Alfred Russel Wallace

photographed in February 1862 in Singapore, a few days before

setting out on the voyage which was to bring him to Malta.

ON MIRACLES

MODERN SPIRITUALISM.

Three Essays.

ALFRED RUSSEL WALLACE,

"THE MALAY ARCHIPELAGO," "CONTRIBUTIONS TO THE THEORY OF NATURAL SELECTION," ETC., ETC.

Cover of a pamphlet by Alfred Russel Wallace on spiritualism.



Engraving from the Illustrated London News of April 12, 1862, showing Wallace's birds,



A male Lesser Bird of Paradise, with the female in the background, from a painting by



Portrait of Wallace in the Malay Archipelago with two specimens of the Red Bird of Paradise.

Birds of paradise in Malta

DAVID DANDRIA

On February 5, 1862, the P & O Steamship Euxine left Alexandria bound for Marseilles, with a stopover in Malta. On board was a special and unusual cargo in the charge of one Alfred Russel Wallace, identified simply on the passenger list

birds of paradise that Mr Wallace had purchased in Singapore for £100 and was "determined to bring them to England by the overland route under my own care", as he wrote in his 1869 book The Malay Archipelago: The Land of the Orang-utan, and the Bird of Paradise. They would be the first two examples of these wonderful birds to reach Europe.

the world in search of rare and precious spices feathers spring from the head, back or shoulsuch as cloves and nutmeg, Malay traders gave ders. These descriptions only apply to the male them skins of birds which were so strange and birds because the females are usually brownish beautiful as to excite their admiration. The and nondescript; clearly the function of the traders called these birds in Malay "Manuk" male plumage is related to sexual display. In dewata" (Birds of God) and the Dutch traders fact, besides their brilliant plumage, birds of started calling them in Latin avis paradiseus paradise are also notable for their elaborate (paradise birds).

off for ease of transportation; in fact, one species rice, bananas and cockroaches. still bears the scientific name Paradisea apoda (footless paradise bird), given by Carl Linnaeus to Bombay where he stopped for a week in in 1760, at a time when no perfect specimen had been seen in Europe, and practically nothing was known about them. This species is now known as the Greater Bird of Paradise and is one *Peninsular and Oriental steamers cockroaches

This unusual cargo consisted of two live male of the most spectacular members of the family. As already mentioned, the main characteristic of birds of paradise is the extraordinary development of plumage, unequalled by any other birds. In several species, delicate brightly coloured feathers arise on each side of the body from beneath the wings and extend backwards forming trains or fans. These feather tufts are often elongated and twisted into fantastic Birds of paradise are exotic birds, the males shapes and have the most brilliant metallic tints.

of which have flamboyant and colourful The Greater Bird of Paradise, for example, plumage: they are found in southeast Asia. has a purple body with tufts of yellow and white mainly in the Malay Archipelago and Indonesia. feather which can be raised to afford a stunning When the first Europeans sailed to this part of spectacle. In other species these ornamental courtship rituals.

An early description of the birds by John van The birds that Wallace had purchased in Sin-Linschoten in 1598, states that "no one has seen gapore belonged to the species Paradisea roaches came to an end! these birds alive, for they live in the air, always papuana, the Lesser Bird of Paradise, one of the

natives for despatch to India, their feet were cut observed that they were feeding voraciously on number of Maltese cockroaches.

He set off on his journey home on a P&O liner order to take on fresh supplies of bananas. He was, however, encountering difficulties in obtaining live insects, as, he states, "in the were scarce". He did manage to capture a few dozen by setting traps in the storerooms and "by hunting an hour every night in the forecastle". This was scarcely enough for a single meal

"Wallace stayed in Malta for a fortnight, and in his own words he 'got plenty of cockroaches from a bakehouse"

From Bombay, Wallace travelled to Alexandria in Egypt, where he boarded the S.S. Euxine on the last stages of his long journey back to England, stopping at Malta and Marseilles. It was in Malta that his trouble in obtaining cock-

turning toward the sun, and never lighting on smaller species with a body length of 35cm. It in his own words he "got plenty of cockroaches" published describing the many species. The the earth till they die; for they have neither feet is a native of New Guinea and, like other birds from a bakehouse, and when I left, took with birds were featured in an article in The Illus

to India". This fanciful description arose from fruits and insects such as grasshoppers, locusts voyage home". So his live cargo now included, the fact that when these birds were captured by and caterpillars. Before buying them, Wallace besides the two birds; a steadily diminishing

Unfortunately, he does not describe the time he spent in Malta. He does, however, refer to Malta in a book review he wrote in 1871 of Notes of a Naturalist in the Nile Valley and Malta by Andrew Leith Adams, noting that Adams gives "a very full account of the aspects of Malta at different seasons of the year, of the character of the vegetation, and of the birds (most of which are migratory), and of the few indige nous reptiles and mammalia; while a complete list is given of the fossils, the birds, and the fishes, which have been yet discovered. An inter esting chapter is devoted to the great pre-historic rock-temple of Hhagiar-Kim (sic), with its strange pitted ornamentation and curious idols, and to the various dolmens, towers, rock-tombs, and other antiquities of the islands".

The voyage through the Mediterranean in early March was characterised by a very cold wind, and the only place where the birds' large cage could be kept was exposed to a cold draught. "Yet the birds never seemed to feel the cold". The overnight trip from Marseilles to Paris was marked by a sharp frost, but the birds arrived in London in perfect health, sustained, no doubt by those fat Maltese cockroaches.

The arrival of the two birds at the Zoological Gardens in London caused quite a sensation as they were the first living examples brought to Europe. They stimulated a great interest in birds of paradise and other exotic birds, and sev-Wallace stayed in Malta for a fortnight, and eral beautiful, illustrated folio volumes were nor wings, as may be seen by the birds carried of paradise, is omnivorous, feeding mainly on me several biscuit-tins full, as provision for the trated London News of April 12, 1862, which also

carried an engraving showing the two birds, of Geology, and decided that he too wanted to whose fine plumage was not yet fully developed. become a travelling naturalist. The article noted that a special room was preby a screen as the two males were showing signs

of aggression.

The transport of the birds of paradise to Lon-Narrative of Travels on the Amazon and Rio Negro. don, with a stopover at Malta, was just a minor His voyage back to England in 1852 was marked reached during his Malayan travels. episode in the life of this remarkable naturalist, by an onboard fire which destroyed most of his who was born in Usk, Monmouthshire, Wales, on January 8, 1823. In 1844 he met the young next undertook a trip in 1854 to the Malay notions spawned by evolutionary thinking. He entomologist Henry Bates, who instilled in him Archipelago (Singapore, Malaysia and Indonean interest in natural history. He read avidly on sia) where he was to remain for eight years. the subject, including Charles Darwin's The Voy-

age of the Beagle, and Charles Lyell's Principles incredible collection of about 126,000 zoologi- dabbled in spiritualism in the late 1860s and charles.smith/wallace/writings.htm.

cal specimens, including no less than 80,000 beetles. Several thousand of them represented species which were new to science. Accounts of his Malayan explorations were published in 1869 as The Malay Archipelago, which became one of the most popular books of scientific for the rest of his life, publishing about a hunexploration of the 19th century, and has never dred writings on the subject. been out of print since.

But perhaps Wallace's main claim to fame arose from his thoughts and ideas about evolution which led to his famous insight on natural own theory, in the same year. He became His first trip, accompanied by Bates, was to friendly with Darwin and other evolutionary pared for the birds, but they had to be separated the Amazon in 1848. He spent four years in thinkers, and published many papers, and gave Brazil, collecting and observing the remarkable lectures, defending the theory of natural selecbiodiversity, which he described in his book A tion made famous by Darwin's On the Origin of Species, conclusions which Wallace himself had

Wallace later became a social activist; he was Thanks to Mark Anthony Falzon who first drew collection. Undeterred by this mishap, Wallace a staunch opponent of eugenics, one of the favoured land nationalisation and women's suffrage and wrote repeatedly on the dangers and

wrote first-hand accounts of seances. This nonscientific conversion took many of his colleagues by surprise; he spent a few years urging them to look into the matter in more detail, but few followed his lead. He remained a spiritualist The remarkable Wallace, naturalist, explorer,

geographer, anthropologist, biologist, social activist and spiritualist, died at Broadstone in Dorset on November 7, 1913, aged 90. His death selection. Both Darwin and Wallace came to the was widely reported in the press, the New York same conclusion after reading the writings by Times hailing him as "the last of the glants Thomas Malthus on population growth – that a belonging to that wonderful group of intellecnatural process was selecting only the strongest tuals that included, among others, Darwin, individuals for survival. In 1858 he sent an article Huxley, Spencer, Lyell, and Owen", More outlining his theory to Charles Darwin; it was recently, Sir David Attenborough wrote "there published, along with a description of Darwin's is no more admirable character in the history

On November 1, 1915, a medallion bearing his name was placed in Westminster Abbey near Darwin's burial place.

Acknowledgements

my attention to Wallace's visit to Malta, and to the Malta National Archives for their assistance. Anyone interested in knowing more about Wallace and his writings should visit 'The Alfred Wal-During his explorations Wallace amassed an wastefulness of military expansion. He also lace Page', online at http://people.wku.edu/

