A REPRODUCTION OF THE AUTHOR'S ACTUAL CHART MADE DURING HIS FLIGHT OVER THE TASMAN SEA 1931

Not shown is the AP for the 0500 GMT computation, it is 31° S, 160° E. Also not shown is the datum line for this shot, it is coincident with LOP.

0500 GMT
Azimuth = 65 2/3°
Hc =27° 43'

90° - 65 2/3° = 24 1/3°
180° + 24 1/3° = 204 1/3°

The land sighted at 05.44 turned out to be Ball's Pyramid 12·18 miles south of Lord Howe and I did not sight Lord Howe until nearly abreast of it.

LANDED LORD HOWE ISLE at 0630 hours

Time of flight 7hours 40 mins
Length of flight 575 land miles

The line through this square is the sun position line obtained at 05.20 hours G.M.T.

190 24 3/4
204 1/3
1 11
1931

Bearing of Lord Howe from turn-off point

The line through this square is the position line obtained from a sun observation at 05.00 hours G.M.T.

The line through this square is the sun position line obtained at 04.00 hours G.M.T

The square in this hour is the mean of positions timed by the two sun position lines. I suggest the difference between D.R. and sextant positions is accounted for by compass deviation as the compass had not been swung on this bearing

Scale in Nautical Miles
Each unit = 5 N.Miles

In this second hour I made an error in D.R. by plotting middle drift lines to the right instead of to the left of the course

LEFT NORFOLK Is at 1050

All the working in this chart was plotted in the aeroplane.

The arrows have been marked in since the flight to show up clearly the speed and direction of the wind for each hour. The length of the arrow shows the speed of the wind in m.p.h. on the same scale. Round dots are positions arrived at by dead reckoning. Squares show positions arrived at by sun observation.

Charles Francis Pilot April 1st 1931