

**Presented at the FIG Regional Conference 2024,
14-16 November 2024 in Kathmandu, Nepal**

HOW SURVEYORS HAVE CHANGED THE WORLD PART II !

**After creating the atmosphere
it is stated in the Book of Genesis
of the Old Testament that:**

GENESIS 1:6

**God said: “Let there be an expanse
in the midst of the waters,
and let it divide the waters
from the waters.”**

**...And behold we have the first
subdivision with riparian limits!**

Then we have from:

PROVERBS 8:27-30

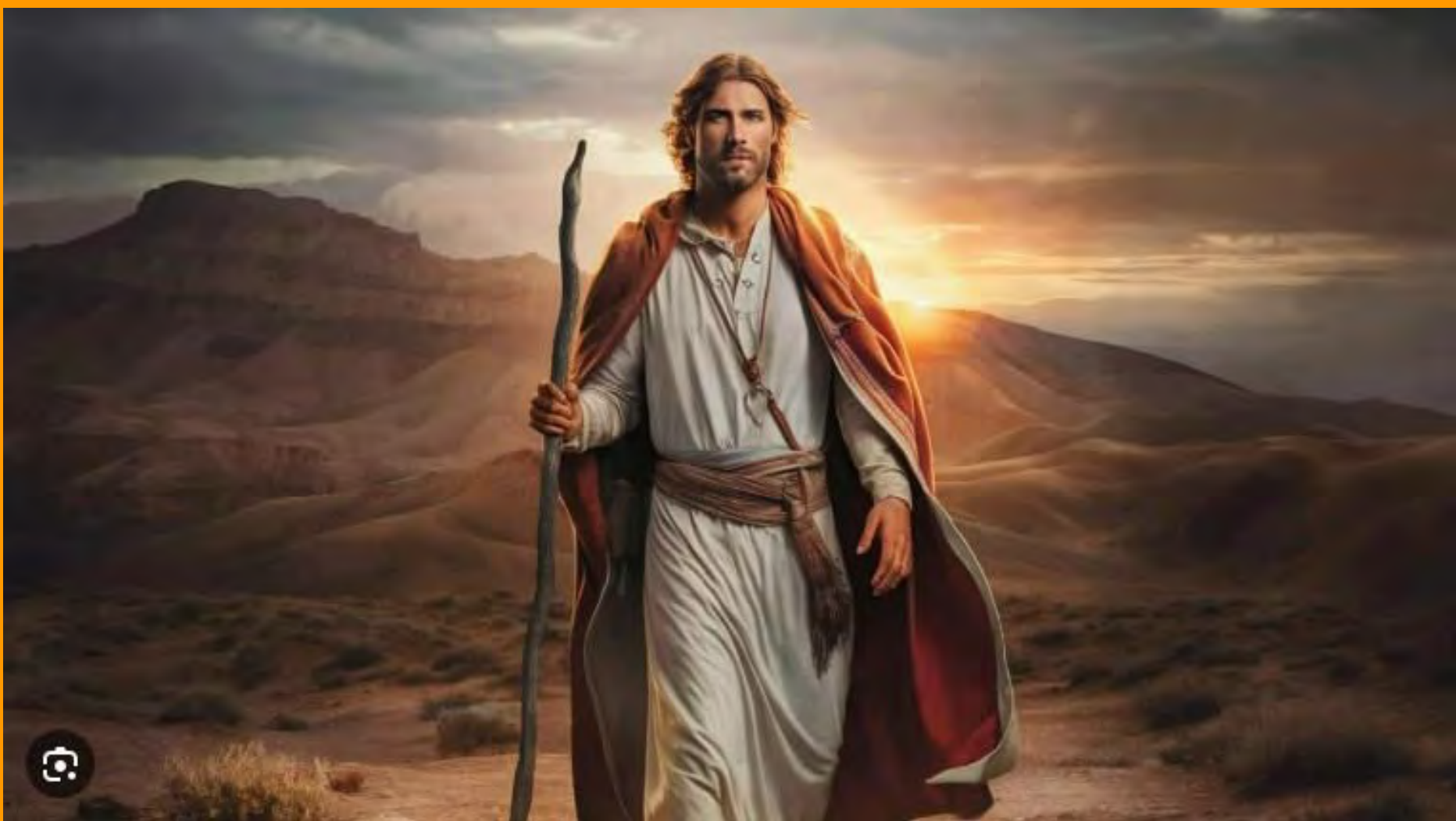
**“When He prepared the heavens,
I was there when he set a compass
upon the face of the depth ...”**



**GOD
MEASURES
THE WORLD
WITH A
COMPASS
IN A 13TH
CENTURY
ILLUMINATED
MANUSCRIPT**

CHARLTON HESTON AS MOSES IN THE TEN COMMANDMENTS





JOSHUA, GOD'S SURVEYOR FOR THE ISRAELITES AND THEIR OCCUPATION OF THE PROMISED LANDS.

APPOINT THREE MEN FROM EACH
TRIBE, AND I WILL SEND THEM OUT
TO SURVEY THE LAND AND MAP IT
OUT, ACCORDING TO THE
INHERITANCE OF EACH. THEN THEY
WILL RETURN TO ME

- JOSHUA 18:4

AMENHOTEP-SI-SE

KHAEMHAT

DJESERKARESENEB

MENNA



The Eupalinos tunnel

Samos, Greece.

**BUILT FROM
540-530 BC**

Year 530 BC.

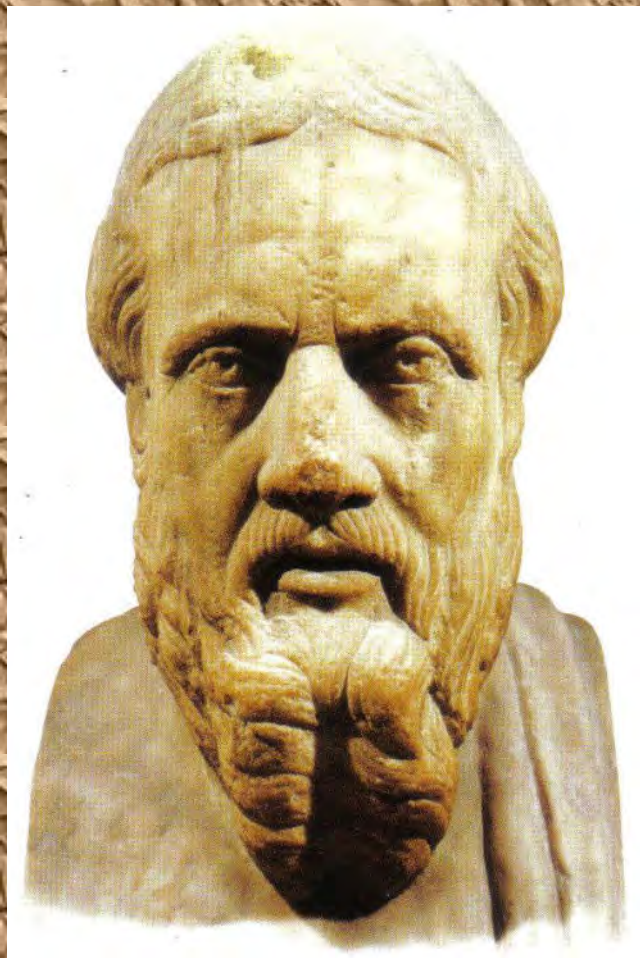
A 1036 m. long tunnel dug through a mountain from both ends simultaneously.





GrKoulouriotis

TUNNEL OF EUPALINOS TODAY



THE FAMED GREEK
HISTORIAN
HERODOTUS
CALLED THIS FEAT
THE GREATEST IN
THE TIMES OF
ANTIQUITY.

MAPPA MUNDI

THE HEREFORD WORLD MAP

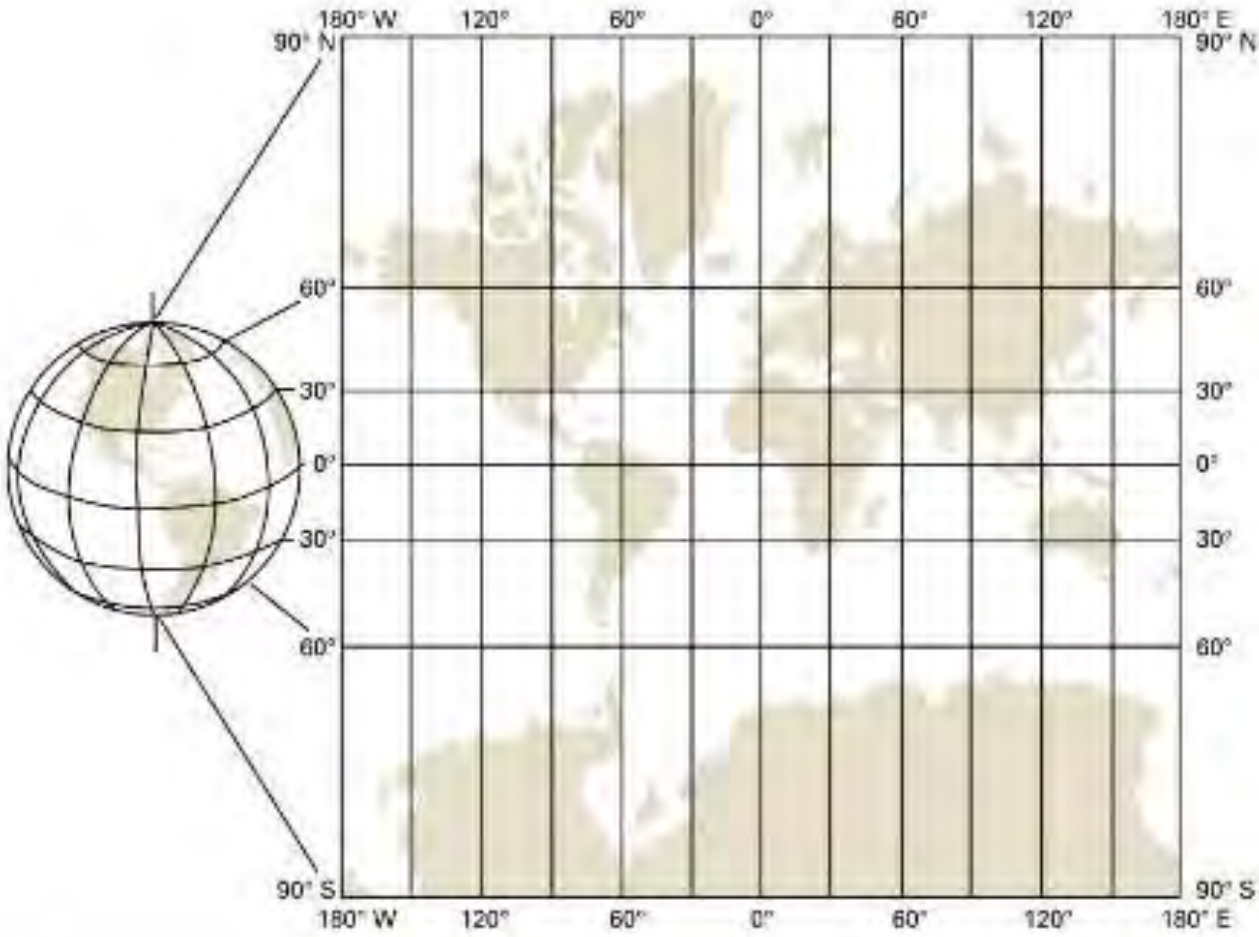


**THE HEREFORD
MAPPA MUNDI
WAS PAINTED IN
c.1290 BY
RICHARD DE
BELLO. IT
SHOWS CAESAR
ORDERING FOUR
SURVEYORS TO
GO OUT AND
“SURVEY THE
WORLD!”**



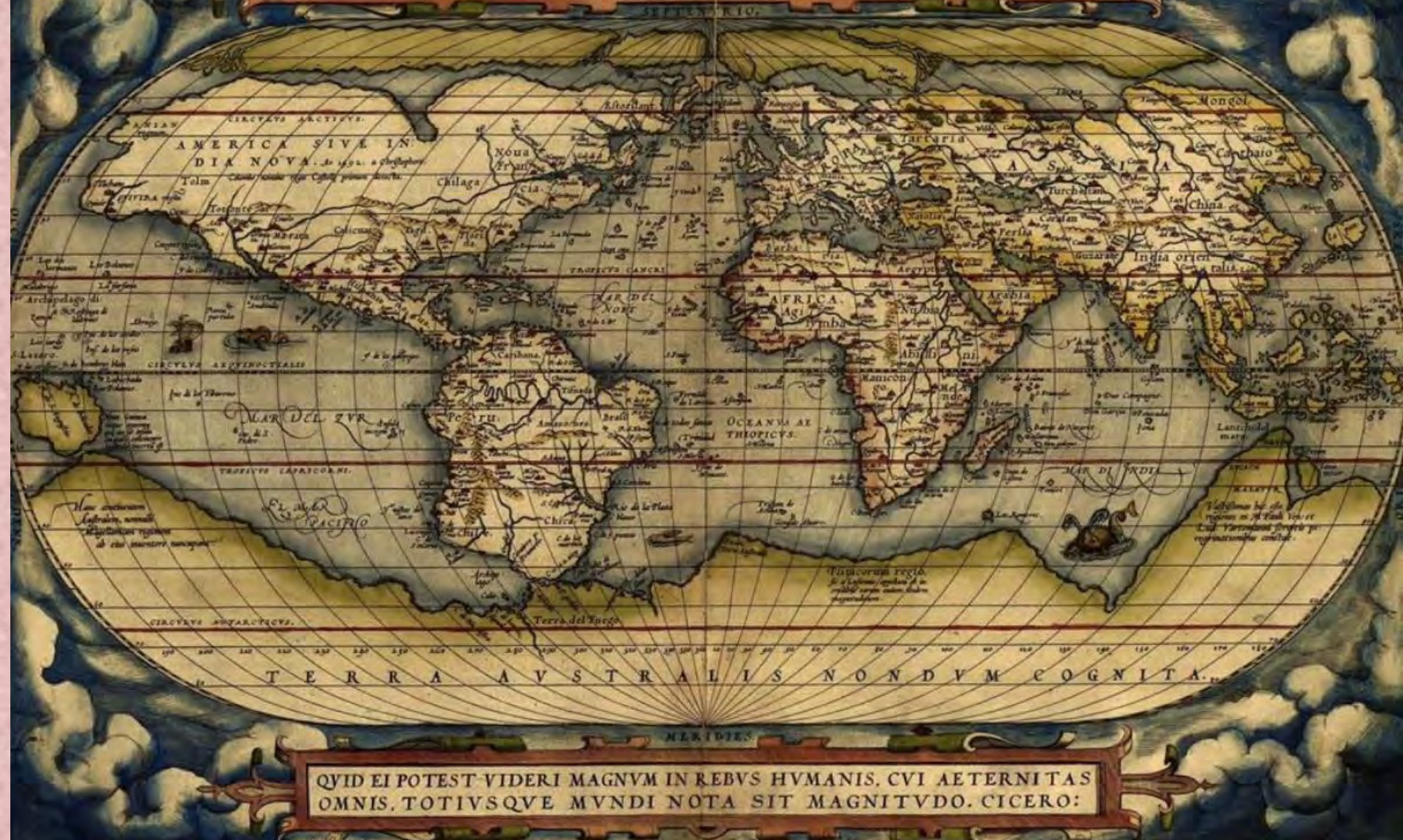
**FOUR ROMAN SURVEYORS:
NICHODOXUS - EAST; THEODOCUS –
NORTH :POLICLITUS – SOUTH;
& DIDYMUS - WEST (NOT PICTURED?)**

MERCATOR PROJECTION

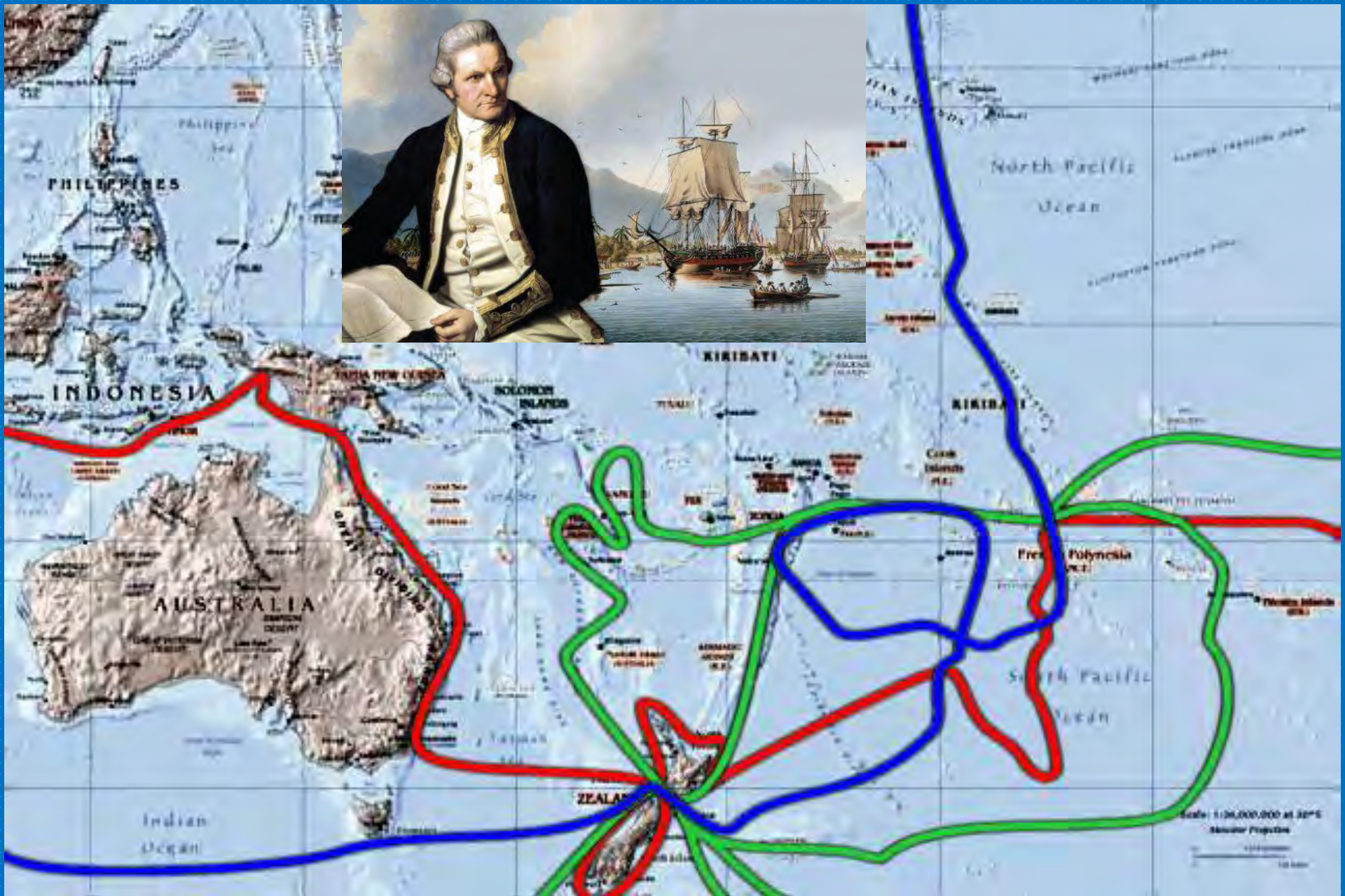


**GERHARD
MERCATOR**

TYPVS ORBIS TERRARVM.



1869 MERCATOR "TYPUS ORBIS TERRARUM"



ROUTE OF COOK'S 3 WORLD JOURNEYS



**CAPTAIN
JAMES KIRK**



**CAPTAIN
JAMES COOK**



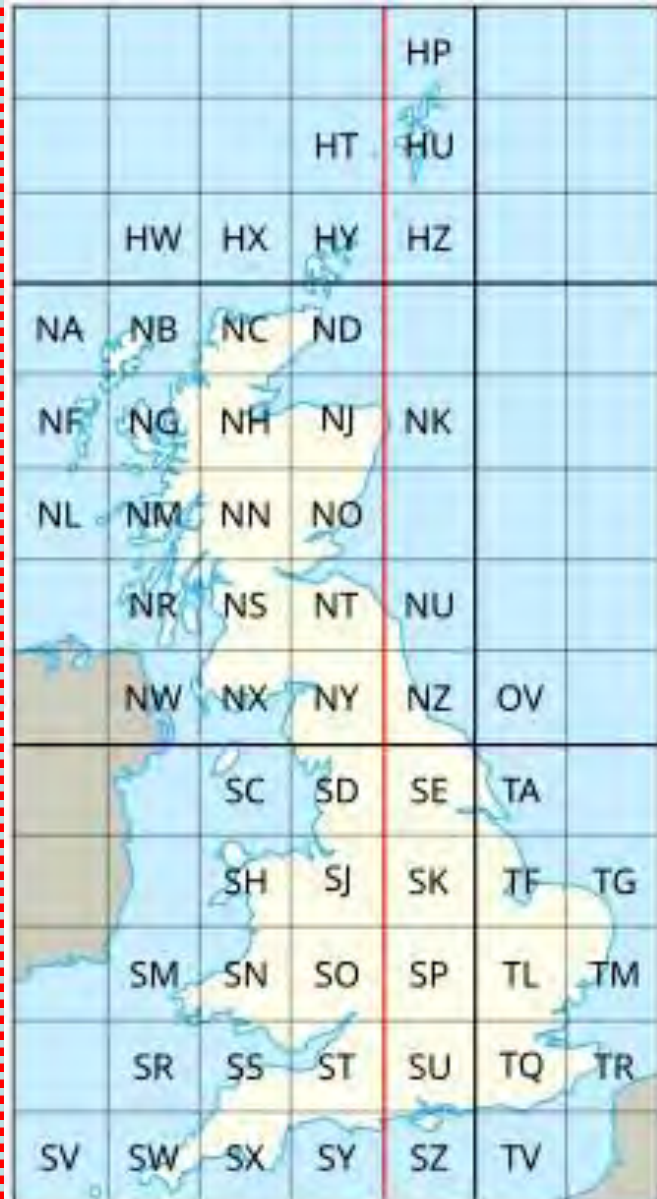
GENE RODDENBERRY


**MISSION OF THE ENTERPRISE:
TO BOLDLY GO WHERE
NO MAN HAS GONE BEFORE!**



**WILLIAM
ROY**

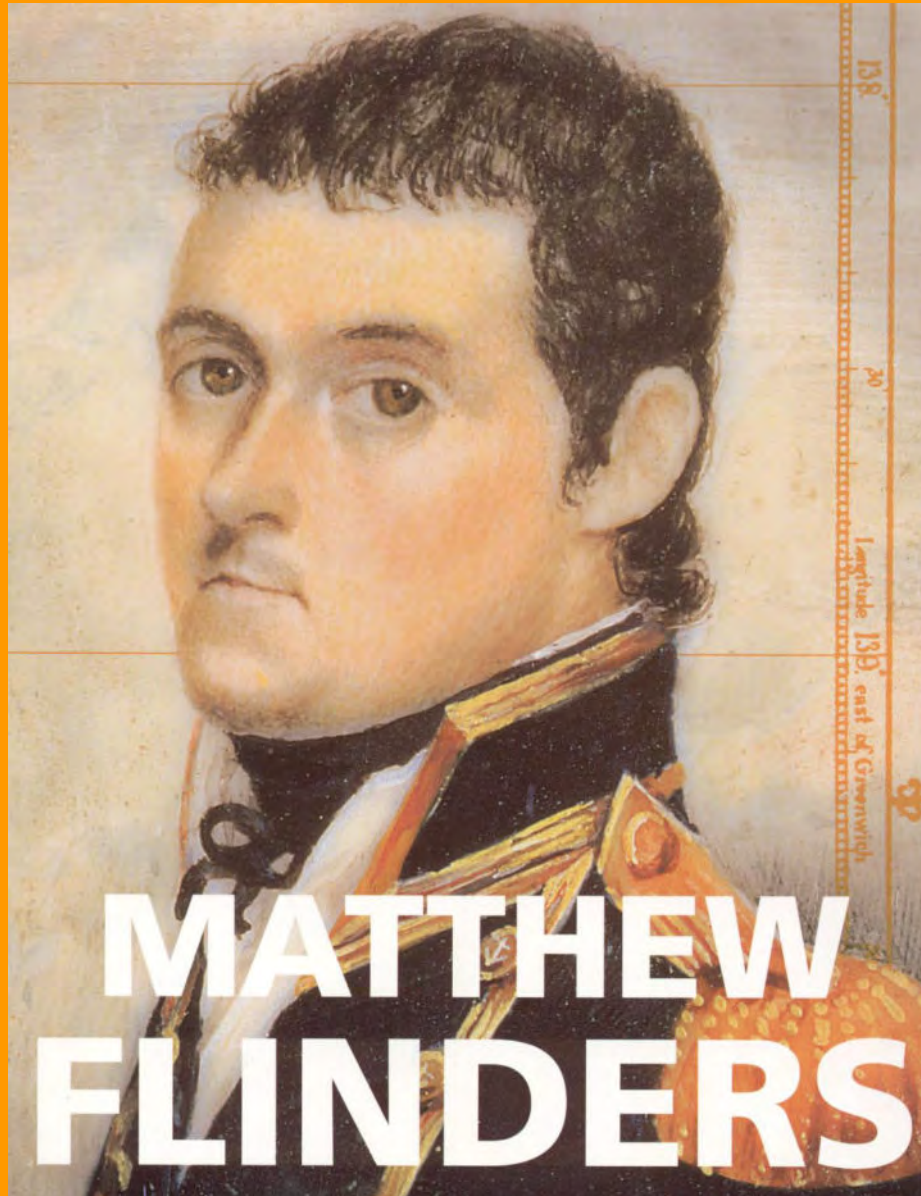




Squares of the grid system. 
 The red line is the central (2° W) meridian.

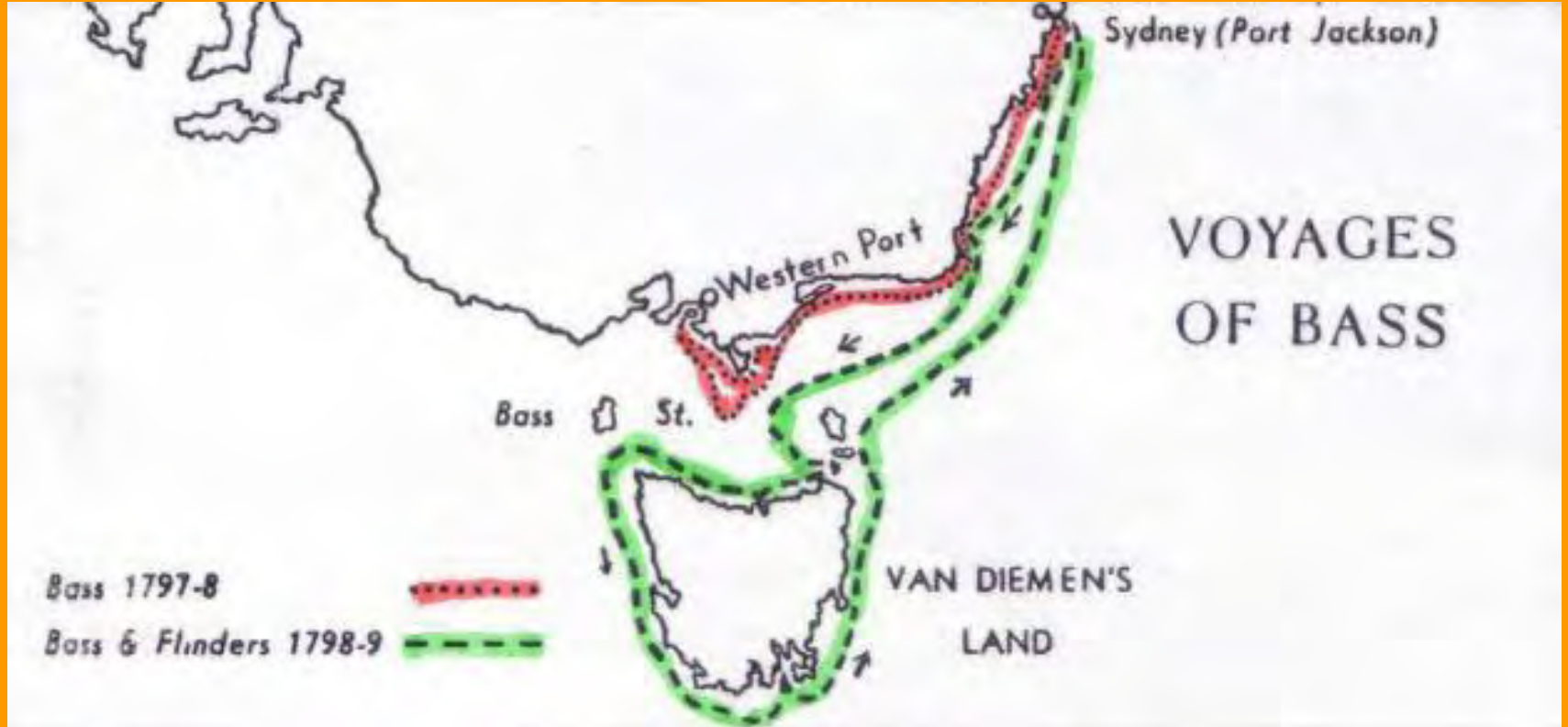
THE ADJOINING CHART SHOWS THE GRID SYSTEM OF THE MAPS OF THE BRITISH ORDNANCE SURVEY NETWORK. THE RED LINE IS THE CENTRAL MERIDIAN (2° W).

Matthew Flinders





GEORGE BASS AND MATTHEW FLINDERS CIRCUMNAVIGATED VAN DIEMAN'S LAND BETWEEN 7 OCT 1798 & 11 JANUARY 1799 IN THE SLOOP *NORFOLK*





LUNGAAR
A Native of the Island of Van Diemen's Land

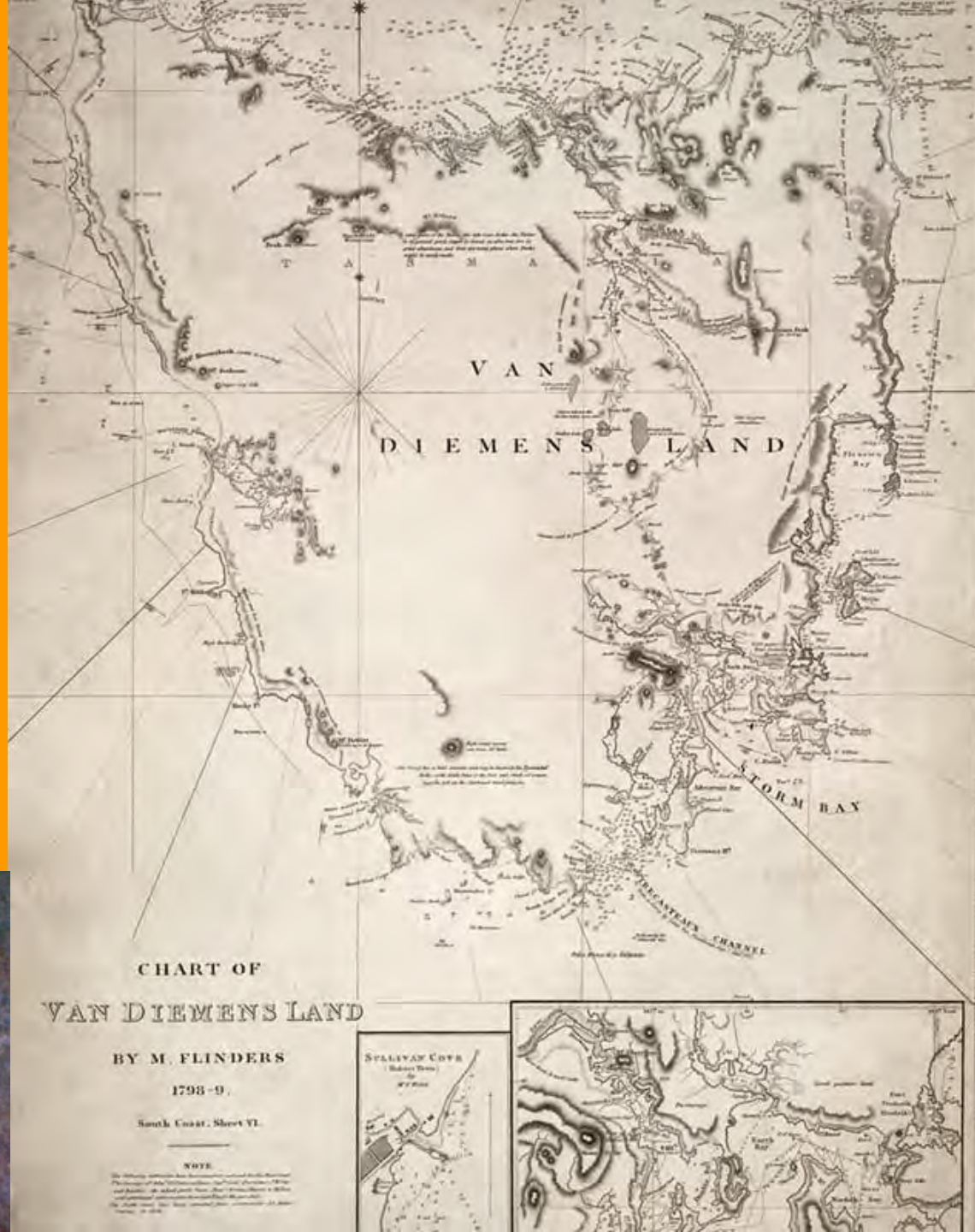


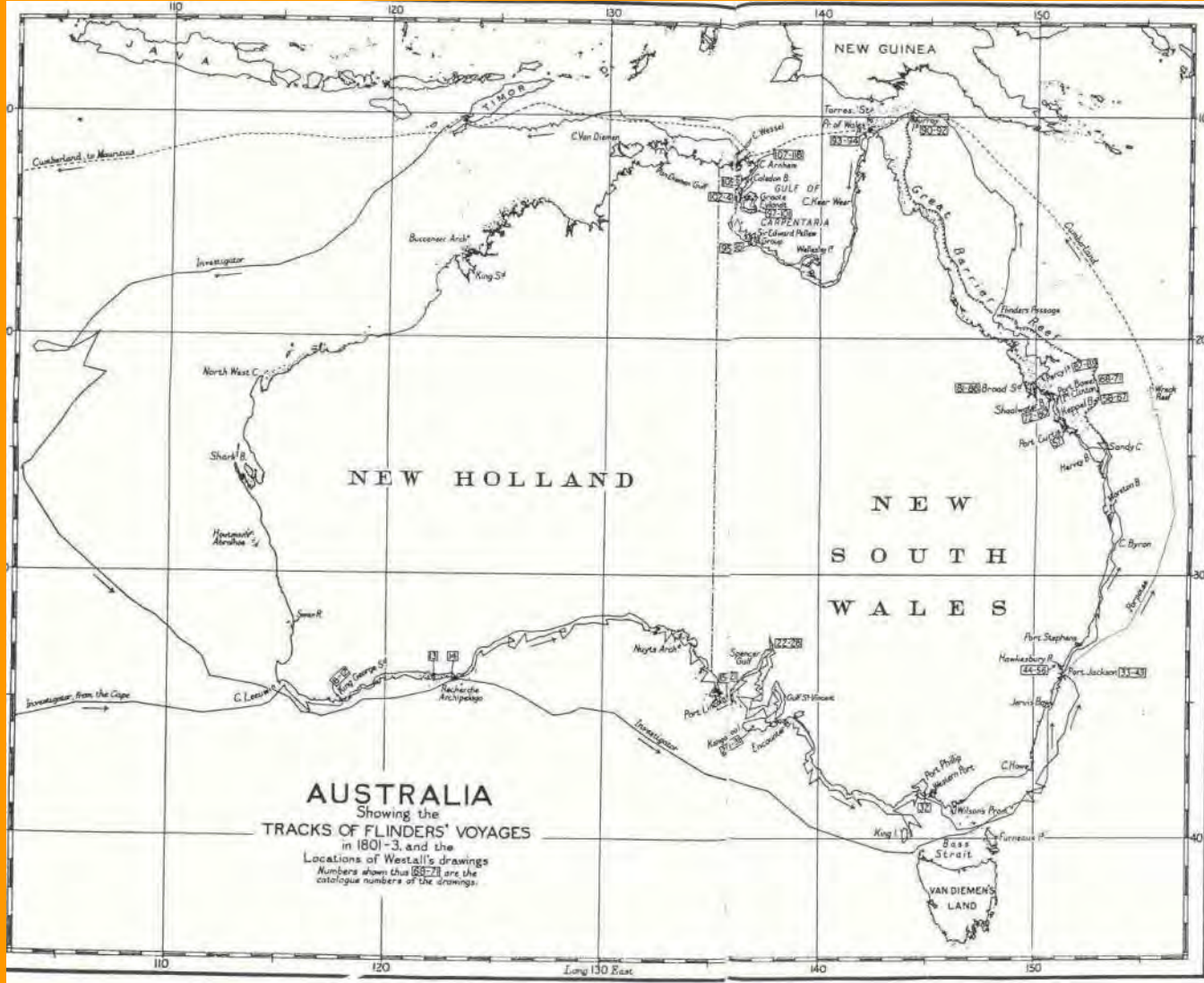
CHART OF
VAN DIEMENS LAND

BY M. FLINDERS
1798-9.
South Coast. Sheet VI.

NOTE
The following is a list of the names of the various bays, rivers, and creeks, &c. which have been discovered on the South Coast of Van Diemen's Land, during the late voyage of the Discovery, under the command of Captain Flinders, in the years 1798 and 1799.



Matthew Flinders

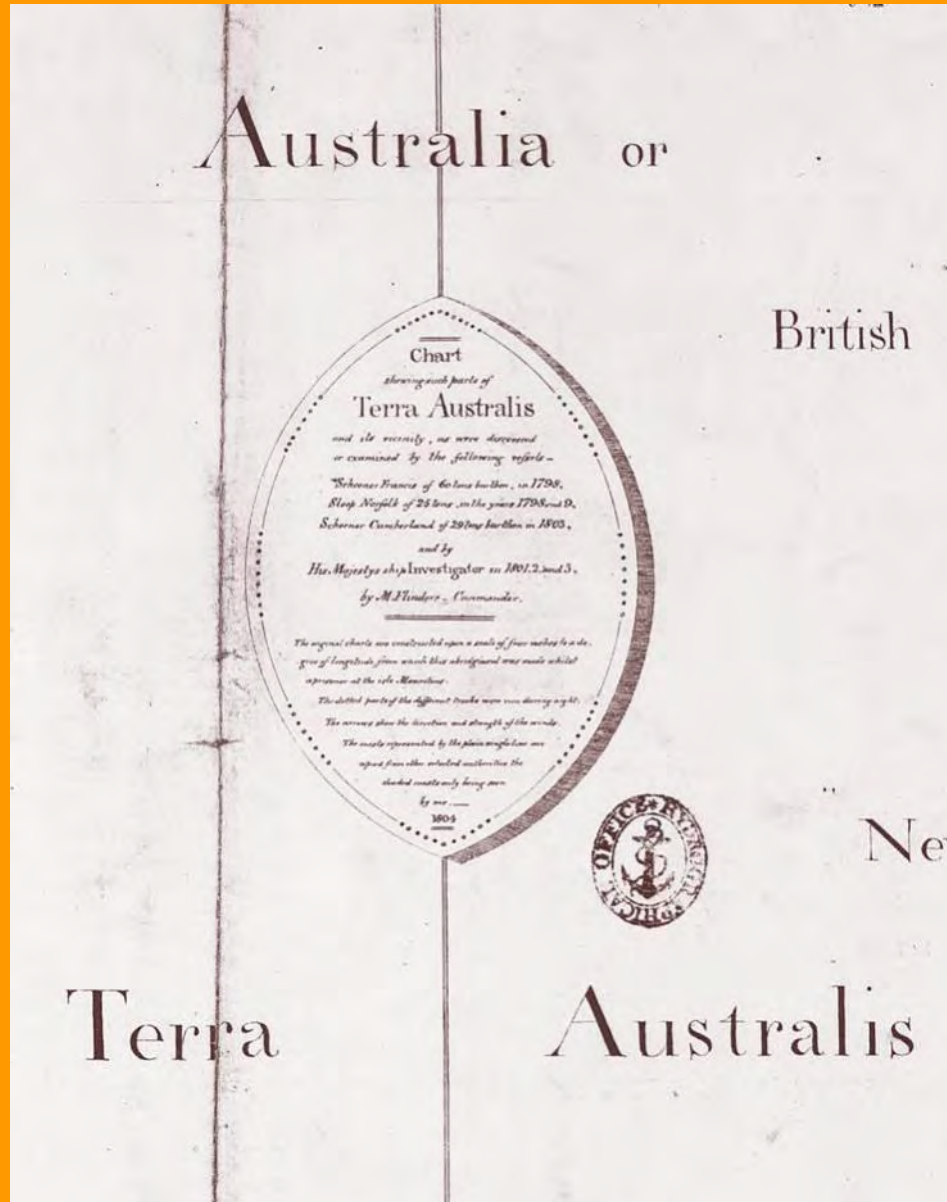


Flinders Circumnavigation of Australia

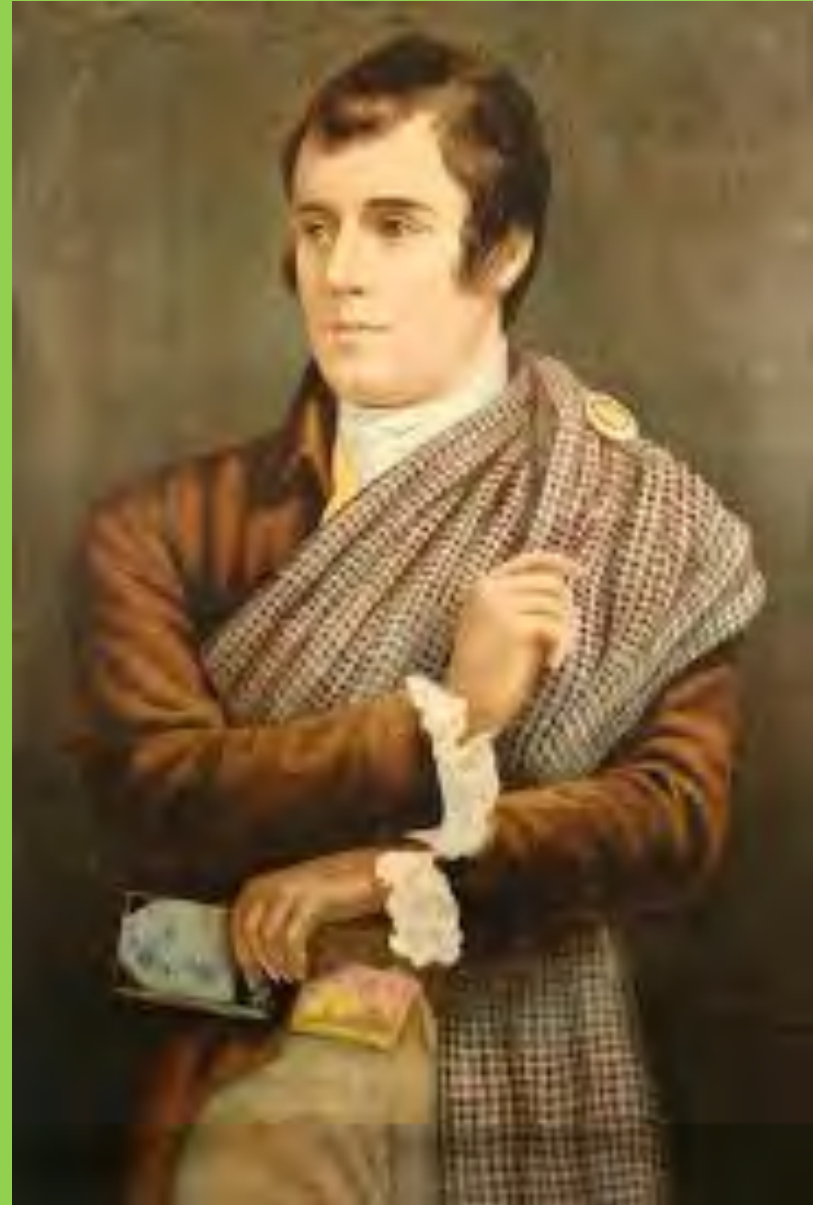
MATTHEW FLINDERS 1804 MAP



MATTHEW FLINDERS 1804 MAP



ROBBIE BURNS, THE GREAT SCOTTISH POET WAS VOTED GREATEST SCOT OF ALL TIME IN 2009 BY THE SCOTTISH PEOPLE. HE WAS ALSO A LAND SURVEYOR AND THE FIRST TO BE GIVEN HONORARY CHARTERED SURVEYOR STATUS BY THE RICS AFTER HIS DEATH.





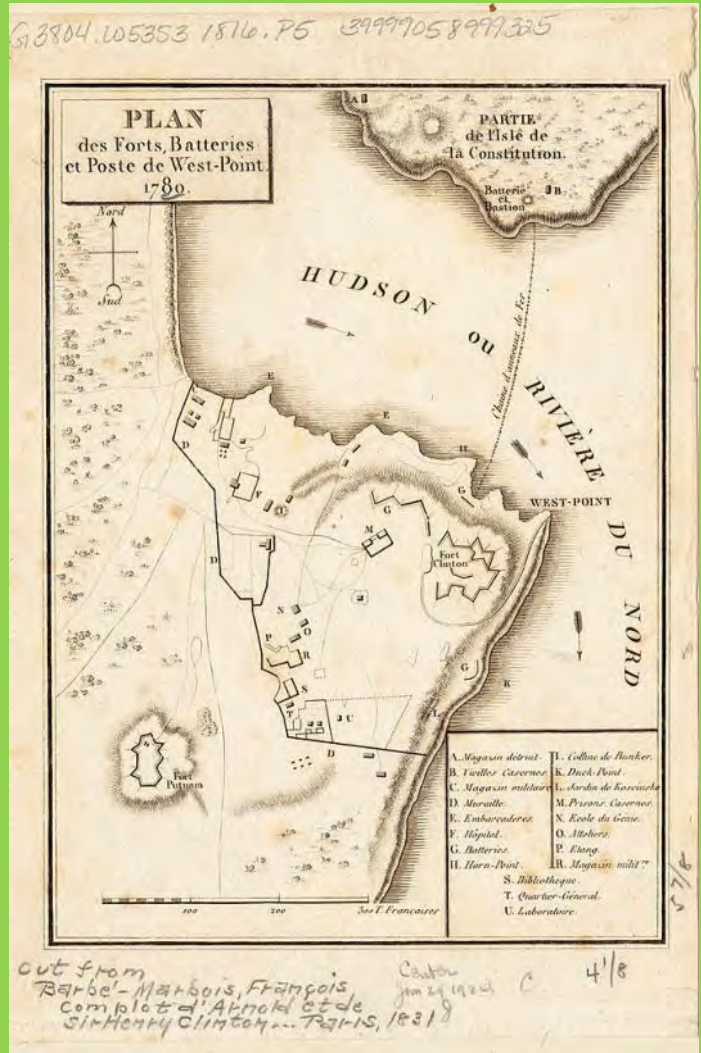
2009 PNC FDC ISSUED TO HONOUR ROBBIE BURNS.

**MODERN
PAINTING OF
THADDEUS
KOSCIUSZKO
WITH HIS
SURVEY
INSTRUMENT
AND A PLAN
BY ROBERT
WILSON (1980)**





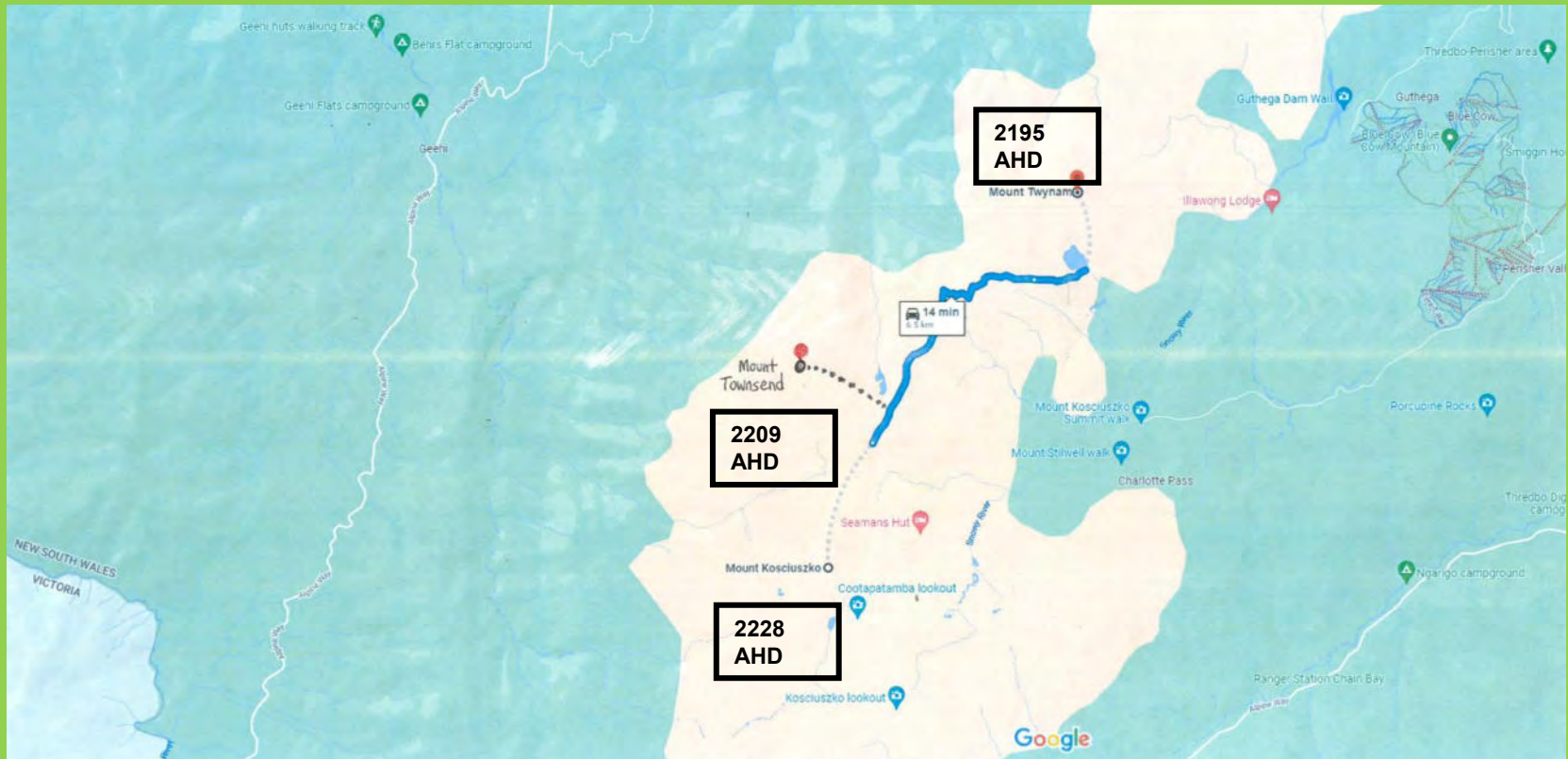
PAINTING OF GEORGE WASHINGTON WITH KOSCIUSZKO & OTHER GENERALS DURING THE AMERICAN REVOLUTION AND THE STATUE OF KOSCIUSZKO AT WESTPOINT WHICH HE DESIGNED.



**WESTPOINT IN 1831
FROM PHILLIPSTOWN.**



**THE TWO HEROES
OF POLAND GAZE UPON
MT. KOSCIUSZKO.**



AUSTRALIA'S 3 HIGHEST MAINLAND MOUNTAINS – KOSCIUSZKO, TOWNSEND & TWYNAM

**JAPAN'S MOST
FAMOUS SURVEYOR
INO TADATAKA:**

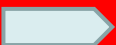


**AND HIS ICONIC
1821 MAP OF JAPAN**

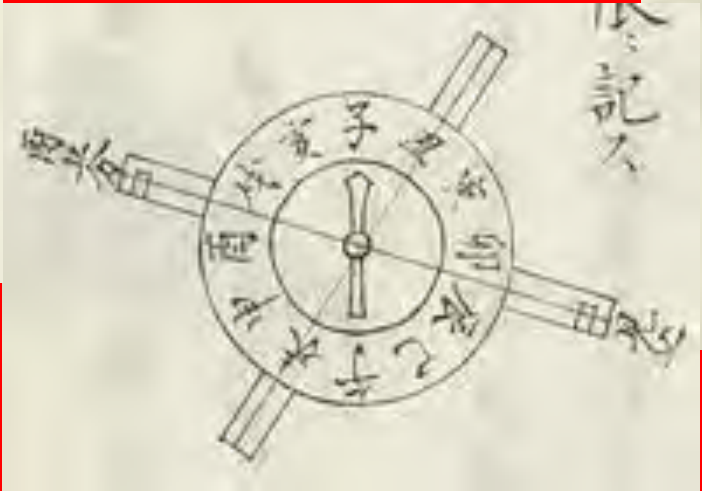
**THE 80 YEN POSTAGE
STAMP OF 1995 MARKS
A TRIBUTE FROM THE
NATION OF JAPAN WITH
THE AMAZING RESPECT
FOR INO TADATAKA AND
HIS TIRELESS SURVEY
OF JAPAN FROM 1800-18
FROM THE AGE OF 50.**



INO'S QUADRANT



COILED MEASURING ROPE

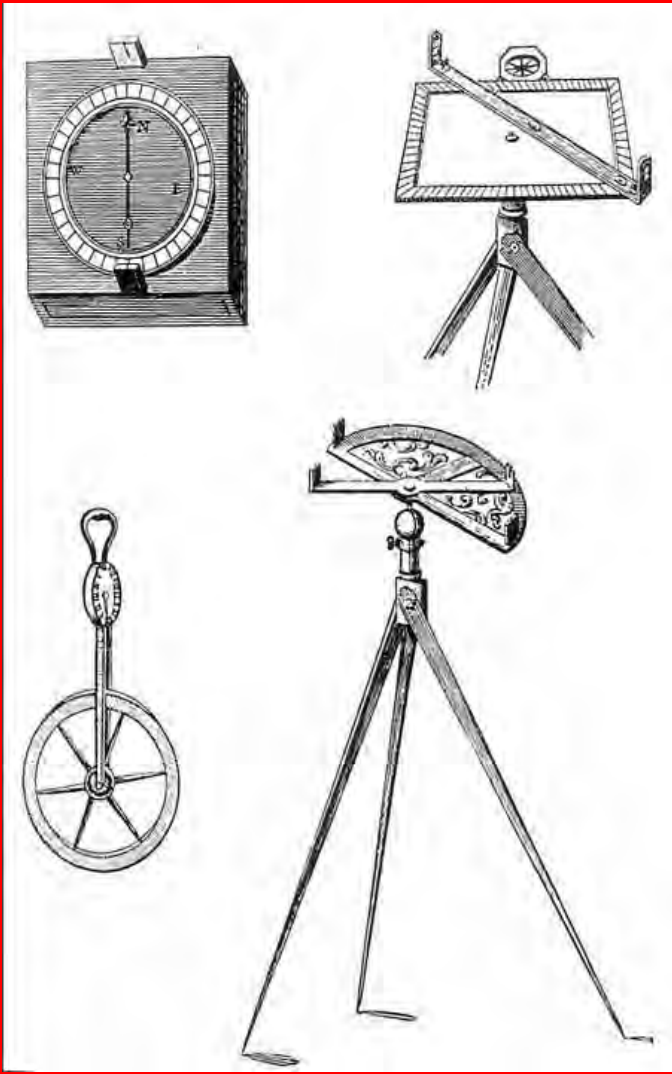


JAPANESE REVERSE COMPASS

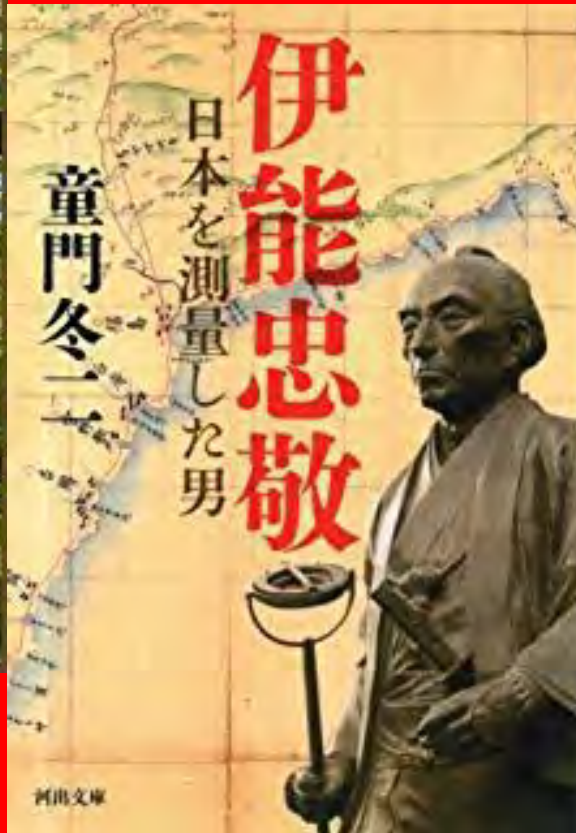
JAPANESE SURVEYORS AT WORK

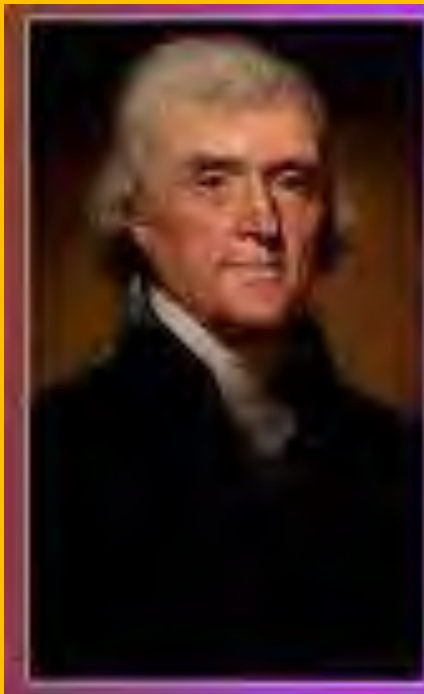


**SOME OF INO'S
SURVEY
EQUIPMENT**



**MANY STATUES, POSTERS
& BOOKS EXIST TO
HONOUR THE GREAT
JAPANESE SURVEYOR!**





NAPOLEON BONAPARTE PULLED OFF A MASTER SWINDLE WHEN HE REPOSSESSED THE SPANISH HELD LOUISIANA TERRITORY FOR A FEW MONTHS IN 1803 THEN ONSOLD THE LAND FOR \$ 15 MIL TO THE NEW USA, EFFECTIVELY DOUBLING ITS SIZE!



US PRESIDENT THOMAS JEFFERSON APPOINTED MARYLAND SURVEYOR ISAAC BRIGGS AS SURVEYOR-GENERAL OF THE LANDS SOUTH OF TENNESSEE ON 24 MAY 1803.



**MONTICELLO &
TJ THEODOLITE**



LEWIS & CLARK'S EPIC EXPEDITION 1804-06.



William Clark

National Park Service Images



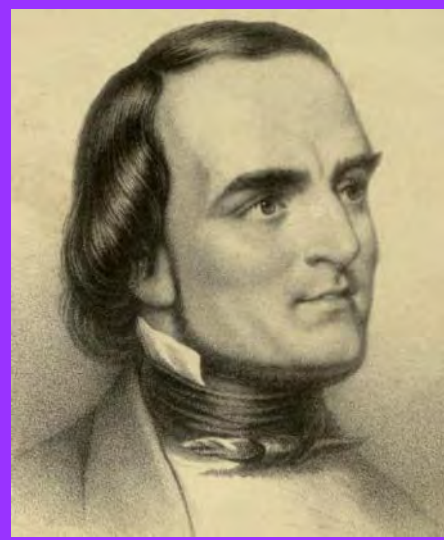
Meriwether Lewis





**MASON & DIXON SURVEYING
THEIR BOUNDARY LINE**

**CHARLES MASON AND
JEREMIAH DIXON WITH
THE BOUNDARY LINE
BEARING THEIR NAMES
DIVIDING PENNSYLVANIA
AND MARYLAND USA.**



**M-D LINE
BDY STONE**

दूनटोपेक्स-2003 DOONTOPEX-2003
ब्राह्म टिकट प्रदर्शनी-Philatelic Exhibition

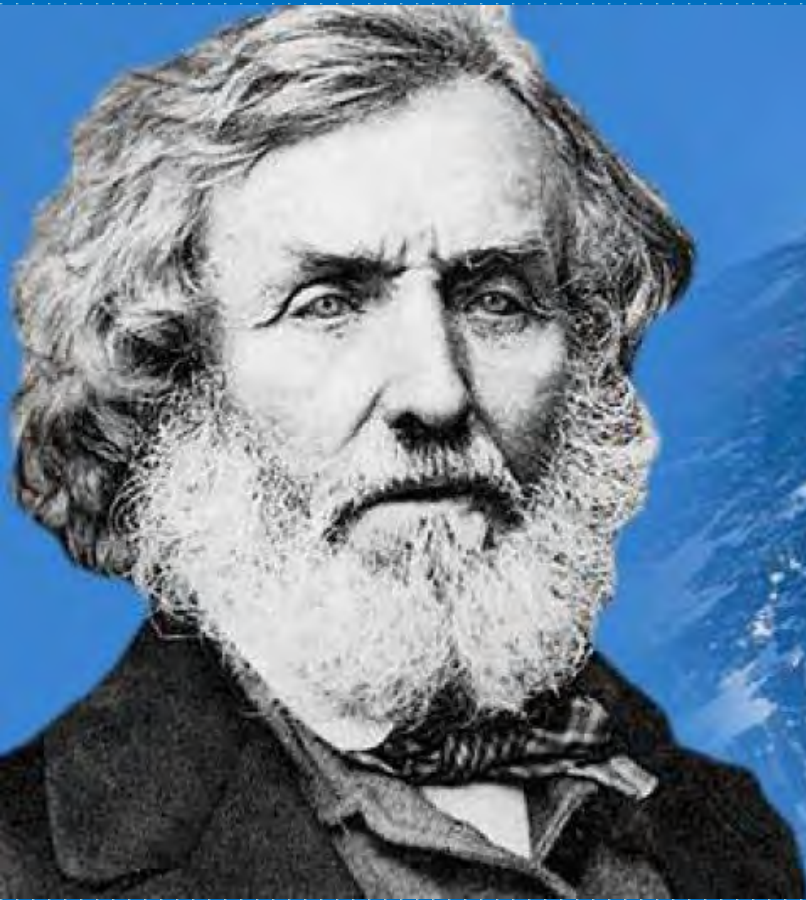
विशेष आवरण Special Covers



सर जार्ज एवरेस्ट
Sir George Everest



SIR GEORGE EVEREST AND MOUNT EVEREST FIRST DAY COVER



**SIR GEORGE EVEREST AND THE
WORLD'S HIGHEST MOUNTAIN.**



**EVEREST'S
GREAT
THEODOLITE!**



महान त्रिकोणमितीय सर्वेक्षण The Great Trigonometrical Survey



"भावी रचनाकृति सर्वेक्षणों का आधार, महान त्रिकोणमितीय सर्वेक्षण ने विज्ञान और प्रौद्योगिकी की प्रगति को बल प्रदान किया, जिससे बहुत आधारभूत विकास का मार्ग प्रशस्त हुआ।"

"The Great Trigonometrical Survey, the foundation of future topographical surveys, gave impetus to growth in science and technology leading to major infrastructural developments."

**TIBETAN SPY SURVEYORS
NAIN SINGH RAWAT AND
RADHANATH SIKDAR.**

PETRONAS TWIN TOWERS IN KUALA LUMPUR





ROB FULLOON



IAN SPARKS



AUSSIE SURVEYOR IAN SPARKS WHO SURVEYED THE WORLD'S TALLEST BUILDING BURJ KHALIFA AT 830 METRES WITH 200 STOREYS (160 HABITABLE).

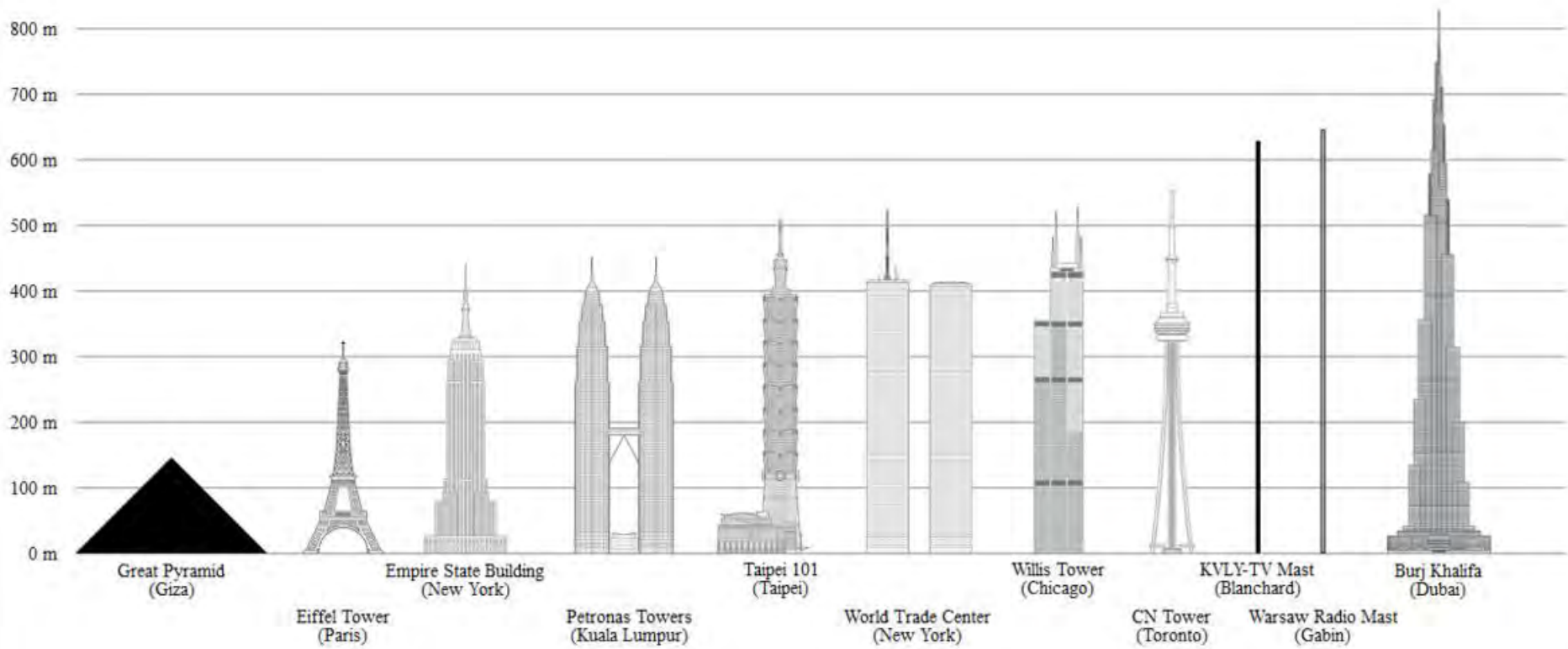


DIAGRAM OF COMPARISONS WITH THE WORLD'S TALLEST STRUCTURES

RANDOLPH SCOTT IN CARSON CITY



MOVIE STAR SURVEYORS

JOURNEY TO THE CENTRE OF THE EARTH

JAMES MASON



THE FIGHTING KENTUCKIAN



JOHN WAYNE

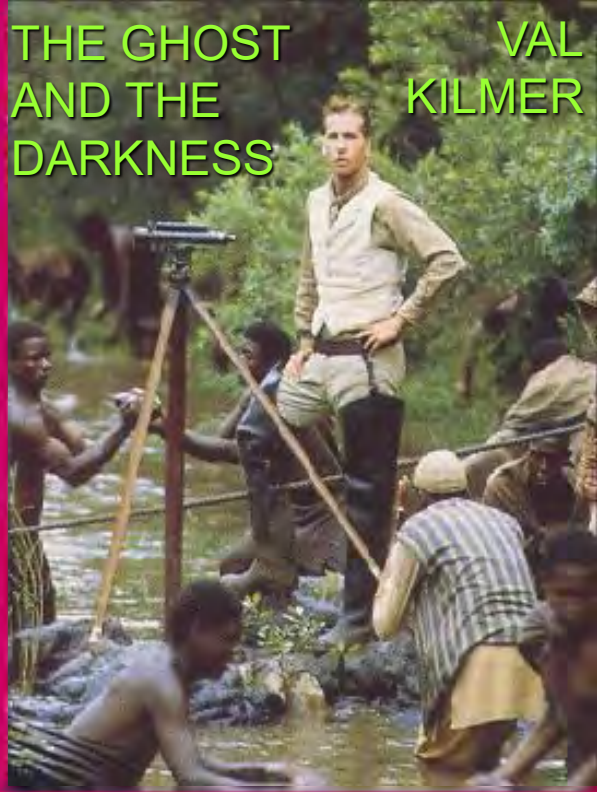
BRAD PITT



IN

THE GHOST AND THE DARKNESS

VAL KILMER

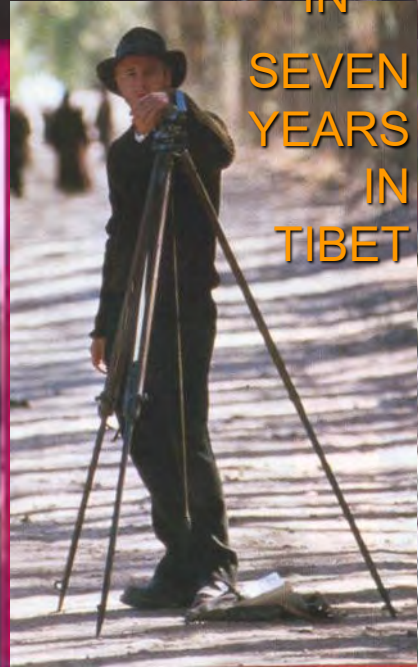


THE ENGLISHMAN THAT WENT UP A HILL BUT CAME DOWN A MOUNTAIN



HUGH GRANT

SEVEN YEARS IN TIBET





HARRISON
FORD

RAIDERS OF THE LOST ARK

MOVIE STAR SURVEYORS



CHARLTON HESTON AS MOSES
IN THE TEN COMMANDMENTS



MAP OF THE
HUMAN
HEART

PATRICK
BERGIN



CHARLES BRONSON
IN
DEATH
WISH



EDMOND O'BRIEN IN
DENVER
AND RIO
GRANDE



ALAN LADD & VIRGINIA MAYO

IN
THE
BIG
LAND



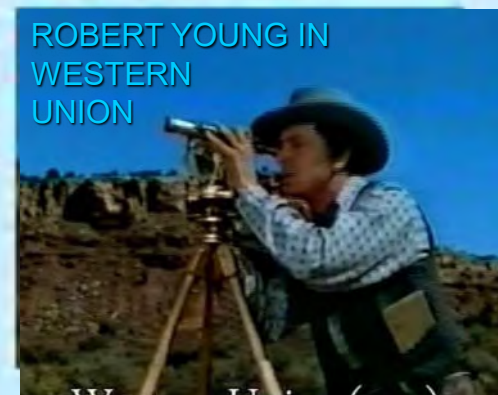
NAOMI NISHIDA

MY SECRET PLACE



THE HOWARDS OF VIRGINIA

CARY
GRANT



ROBERT YOUNG IN
WESTERN
UNION



**MOUNT RUSHMORE – 3 SURVEYORS
AND ANOTHER GUY!**



MOUNT BROCKMORE

**MT. RUSHMORE SD NOW
WITH FOUR SURVEYORS'
BUSTS & A NEW NAME!**

The End

Presentation by John Brock