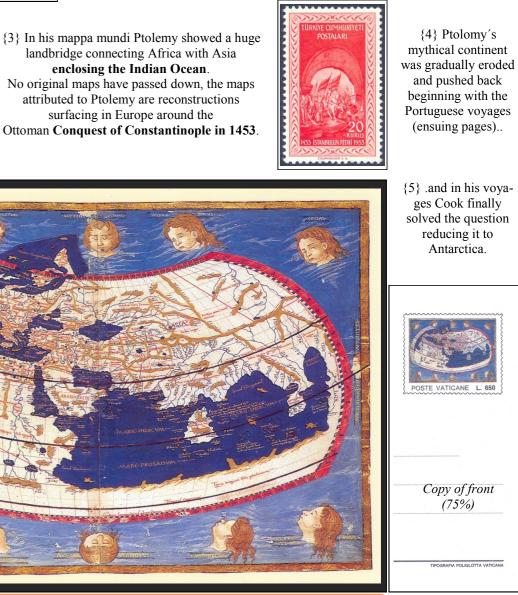


{6} .and according to his secret orders he was now to sail south to the 40th parallel for the secundary aim finding and exploring the Terra Incognita was it found to exist.

NEW ZEALAND







Postal stationery; postal card. World Map c1480 featuring Terra Australis Incognita (based on Ptolemy). 1991



{1} According to the Continental Drift theory by Wegener (1880-1930) Pangaea (left) was a solitary megacontinent in an ocean covering more than two-thirds of the Earth. Some time around 260 million years ago rifts opened creating Laurasia to the north and the superkontinent Gondwana, to the south. Gondwana would break apart to become South America, Africa, India, Antarctica and Australia.

{2} However the myth of the Great Southern Continent was based on the work of the astronomer and cartographer Claudius Ptolemy (c90-168) working in Alexandria, Egypt in the second century AD. His Mappa Mundi was based partly on knowledge and partly on conjecture believing that the continents in the Northern Hemisphere had to be balanced by a large land mass in the Southern Hemisphere for Earth not to flip over.

Imperf pair with slight colour-

shift. A sheet of 100 is known

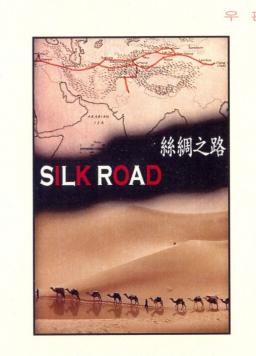
to exist.

33



Marco Polo and the beginning of the quest for the southern continent





Postal stationery; postal card. South Korea 2011



Registered cover to New York. Backstamped transit cds Venezia 8.7.54, Genova 9.7.54 and arrival cds New York July 21 1954.



{1} Marco Polo (1254-1324) was a Venetian merchant, explorer and writer believed to have travelled overland to Cathay (China) on what was known as the Silk Road.

{2} In 1271 he **left Venice** with his father and uncle for a journey that lasted 24 years.

Left illustration from c1400 showing the embarkation from Venice. (Bodleian Library, Oxford)



{3} Marco Polo's journal with reports on the riches and splendor of the East was by most European scholars misread as confirmation that he had visited the Southern Land, and moreover, that it was rich in gold and spices.

"View of an ancient city in Cathay"





우 편 엽 서 2011.6. 보내는 사람 0 3 0 받는 사람 30 - 0 4 8

Postal stationery; registered envelope. Registration fee 6c + 15c covering the rate to London

### {4} Spices like nutmeg and vanilla were coveted.

{5} Marco Polo's travel may ultimately have influenced European cartography leading to the voyages of exploration a century or two later.



In search of the unknown Great Southern Continent that receded as discoveries were being made

Henry the Navigator and his mariners proved that Africa was not joined to a Southern Continent







{7} The cape was named Cabo das Tormentas (Cape of Storms) but later changed to Cabo de Boa Esperanca (Cape of Good Hope).

{8} Africa was shown not to be



## The caravels and a sea route to India

{1} Developed from the barques (barca) used on rivers and in coastal waters a caravel was a ship with three masts bearing lateen rig (triangular sail), highly maneuverable and not wholly at the mercy of the winds.



{2} The caravel had a square stern..

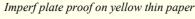


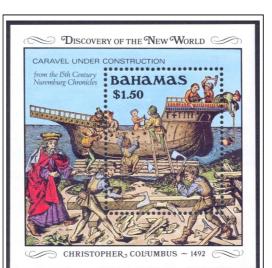


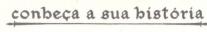
{3} .and was carvel-built, meaning that the planks were placed edge to edge. The carvel construction meant a heavier and more rigid hull.









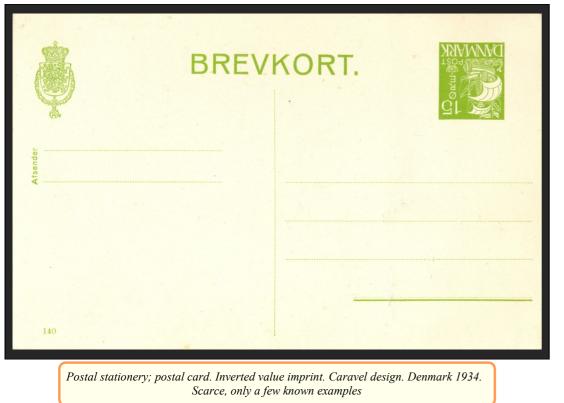




VASCO DA GAMA CHEGA À ÍNDIA Saido de Lisboa a 8 de Julho de 1497, após uma viagem acidentada e dificil, Vasco da Gama, a 20 de Maio do ano seguinte, fundeia em Calecute. Assim cumpre as ordens de Dom Manuel I, continuador da empresa grandiosa do Infante Navegador e de Dom João II. A descoberta do ca-minho marítimo para a India marca uma data saliente na História Universal.

Postal stationery; postal card. 1957

{7} The new technology meant heavier and more rigid hulls, and so bigger ships could be built. Bigger and more maneuverable ships made long ocean voyages possible.



{4} Towards the end of the 15th century the larger vessels had a sterncastle ...

{5} .and a square-rigged foremast.

{6} The rear masts still bearing triangular sails.

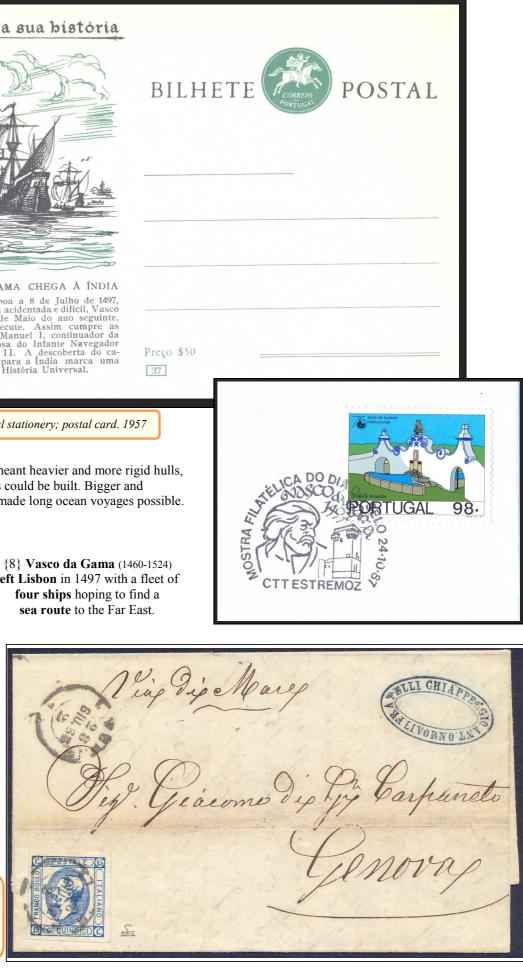


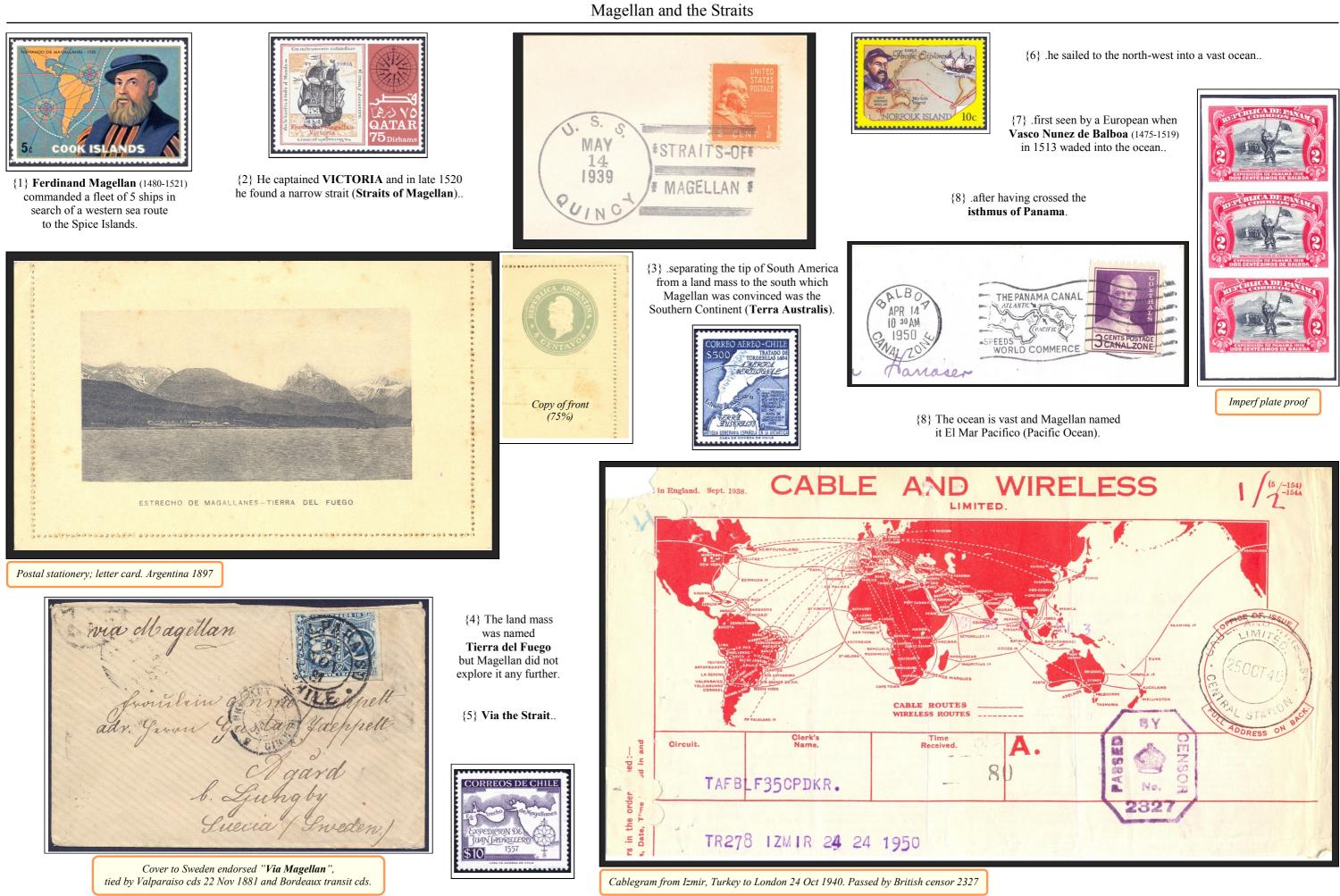
{9} In 1498 he reached Calicut in India.



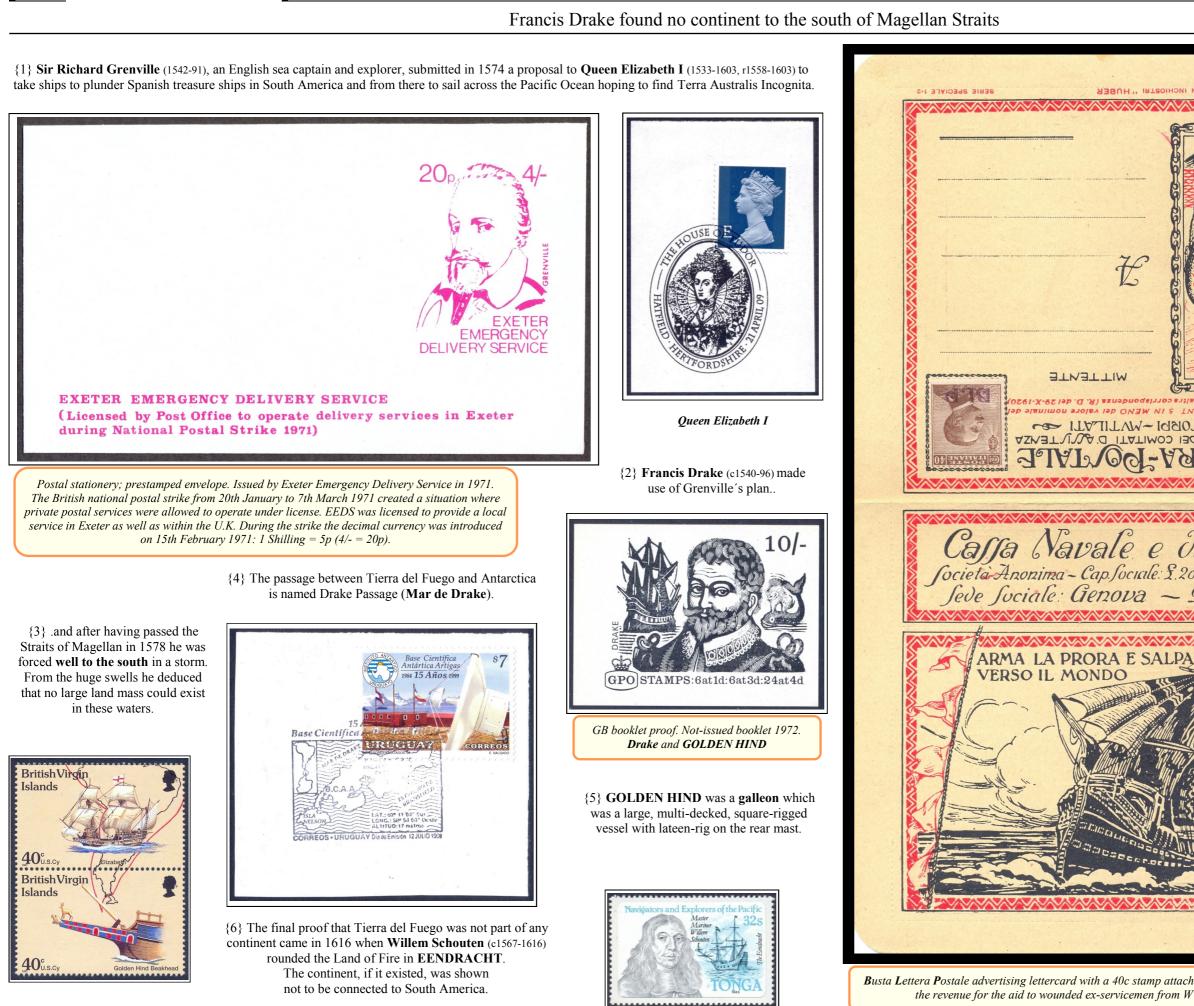
Entire to Genova endorsed "Via di Mare". Tied by Livorno cds 28 Jun 1863 backstamped Genova arrival cds 29 Jun 1863.

left Lisbon in 1497 with a fleet of four ships hoping to find a





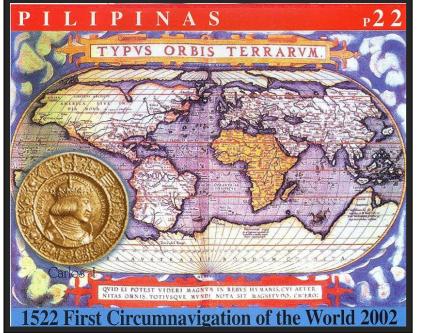
3b





Busta Lettera Postale advertising lettercard with a 40c stamp attached overprinted B.L.P. Italy 1921-23. Sold below face value, the revenue for the aid to wounded ex-servicemen from WW1 came from the advertisers. Depicts a galleon

## New Holland (Australia) discovered but the eastern seaboard remained unknown



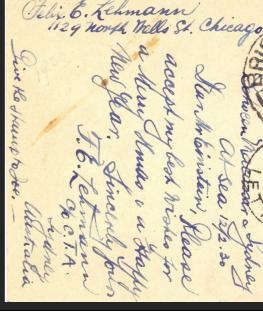
{1} In the late 16th century mapmakers still depicted the Southern Continent as a huge landmass extending north towards New Guinea.

{2} The Dutch mariner Willem Janszoon (c1570-c1630) made the first known European visit to this body of land in 1606 in DUYFKEN ("Little Dove")..



{3} .and ten years later Dirk Hartog (1580-1621) visited the western coast of this huge landmass. His ship was the EENDRACHT.





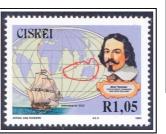


Antwerp 1581.

Map by Abraham Ortelius (1527-98),

{4} Later the western coast was visited by others, some less fortunate. Abrolhos was a word used by Portuguese sailors to refer to dangerous offshore reefs.

{5} Niuew Holland (New Holland) was the European name applied to this part of the Southern Continent (now mainland Australia) by Abel Tasman (1603-59), a Dutch explorer. In 1642 he sailed along the southern coast and made a short landing. He showed that New Holland was an island, albeit huge, and not part of a Pole-encircling **Terra Australis Nondum Cognita** (Land Southern not yet known). The eastern seaboard was still unknown.



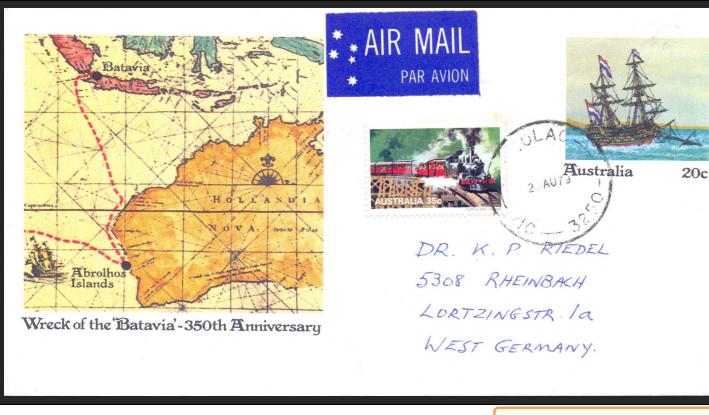


Experimental separations perf 12, by Walch & Sons. Ex "Besancon"(II).

letter card. 1918.

Postal stationery:

[6] Tasman named his landing site Van Diemen's Land after his sponsor Anthony van Diemen, Governor of the Dutch East Indies. Tasman did not explore it any further, perhaps because overseas trade was more important to the Dutch than exploration?



Postal stationery; prestamped envelope.

KONINKLIJKE PAKETVAART MAATSCHAPPIJ GROYAL PACKET NAVIGATION CY.) Carte Po IT WW HIDILAND U.S.a Loose (ship) letter to Chicago, USA. Posted at sea between Macassar (Indonesia) and Sydney Feb 12 1930,

tied by (faint) SS Niuew Holland mark and Brisbane cds Feb 20 1930. Postage 10ct = the UPU card rate from 1 Jan 1929 to 31 Oct 1937. Postage is correct. "SS Nieuw Holland" was a KPM (Koninklijke Paketvaart Mij) fraight- and passenger ship operating a regular service between Malaya and Australia from 1928 until the outbreak of WW2.



{7} Tasman never realised he had discovered an island and not a continent.

{8} The island was later renamed Tasmania.





New Zealand before Cook's arrival



In the South Seas Cook rediscovers New Zealand

Cook was the first European to set foot on New Zealand soil in 1769



Unadopted essay in black ink on thin card by L.C. Mitchell for the 2<sup>1</sup>/<sub>2</sub>d stamp from the New Zealand 1940 Centennial issue. Shows ENDEAVOUR, Cook's map of New Zealand on a globe and James Cook. Nineteen artists were invited to enter the competition for this issue; the accepted essay and issued stamp with 1d face value are displayed on p.56.

{1} Cook heads south and soon rediscovers the land that no Europeans had visited for the past 127 years. Actually he was the first European to set foot on New Zealand soil.



*{2} Cook landed in 1769 and the* 3d stamp from the 1906 Christchurch Exhibition issue purports to depict "Landing of Cook" but the reception was rather violent with several Maori killed. So this must show a different landing at a later stage (probably at Tolaga Bay, p.23). Also it is rather unlikely that the Maori chief would have shaken hands - not a Maori custom!

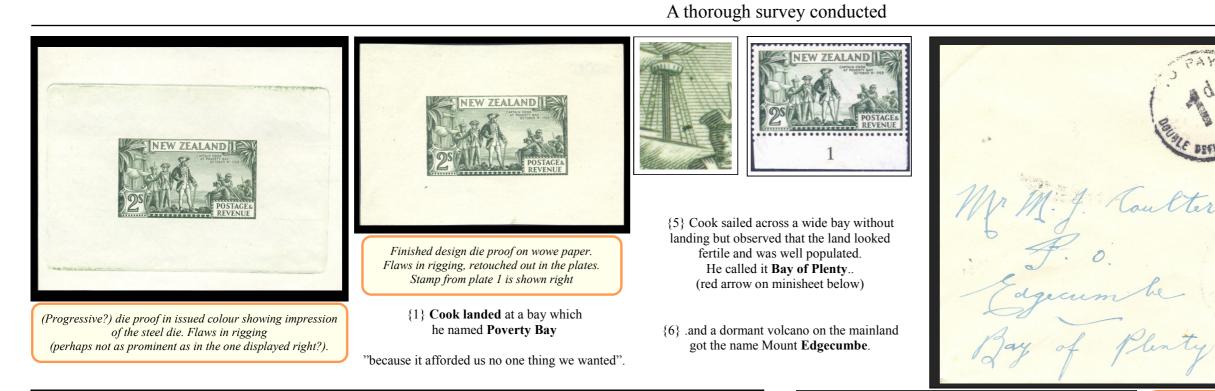


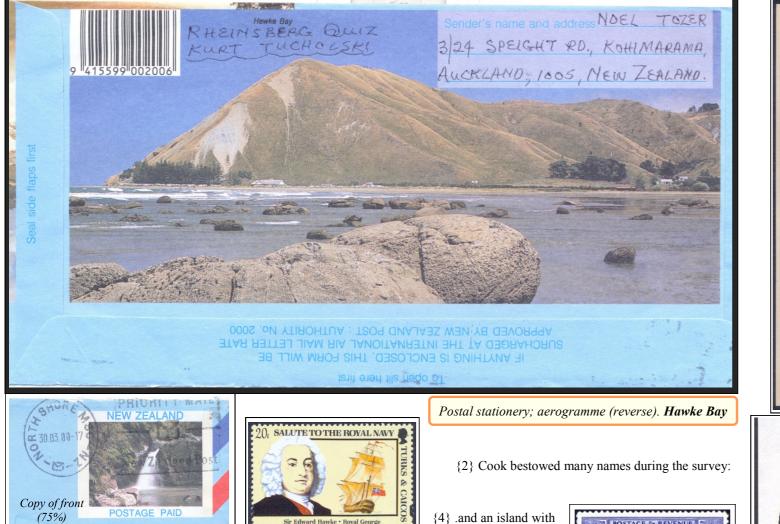
Plate proof in mono-colour brown. Slightly smaller than suggested issue (below).



.as issued

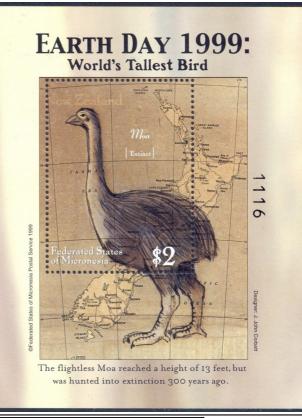
{3} Cook was to conduct a thorough survey in the ensuing months, and he discovered that it was not the Southern Continent but two large islands separated by a strait.



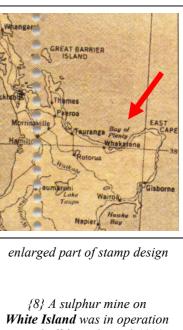


- {3} To the south of Poverty Bay a large bay was named Hawke Bay after Sir Edward Hawke (1705-81), First Lord of the Admiralty (1766-71)...
- a hole got the name Piercy Island after rear admiral Piercy Brett (1709-81).





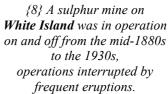




{9} In November 1769 Cook sailed into a bay to observe a transit of Mercury, hence named Mercury Bay. A small seaside town in Mercury Bay is named Cooks Beach.



Postage Due cover to Edgecumbe, tied by Whakatane cds 27 June 1932. Postage <sup>1</sup>/<sub>2</sub>d (letter rate was 1d from 1 June 1932 to 30 Sept 1939). 1d (double deficient postage) To Pay cachet. Id stamp affixed and endorsed PD as postage due stamp not available; tied by Edgecumbe cds 28 June 1932.





{7} An island 30 miles off the coast was named White Island because of dense clouds of white steam from a volcano.



White Island cds. Post office in use Aug 1 1927 to Dec 22 1930.



## A thorough survey conducted and names bestowed

To M- Charles Roberts Panmare Whangapara July 12" of Tui is the Maori name for the prosthemadera novaeseelandiae, an endemic bird of the honeyeater family. address Mr Charles Roberts Panmine Tui manuscript cancel 22/01/09 3 days after opening of post office. Only recorded example Pigeongram, the Great Barrier Pigeongram Service 1904. Message sent from Wangapara to Panmure in Auckland (North Island); a distance of about 65 miles. In 1908 telegraphic communications were installed and so the pigeongram service was discontinued. {1} Great Barrier Island was named by Cook. Tui was a railway construction camp for the Nelson railway line between Nelson and Glenhope. The railway was in operation \*\*\*\*\*\*\*\*\*\*\* between 1876 and 1955. {2} The cabbage tree NEW ZEALAND A post office opened Jan 19 1909 (Cordyline australis) and closed Sept 30 1947. was endemic to New Zealand. It was collected by Personalised stamp. Pete's Post started in June Banks and Solander. 1998 for delivery of mail between New Plymouth {4} A peaked mountain got the name and Bell Block. Depicts politician Len Jury and his Mount Egmont in honour of wife, and in the background Sugar Loafs (named John Perceval (1711-70), 2nd Earl of Egmont. Perforation error, left stamp imperf at selvedge. by Cook 13th January 1770) off New Plymouth. Near Ada Received your. NEW ZEALAND P-6+ was so pleased to hear tras teres not that that the saw your later the saw correspondences CARD and the had anchar ALL HAR Johnson No. 5000 Address. renteng hme No. 588 thenner. 1 50 perned of the Upper Albert . St. J's Jone 10 - Upper Albert . St. J'hamed. lovely \* I had a Have arrived in Safety but: 2 a porching Safety but: 2 a porching Safety but: 2 a porching Si cross filting cheets in Copy of front (7.5%) get to Bus all m ghe an Cabbage Bay is a small town named in reference to the cabbage trees in the bay. In 1922 Cabbage Bay was changed to Colville named after Cape Colville (named by Cook on Nov 18th 1769). Postal stationery; postal card. Used to Nelson 1903. Issued 1897 for domestic use and for The post office in Cabbage Bay was in use from 1.1.1883 to 1.3.1922. the Australian colonies. Mt Egmont and Mt Cook (upper left)

# {3} The botanists discovered new bird species.





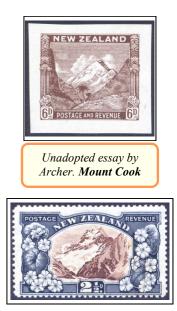
Tui cds, first day of usage. Three recorded examples





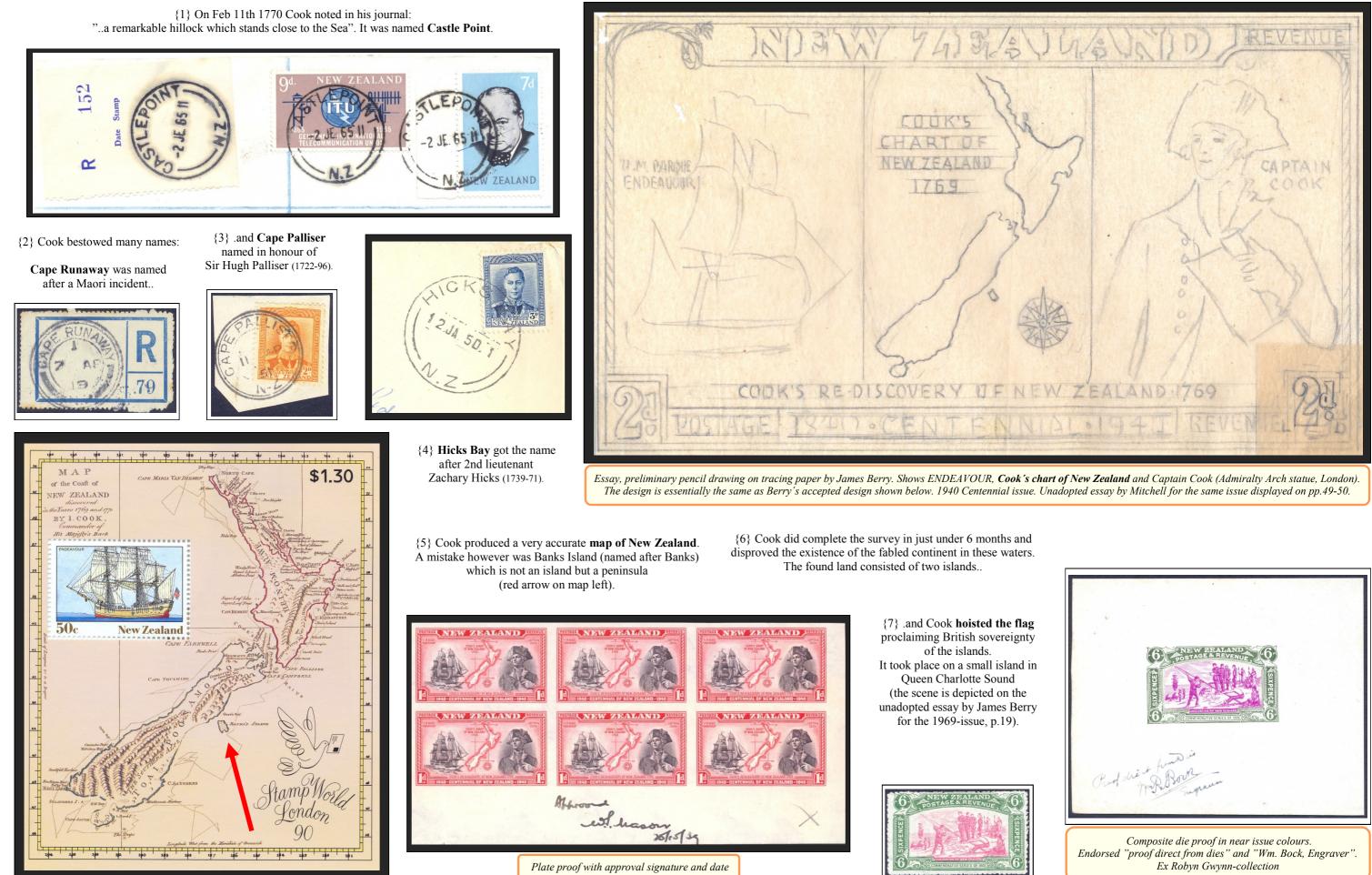


{5} Aoraki/Mount Cook. In 1851 the English name was given in honour of James Cook. Cook did not sight Mount Cook.



as issued

A thorough survey completed and sovereignty proclaimed





## Landing at Botany Bay







## A close call and Australia's east coast was claimed

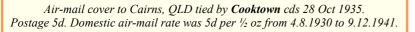
{1} Suddenly ENDEAVOUR struck a reef but could be laid on shore for repair.

"A view of the Endeavour River, where the ship was laid on shore, in order to repair the damage which she received on the rock" based on a drawing by Parkinson

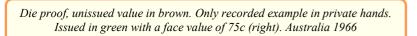


{2} A settlement began in 1873 near the Endeavour River. The town was named Cooks-town but later changed to Cooktown.











- {3} Cook had surveyed the eastern coast of New Holland.
- {4} .and he took possession..





{6} Cook produced a chart of the east coast of Australia. In the portrait by Dance-Holland (pp.123-126) Cook is seen holding the chart in his right hand pointing at New South Wales.



{7} New South Wales is since 1901 a state in south eastern Australia.



Colour trial plate proof, black



Colour trial plate proof, red

Imperf, red-brown 1899. Rare

Colour trial plate proof





red-orange



Registered cover from Sydney to USA. Tied by Registered Sydney cds 8 Dec 1906 and large R in vertical oval mark. Postage  $5\frac{1}{2}d =$ foreign letter rate  $2\frac{1}{2}d$  per 1 oz (in force 1 Mar 1901 - 28 Oct 1918) + 3d registration fee.

{8} To mark the centennial of the first settlement a stamp was issued in 1888 depicting the portrait of Cook adapted from a painting by Nathaniel Dance-Holland. The stamp was designed by Henry Barraclough and engraved by William Bell.



## Cook traversed Torres Strait on the way home



{1} In 1606 Luis de Torres (c1565-1607) captained the SAN PEDRO on an expedition to find the Southern Continent ...

 $\{2\}$  and he sailed along the southern coast of New Guinea showing it to be an **island** and not part of a continent.



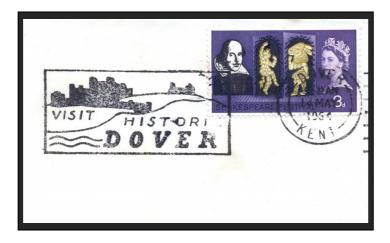


 $\{5\}$  and on the last leg of the voyage he anchored off St. Helena and later passed Ascension Island.





 $\{7\}$  and soon after the familiar sight of **Dover** was a welcomingsign that the voyage was coming to an end.



{8} All things considered, the voyage was a great success although, in his own words to his former employer (right), no major discoveries had been made. Cook had successfully observed the Venus Transit, put New Zealand on the map and charted the eastern seaboard of Australia. Cook had proved himself one of The Great Navigators of all time.

{3} The documents from the voyage lay hidden in Spanish archives for many years. The existence of a strait between New Guinea and New Holland (Australia) was still debated in the 18th century, and Cook decided to verify it on the way home by rounding the northern tip of Australia thereby proving the existence of the Torres Strait.





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51100 RHEIMS

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{4} After having traversed the Torres Strait

Cook touched at Batavia in Indonesia..

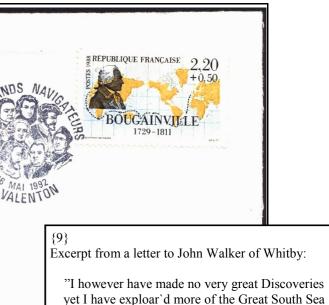
{6} Cook entered the English Channel...



Postage stamp booklet with copy of contents. 1969

63

Cover to London endorsed "via Torres Straits & Brindisi". Tied by Brisbane cds 9 Sep 1876 and a Q.L.-in-Rays cancel. Arrival cancel London Nov 6 1876. Postage 9d which was the single letter rate, in force 27 Dec 1870 to early 1881. Ex Beston



than all that have gone before me so much that little remains now to be done to have a thorough knowledge of that part of the Globe. I sayled from England as well provided for such a voyage as possible and a better ship for such a Service I never would wish for".

James Cook, 17t<sup>h</sup> Aug<sup>t</sup> 71