

Optimal Allocation of Pacific Fleet Patrol Aircraft Among Selected Deployment Sites

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THESIS

Naval
Patrol

OPTIMAL ALLOCATION OF
PACIFIC FLEET PATROL AIRCRAFT
AMONG SELECTED DEPLOYMENT SITES

by

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P3

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Following the end of WWII, the United States acquired numerous naval bases in the Pacific. In Massey Jr.'s 1969 thesis, after first establishing their purpose as forward defensive sites, he then looks at the maintenance and utilization of patrol aircraft on these bases. In this regard, he calculates costs, proposes flight logging methods, and highlights the necessary equipment and funding necessary to achieve these goals, as well as providing methods of imputing computer information and mathematical equations for reaching his answers. It is possible Massey's report holds significant contributions that shape base operations today.

There are numerous American military bases around the world, and require sophisticated maintenance and procedures to operate efficiently. Through mathematics and computer understanding, Massey tries to illustrate through numbers and algorithm how to best manage a naval patrol base.

"The formulation of the problem assumes that the total number of flight-hours available will be greater than the total requirement for on-station and transit time. If, however, the situation arises in which the requirements exceed the number of available flight-hours, additional procedures must be instituted." [p. 32]

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