December 1967

NASA TECH BRIEF

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GMT/Local-Time Conversion Chart



The problem:

In the calculation of local time, Greenwich Mean Time (GMT), and location by degree of longitude, navigators in the past have had to determine two of the factors in order to ascertain the third. While this is done in a straightforward manner, using relatively simple formulae, it consumes appreciable time and is inconvenient in the case of fast-moving transportation media where the operator of the transport must interrupt his normal operational routines.

The solution:

A GMT/local-time conversion by longitude pocket instrument that automatically indicates the desired information by simply manipulating the moveable portion of the instrument in accordance with a set of simple instructions imprinted on the instrument's reverse side.

(continued overleaf)

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Brief 67-10548

Notes:

- 1. While this device has been designed to aid NASA personnel in quick-look evaluation of a given satellite's reported position in relation to the STADAN (Satellite Tracking and Data Acquisition Network) stations, its polar projection map makes it an ideal tool for instructing students in the time/longitude relationship of easily identified terrestrial points and areas.
- 2. The device should be useful to operators of highspeed aircraft which must respect and avoid international boundaries.

3. Inquiries concerning this invention may be directed to:

> Technology Utilization Officer Goddard Space Flight Center Greenbelt, Maryland 20771 Reference: B67-10548

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D. C. 20546.

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