

**The Aeronautical Journal RAeS August 1972**

**BRYSON, CAPT. L. S., HEENAN, CAPT. F. E., and JOHNSON, CAPT. C. A.**

**Helicopters in the Royal Navy**

*The paper surveys the development of rotary wing aircraft for use at sea from the autogyro to the present day. Emphasis is placed upon developments with which the Royal Navy has been associated, but reference is made to German naval developments during the 1939-1945 war. The SAR, Commando, strike, anti-submarine and reconnaissance roles of the helicopter are examined. The development of operations from small ships is described also weapon development and the need to protect helicopters against surface weapons; the evolution of the maintenance system to support helicopters at sea; the problems of vibration, operating in sandy deserts and icing environments.*

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**RAINEY, R. C.**

**Flying Insects as potential targets—initial feasibility studies with airborne Doppler equipment in East Africa**

*This paper covers the problem of spraying locust swarms from the air; the possibilities of Doppler exploration of wind-fields for airborne insects; Doppler trials in East Africa—locating swarms among mountains and open plains and a description of the first swarm to be successfully tracked down. Aircraft collection of airborne insects is described.*

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**MELLEN, SYDNEY L. W.**

**The operation of the Intelsat communications satellite system**

*Since its creation in 1964, Intelsat has launched and positioned ten satellites in synchronous orbit. Five of these, positioned over the Atlantic, Pacific and Indian Oceans, are at present in regular operation, a unique and complex task, the success of which depends upon effective co-ordination between its two major independent components—the earth segment and the space segment. This co-ordination and co-operation must encompass not only the day-to-day operation of the system, but the planning to ensure continuity of service as the system grows, new technology introduced and when unexpected contingencies arise. The aim of the paper is to indicate the general nature of the task and to give some practical examples of how it is performed.*

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**SIMMONS, DR. N.**

**The state of the art in remote sensing from space**

*In making this review, we must first consider the wide range of sensor systems that can now be provided to supplement the human eye. Second, since economic coverage of terrain demands that observation be made from above the earth, there is the question of available vehicles. Finally, with the tendency of these methods towards a prolific output of data, of which only a small fraction may be significant for any specific purpose, there is an important question of means of interpretation and data processing.*

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