"Perplext in Faith"

Essays on Victorian Beliefs and Doubts

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"ALL THE STRANGE FACTS": ALFRED RUSSEL WALLACE'S SPIRITUALISM AND EVOLUTIONARY THOUGHT

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Alfred Russel Wallace had already established himself as a naturalist (known in biological circles for his work on butterflies in both South America and East Asia), evolutionary thinker (most famously in the 1858 essay on natural selection that prodded Charles Darwin into finishing his Origin of Species [1859]), and ethnologist (with contributions to thought about races in the Malay Archipelago as well as about early human forms) when he turned his attention to Spiritualism in the mid-1860s; *The Scientific Aspect of the Supernatural* (1866) was his first published work suggesting the validity of Spiritualist beliefs and practices. There, after cataloging a range of spiritual manifestations (clairvoyance, "magnetic" experiments, apparitions, séances), Wallace asserted:

It appears then, that all the strange facts, denied by so many because they suppose them 'supernatural,' may be due to the agency of beings of a like mental nature to ourselves—who *are*, in fact, ourselves—but one step advanced on the long journey through eternity (45).¹

Wallace explicitly labeled his investigation, it will be noted, "scientific," which was not atypical of the claims of Spiritualist writers in the period. For instance, Alex Owen, using Wallace and another evolutionary thinker, George John Romanes, as examples, notes:

Both Wallace and Romanes distanced themselves from scientific naturalism while retaining a commitment to the idea of a rational 'scientific' religion that constituted part of the appeal of the occult. Indeed, far from occultism abandoning the field to science, it consistently referred to scientific inquiry as part of its legitimate domain (36).²

But Wallace presented a somewhat special case, as codiscoverer of natural selection with solid credentials in the natural and social sciences.

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science. It can be compared with Wallace's sometime collaborator Charles closely followed patterns familiar to any reader of nineteenth-century mind" (49). Case proven, to Wallace's satisfaction at least. the world that can at all commend itself to the modern philosophical the only one that does so), but it is further remarkable as being associated accumulating evidence (all those anecdotes), and reaching a conclusion: since: "The nature of these acts is often such, that no cultivated mind can scientific speculation (conjectures about "etherial motion" [7] that, matter, though they themselves are uncognisable directly by our senses" case to be proven—that "intelligent beings may exist, capable of acting on position being advanced (the rejection of miracles by David Hume, John Tyndall, and William Lecky, here, in the place Charles Bell holds in with a theory of a future state of being, which is the only one yet given to "The hypothesis of Spiritualism not only accounts for all the facts (and is for a moment impute them to an infinite and supreme being" [7]), incidentally, place such "miracles" into the territory of "natural phenomena," [4; italics in original]), suggesting a foundation for such an assumption in Expression), expanding on the hypothesis (in the essay, by laying out the general category of "miracles"), countering obvious opponents to the framing it against the literature (in this case, skeptical writing on the (1872) employed essentially the same structure: formulating a hypothesis, Darwin, say, whose The Expression of the Emotions in Man and Animals Indeed, the methods of Wallace's first exploration of Spiritualism

Wallace reached this position not long after his first experience with a séance, in 1865, and in the context of aggressive further investigation (including more séances) over the next year, although earlier interest in mesmerism and phrenology provided some of the groundwork for his interest. Over the course of the next decade, he would move from the sympathetic call for further investigation (the core argument of the 1866 pamphlet) to committed belief in Spiritualist phenomena, culminating with his "Defence of Modern Spiritualism" (1874). This was not a position shared by all of Wallace's fellow evolutionary thinkers. Huxley dismissed Wallace's pamphlet:

It may all be true ... but really I cannot get up any interest in the subject. I never cared for gossip, and disembodied gossip, such as these worthy ghosts supply... is not more interesting to me than any other" (Marchant 1916, 418).

Joseph Hooker would later confess to Darwin: "Wallace has lost caste considerably ... by his adherence to Spiritualism" (qtd. in Shermer 2002, 274).

On the pamphlet itself, Darwin was silent, but his own distrust of Spiritualism is well documented. In an 1874 letter about a séance he attended, Darwin noted that "We had grand fun," but also: "The Lord have mercy on us all, if we have to believe in such rubbish" (F. Darwin 1888, II: 364-65). We can presume Darwin remained unconvinced.

That Wallace believed that, even in his Spiritualist quests, he was continuing to pursue science points to the amorphous character of science itself in mid-Victorian Britain. The very training and background of prominent scientists of the era—both Darwin and Wallace among them—establishes the weakness of professionalization and the ambiguities over disciplinary boundaries in the period. Darwin, after all, joined on with the Beagle as a geologist, and Wallace (like Huxley) moved easily between biological work and the new social science of anthropology. As James Moore has pointed out, the very character of the debate over Wallace's arguments underlined the ambiguities of science in the era. In answer to the question about Huxley vs. Wallace, "Which of them were being 'scientific?," Moore answers:

They both were, each according to his lights. Theirs was a dispute about what should *count* as science.... [Wallace's] science included the super- or preternatural; Huxley's denied its existence. Wallace saw himself as working on 'a *new branch* of Anthropology'; Huxley remained loyal to Darwin's. *Neither* anthropology, however, was seen as 'scientific' by older naturalists and the clergy. (Moore 2008, 364)

It is only in retrospect, from a later position in which the boundaries of science have been established more firmly, that it seems clear that Wallace's position was on the losing side.

In 1869, Darwin, concerned about the direction of Wallace's thought, wrote to Wallace: "I hope you have not murdered too completely your own and my child" (Marchant 1916, 197). But he was not, despite the claims some critics have made (see, for example, Dennet 1996, 67), talking about Wallace's Spiritualism here. Rather, it was Wallace's suggestion that natural selection could not entirely explain some aspects of specifically human evolution that prompted Darwin's alarm. For Wallace, that assertion had something to do with his new interest in Spiritualism, as his letter responding to Darwin makes clear: "My opinions on the subject have been modified solely by the consideration of a series of remarkable phenomena, physical and mental" (Marchant 1916, 200). His rethinking of human evolution would come to dovetail, over the continued development of Wallace's ideas in the 1870s and beyond, with his Spiritualist convictions, but it also followed his independent investigations into the

meaning of evolution for the human species, especially in relation to ideas

evolution. 2002, 252-56), and he drew deeply different conclusions about human Anthropologicals" (Desmond and Moore 2009, 332-357, 346-47; Browne humans. Not surprisingly, Darwin showed a deep distrust of "the governed Darwin's extension of evolutionary theory to the case of Darwin's Sacred Cause (2009), a foundational anti-slavery discourse Desmond and James Moore have so fully demonstrated in their magisterial races were doomed for extinction.¹⁰ For Darwin, in contrast, as Adrian "savage" races, and explicit in his endorsement of the view that lower committed to notions of racial hierarchies that favored Europeans over era, he remained deeply involved in discussions of racial typology, firmly man from 1864 forward, to obviate the most extreme racial views of his antiquity of humans. Even as Wallace sought, in work on the antiquity of of lower races) that shaped anthropological thought in the period, bridging always privileging whites, and a recurrent argument about the extinction of anthropological ideas about religion, it is, centrally, the issue of race, beyond the place of fieldwork-observed "savage" rituals in the formulation role in shaping Wallace's views.8 But beyond the connections between contact with alternative spiritual practices, and certainly played an explicit spirits, determine the distinctions between Darwin's position and the deep divides between polygenists and monogenists on the origin and framed in developmental terms (with clearly demarcated rankings of races, phrenology and Victorian anthropologists' obsession with crania, and Herbert Spencer (1995, 77); fieldwork, too, placed anthropologists into in phrenology, and both grounded in the thought of August Comte and highly fraught debates about race and the antiquity of man in the midanthropology and Spiritualism shared a similar background," both rooted 1860s, frame Wallace's work. As Peter Pels has noted: "To some extent, Wallace's. Anthropological investigations, in the specific context of the And in this respect, disciplinary approaches, as much as ideas about

Understanding the ways in which Wallace's Spiritualism aligns with his developing ideas about evolution requires, however, a full appreciation of the grounds: both the foundations of Wallace's belief and the trajectories of evolutionary thought in the period. Interfering with such an assessment has been the hostile dismissal of Wallace's position, both by his contemporaries and by more modern commentators. As Wallace's Spiritualist explorations became public knowledge after 1866, he faced mocking criticism from multiple sides in the evolutionary debates of the period. Thus, the London Anthropological Society's James Hunt, who had

originality" (qtd. in Durant 1979, 32). In 1904, G. K. Chesterton labeled credible "Wallace of travel and observation, the Wallace of ingenuity and of man" (Huxley 1871a, 122). 11 As Malcolm Kottler has noted, of reviews of sort of supernatural Sir John Sebright—to produce even the animal frame already dismissed evolutionary approaches to the study of man (mostly for his Spiritualist convictions "fantastic, infantile, a laughing stock" (420). land-question, the Wallace of incapacity and absurdity" 12 from the still Wallace of Spiritualism and astrology, the Wallace of vaccination and the Romanes, writing about Wallace in 1890, insisted on separating "the And the pattern of derision continued throughout Wallace's life. George through "reductio ad absurdum and ridicule" (Kottler 1874, 157, 158). "simply rejected outright his repugnant conclusions" and dealt with them because Mr. Wallace thinks it necessary to call in an intelligent agent—a that even St. George Mivart "is more of an evolutionist than Mr. Wallace, unfairly) lumping him in with "Darwin's Critics," he derisively remarked Darwinian ideas about man, was no kinder to Wallace; after (rather Thomas Huxley, the other person attacked by Hunt in his assault on kind departed spirit, perhaps that of the 'first man'" (Hunt 1867, 242). But probably Mr. Wallace's views have been communicated to him by some unwarranted either by logic or by facts" (Hunt 1866, 320), mocked: "But their firm commitment to monogenist ideas of human origin) as "wholly Wallace's Contributions to the Theory of Natural Selection (1870), many

Jekyll/Hyde metaphor (while misremembering which is the doctor and continued contributions to evolutionary biology and anthropology. Miller historiography: "he played the crank to Darwin's correctness" (Moore evolutionary thinkers and historians, writing well after Spiritualism's with the drift of Wallace's arguments from the mid-1860s forward, later decided that, if not exactly insane, the brilliant naturalist was at the very Natural History of Creation (1844) as proof (McKinney 1972, 138). John his character has very deep roots," McKinney argues, pointing to which the monster) to explain Wallace's Spiritualism: "the Jekyll side of more derisive view. H. Lewis McKinney, for example, resorted to a books displayed little or no trace of spiritualism" (1974, 94). Others take a 2008, 355). Some have treated it as an aberration, unrelated to Wallace's Wallace's Spiritualist beliefs underpinned the role he has played in the have often been even more dismissive. As James Moore has noted, Durant asserts, of Wallace after 1870, "many scientists and intellectuals Victorian heyday and the consolidation of the neo-Darwinian synthesis, Wallace's early "naïve" acceptance of Robert Chambers's Vestiges of the Turner, for example, insists: "His most significant scientific articles and If many of Wallace's scientific contemporaries were uncomfortable

least of decidedly unsound frame of mind" (Durant 1979, 32). Derision continues to loom large in such analysis of Wallace's position.

on to refer unequivocally to Wallace's "error on human intellect" (Gould him, quite consistently, to reject it for the human mind," although he goes sophisticated version of that argument, Stephen J. Gould has suggested natural selection, the theory he co-created. In a somewhat more a character flaw, as when Michael Shermer diagnoses Wallace as having a 1980, 54, 55). Such are the costs of siding with history's losers, perhaps. that it was Wallace's "peculiarly rigid view of natural selection that led harrumphs that Wallace "never quite got the point" (Dennett 1996, 66) of Wallace never really was on board with Darwin, as when Daniel Dennett by the same lack of empathy" (Berry 2008, 61). 14 Still others argue that spiritualism—his gullibility on the subject—may have been exacerbated Wallace as lacking "social empathy," arguing that "Wallace's openness to transcend the Materialistic world" (201), or when Andrew Berry identifies his "temperament and personality drove him toward the temptation to "heretic personality" (Shermer 2001, ch. 7 or 2002 ch. 10), 13 and asserts that (Owen 1989, Barrow 1986). For others, Wallace's Spiritualism amounts to underline the radical working-class roots of much Victorian Spiritualism explicitly, with the work of Alex Owen and Logie Barrow, which isolation (Durant 1979, 33). Such arguments dovetail, more or less the scientific community, rooted in his lower-class identity and relative traces Wallace's scientific development to his "sense of alienation" from nearly a decade after Wallace's first pro-Spiritualist work. John Durant darkest moment of his life" (Slotten 2004, 318), although the work came penned his Defence of Modern Spiritualism (1874) at "certainly the attraction to Spiritualism, as when Ross Slotten writes that Wallace Some imply that only loss and depression could explain Wallace's Others seek to account for Spiritualist interests in biographical terms.

It is only within the last few decades that Wallace's position has been reassessed more sympathetically. First of all, this revaluation has come in the wake of a historical reappraisal of the place of Spiritualism in Victorian culture, which has insisted that we recognize how broadly Spiritualist influences ran in late Victorian Britain and along what axes, tracking, for instance, its gendered and class-based impact (Owen 1989, Barrow 1986) and its linkages with eugenic thought (Ferguson 2012). Second, such revision depends on the development of a more critical range of work in the history of science more willing to engage with the discredited pseudo-sciences of the age on their own terms rather than exclusively through the lens of their later rejection by the scientific academy. Thus, for example, Martin Fichman has used Wallace as "a

significant case study ... [of] how theism has affected the scientific thought" (Fichman 2001, 250). Peter Lamont has positioned Wallace's embrace of Spiritualism within a broader context of a crisis in scientific authority, linked to the growing divide between the direction of scientific thought and traditional religious belief (Lamont 2004). Peter Pels has moved toward understanding Wallace's Spiritualism on Wallace's own terms, insisting that "it might be more interesting to treat Wallace's occultism as science rather than religion" (Pels 1995, 86); Kottler similarly argues that "Spiritualism was, to Wallace, the science of the spiritual nature of man" (1974, 183). This approximates, as we have seen, Wallace's own understanding of it.

Recent revaluations have thus tended to underline the interconnections between different strands of Wallace's belief system. David Stack has linked both the occultist strand of Wallace's thought and his developing evolutionary ideas to foundational political commitments, evident most clearly in his advocacy for land reform:

land reform assumed a centrality in Wallace's thought in the 1860s as part of a package of ideas that including his developing social Darwinism [which Stack identifies in Wallace's embrace of Spencer] and his embrace of spiritualism (Stack 2008, 282).

Fichman similarly suggests that "Wallace viewed seemingly disparate domains, such as human evolution, spiritualism, land reform, and medical ideas about man's natural habitat, as interconnected" (Fichman 2008, 307). Charles Smith has insisted that we see the deeper roots of both Wallace's ideas about natural selection and his Spiritualism:

the fundamental principles of Wallace's approach to the study of man/nature had been set in his mind well before he finally stumped onto natural selection, and ... it is extremely difficult to believe that either his natural selection or spiritualism had any profound effect on re-directing them (Smith 2003-2006, 1:27).¹⁷

Whether commentators see Wallace's development in terms of a sequence of separate stages (as does Ted Benton, mapping out a three-phase chronology of his development [2008]), or as a single arc from a set of basic roots (the approach taken by Smith [2008 a and b, 2003-2006]), the point of such revaluations is clear: Wallace's Spiritualism, rather than being an anomalous aberration, was founded on a range of earlier beliefs (Owenite socialism, phrenology, Swedenborgian ideas, mesmerism), each

of which, if never quite mainstream ideas, had a place in Victorian ideologies.

motivated primarily by his growing belief in spiritualism during the period 1865-1869" (Fichman 1981, 111). ¹⁸ Gould similarly speaks of how Darwin terms of the development of evolutionary thought in relationship to man. understanding of natural selection and the Darwinian movement, and in 53). Søren Løvtrup wonders: "How can we explain Wallace's 'treason' to was "aghast at Wallace's abrupt about-face at the finish line itself" (1980, Fichman insists that "Wallace's volte-face with respect to man was well as spiritual arguments against natural selection" (Kottler 1974, 192). carefully, similarly concludes that he "was persuaded by his scientific as account of man in evolutionary processes, "Wallace was now more 364-365). Desmond and Moore list Wallace among the "defections" "murdered too completely" remark: "Now Wallace threatened worse-to subsequent "ostracism," describes the passage that prompted Darwin's Similarly, Moore, discussing Wallace's "parting with Darwin" and "backtracked on his commitment to natural selection" (2002, 317). caused his rejection of natural science as an adequate principle to explain Wallace's position on at least two grounds: both in terms of his the cause of 'Darwinism'?" (1987, 228). But such views misunderstand Kottler, although tracing the development of Wallace's thought more hindrance than help" (2009, 357) because of his Spiritualist convictions. (1991, 571), and later insisted that, as Darwin moved forward to take backslide," and "Infanticide it was. The review was brutal" (Moore 2008, human evolution" (1987, 181). Janet Browne writes that Wallace "Wallace forthrightly claimed that a conversion to spiritualism proximately Research"]" (Chesterton 1904, 420). Robert Richards puts the words into and the leader of a counter revolution [which Chesterton labels "Psychical leader of a revolution [which he identifies as the "Darwinian Movement"] back at least to G. K. Chesterton, who asserted that Wallace "has been the on seeing Wallace's "conversion" to Spiritualism as a fundamental break Wallace's own mouth (without actually quoting him, for good reason): from Darwinism. This follows a long line of critical commentary, going Even with this fuller understanding, many contemporary writers insist

Most centrally, the premise that Wallace departed from Darwin ignores the trajectory of the development of evolutionary thought, especially between 1864 and 1871 (when Darwin published *Descent*). The central argument that Wallace diverged from Darwin ignores the inconvenient fact that there was not yet a Darwin from which to diverge when it came to the question of human evolution. Over the course of the 1860s, both Darwin and Wallace were beginning to explore the meaning of natural

selection for humans. They came to differ, especially on the issue of the evolution of higher faculties and about sexual selection, but Wallace published his own "divergent" view in 1870, before *Descent*. Critics take Darwinian thought as a composite, completed whole in assessing Wallace's "heresy" in relation to it, but at the time it was an evolving, still unfinished project, like Wallace's. And indeed, Wallace had been excavating the territory for a full half decade before Darwin established his place in the field.

sure, on nineteen points out of twenty" (Marchant 1916, 209). For amount of work he was generating in defense of Darwin's theory. Clearly, natural selection in relation to man)—"I am doing nothing just now but a number of topics (higher powers and higher human faculties, sexual Wallace, this was less a matter of full break than of minor difference. Wallace wrote to Darwin in that same letter of 1870, "We still agree, I am these objections have been shown to be fallacious" (1910, 271). As World of Life, he proclaimed of criticisms of Darwin's work: "Most of titled a collection of his essays on evolution Darwinism, or when, in A too, Wallace still considered himself a part of the fold when, in 1889, he And certainly any review of Wallace's output in these years confirms the writing articles and putting down anti-Darwinians" (Marchant 1916, 209). Selection (with its closing essay making clear his beliefs on the limits of after the publication of his Contributions to the Theory of Natural proponent of Darwin's thought. He wrote to Darwin in November 1870the related issue of group evolution19, but he also saw himself as a firm selection and female choice, the exact dynamics of mimicry, sterility and Wallace himself certainly recognized his divergence with Darwin, over

The same could be said of Darwin, too. Certainly they differed, sometimes significantly. As Darwin put it in 1870, of Wallace's "remarks on Man": "As you expected, I differ grievously from you, and I am very sorry for it" (Marchant 1916, 199). But they also continued to correspond; their last letters were exchanged in 1881, just the year before Darwin's death. Darwin continued to appreciate Wallace's contributions in defense of their theory, from his "crushing review" (Marchant 1916, 223) in Nature, "The Last Attack on Darwinism" (Wallace 1872c), to his assault on Saint George Mivart's critique (Wallace 1876b), of which he wrote: "I thank you most cordially for your generous defence of me against Mr. Mivart" (Marchant 1916, 238). Darwin had high praise for Wallace's Island Life (1878): "It is quite excellent, and seems to me the best book which you have ever published" (Marchant 1916, 252). And of Wallace's re-engagement with the issue of speciation in "Origin of Species and Genera" (Wallace 1880), Darwin insisted: "you must allow me to express

my lively admiration of your paper" (Marchant 1916, 249). Such expressions of praise seem more than merely polite.

be a pallbearer at Darwin's funeral. ensure Wallace's financial security by getting him a Crown pension in would be recruited to do the job). And Darwin worked assiduously to new edition of Descent (Marchant 1916, 231,2), a striking sign of arguments about ancient man (detailed below; in Descent, 778) and his explaining higher faculties (855) and, most extensively, over sexual 1881(Desmond and Moore 1991, 646-48); the next year, Wallace would Darwin's confidence in Wallace's work (eventually, Darwin's son George Darwin considered employing Wallace to do editing and corrections for a framing of the question of natural selection (978). The following year, about butterflies and observations of nature, but also over Wallace's early selection (1108 ff.)—a broad range of agreement, including not just points in addition to notable difference—over the utility of natural selection for 289). A careful examination of references to Wallace in Descent suggests, however, when he goes on to argue: "This was not mere flattery, however. Darwin countered every issue that Wallace had addressed" (Slotten 2004, than to those of any other source." Slotten misrepresents the case, points out, in Descent, Darwin "made more references to Wallace's views have spoken fairly of your views" (Marchant 1916, 211). As Ross Slotten "I hope to God there is nothing disagreeable to you in Vol. II., and that I his differences with Wallace most fully, he worried in a letter to Wallace: As Darwin was preparing Descent of Man, the volume which would air

natural selection as a foundational mechanism, is clear in these works, and culminated in works that firmly situated man within an evolutionary regularly been argued that Wallace's work, in this case as in that of carefully elided the application of evolutionary principles to humans in divergence between their positions, despite their shared commitment to (1870) and Darwin's Descent of Man (1871), along with its book-length Desmond and Moore 2009, 358-60).²¹ Their explorations in the 1860s Origin, pushed Darwin to publish his own account (Schwarz 1984; beginning to fill in that hole during the following decade, and again, thought and the racial politics of the 1860s. Both Wallace and Darwin had of Wallace's growing interest in Spiritualism, less in biographical terms postscript Expression of Emotions in Man and Animals the next year. The framework: Wallace's Contributions to the Theory of Natural Selection Wallace got there first, with his 1864 work on human races; indeed, it has their initial public revelation of natural selection in 1858-59. Both were than within the framework of the developing arguments of evolutionary With this as context, then, it is worth recalling the broader dimensions

they are separated by more than just Spiritualism (and Wallace's associated claims-about the limits of natural selection as an explanatory mechanism); in particular, in terms of scientific ideas, Wallace also rejected Darwin's account of sexual selection, both insofar as it conflicted with his own accounts of animal mimicry and because he was unconvinced by Darwin's arguments on behalf of female choice in mate selection. For Wallace, the 1860s was also the decade during which he got involved with the fraught world of London's battling anthropological associations (it was the decade, too, of the great struggle between monogenists and polygenists over human origins), as he began to work through the implications of evolution for man. Darwin, as noted, was engaged in the latter project at the same time, and once again Wallace was in the lead in terms of readying material to present to the public.

course, been anticipated by Darwin, and addressed in Origin (in the evolutionary thought on the issue of complexity, one of the core problems selection in Descent, for example, begins with eleven chapters of established facts about the animal kingdom; Darwin's argument for sexual continuously rooting their arguments in what they took to be already attitudes, especially about man's unique place. Both proceeded cautiously, challenges to Wallace and Darwin. First, and most obviously, talking and Wallace becomes clear. of Life in 1910). It is on this terrain that the divergence between Darwin chapters from then on (for instance in Darwinism in 1889 and The World returned to with a vengeance in the treatment of emotional expression in issues were dealt with by Darwin in the fifth chapter of Descent, and capacity, consciousness, moral and ethical behavior, altruism. All these key issues were the development of "higher powers" in man: intellectual amplified the challenge. In particular, for both Darwin and Wallace, the famous account of the eye [1859, 569-71]), but the turn to the human for critics of the theory (then and now); the general problem had, of Furthermore, focus on human evolution radically pushed the boundaries of Contributions to the Theory of Natural Selection concern men. chapters on man, and similarly only the final two chapters of Wallace's discussion of the phenomenon in varied animals before offering two foundational challenge to conventional Victorian (and pre-Victorian) directly about humans in an evolutionary framework presented a more Contributions, and again in his Spiritualist writings, and typically in final Expression; they are treated by Wallace in the final chapter of The turn to human evolution presented special, but essentially parallel,

Wallace began, somewhat tentatively, to raise the issue of human evolution in a paper presented at the British Association in 1863 (and re-

not necessarily imply the want of capacity to receive it" (Wallace 1863/1864, 206). ²² But at this stage he drew no broader conclusions. regime: "Here I think, we have a proof that the absence of civilization does northern Celebes and what he sees as the positive results that came when commixture have taken place, yet the division is on the whole almost as races in the Malayan Archipelago. In that paper, he argued that the broad presented for the Ethnological Society the following year), focusing on the Dutch "took them in hand" [206] and imposed a colonial/plantation the capability of "savage" peoples for civilization, in his discussion of the peopling of the archipelago (212-13). He also snuck in an assertion about [210]), and employed Darwin's Coral Reefs to construct an account of the ("we now have to place of origin of man at an indefinitely remote epoch" Michaux 2008, 179-81]), took as basic ground the ancient origins of man however contentious, is still called the "Wallace line" [Fichman 2004, 46; divisions of the archipelago" [1863/1864, 211], a dividing line which, well defined and strongly contrasted as are the corresponding zoological Pacific races, and though along the line of junction intermigration and ("This line will separate the Malayan and Asiatic from the Papuan and divide of human races corresponds to a similar break in zoological species

In 1864, Wallace stretched his arguments significantly in "The Origin of Human Races and the Antiquity of Man Deduced from the theory of 'Natural Selection,'" a paper first presented before the breakaway (and largely polygenist) Anthropological Society of London in 1864; indeed, Wallace hoped the framework he proposed would, as Fichman notes (2004, 153-55), provide a solution to the vexed debate between polygenists and monogenists over human origins. It did no such thing, of course; polygenists like James Hunt rejected it wholesale, in part because it gave too much credit to "lower races" in terms of their level of development and potentialities, and in part because of resistance among anthropologists to Darwinian thought (Stocking 1987, 248-257). Wallace's argument separated phases of human history, from an early phase (monogenist), in which natural selection operated on humans, to a later one (coincident with the divergence of races), in which it ceased to play a role because of the evolution of the human mind and the operation of culture:

As the earth has gone through its grand cycles of geological, climatal and organic progress, every form of life has been subject to its [natural selection's] irresistible action... At length, however, there came into existence a being in whom that subtle force we term *mind*, became of greater importance than his mere bodily structure.... From the moment when the first skin was used as a covering, when the first rude spear was

formed to assist in the chase, the first seed sown or shoot planted, a grand revolution was effected in nature ... for a being had arisen who was no longer necessarily subject to change with the changing universe (1864, clxviii).

Thus civilized progress works through mechanisms that depart from the law of natural selection that holds for the animal world.

Within that framework of culture Wallace located the continued development with which he explained the divergence of races:

From the time, therefore, when the social and sympathetic feelings came into active operation, and the intellectual and moral faculties became fairly developed, man would cease to be influenced by "natural selection" in his physical form and structure.... But from the moment that his body became stationary, his mind would become subject to those very influences from which his body had escaped ... and that rapid advancement of mental organisation would occur, which has raised the very lowest races of man so far above the brutes (although differing so little from some of them in physical structure), and in conjunction with scarcely perceptible modifications of form, has developed the wonderful intellect of the Germanic races (Wallace 1864, clxiii-clxiv).

In the ensuing and continuing contest among races, Wallace argued, the "great law of 'the preservation of favoured races in the struggle for life' ... leads to the inevitable extinction of all those low and mentally undeveloped populations with which Europeans come in contact' (clxiv-clxv), a position showing the deep influence on Wallace's thinking of extinctionist discourse, especially prominent in polygenist writings on race by the likes of Hunt and Richard Burton, and also illuminating Wallace's reading of Thomas Malthus's population studies (Brantlinger 2003, 184-85).

At the same time, the close of his paper offered a vision of future racial amalgamation and improvement:

While his external form will probably ever remain unchanged, except in the development of that perfect beauty ... refined and ennobled by the highest intellectual faculties and sympathetic emotions, his mental constitution may continue to advance and improve till the world is again inhabited by a single homogenous race (Wallace 1864, clxix).

While this one-race future is, indeed, predicated on extinction (since "it must inevitably follow that the higher—the more intellectual and moral—must displace the lower and more degraded races"), it also imbeds a

progressive utopian-socialist future in which "Each one will then work out his own happiness ... perfect freedom of action will be maintained ... [and] compulsory government will have died away as unnecessary" (Wallace 1863, clxix). ²³ Members of the London Anthropological Society were, not surprisingly, unpleased; the paper prompted extensive, mostly sharply critical discussion, incorporating, in addition to Hunt's amusing insistence that the Neanderthal skull "is simply the skull of an idiot" (clxxviii) rather than a separate species, broad-based attacks on Darwinian evolution, Wallace's reading of racial questions, and Wallace's progressive vision of the future (clxx-clxxxvii).

not yet embraced (Richards 2003, 103, 114 n. 37) and opened the door to of human evolution in 1869-71 in several respects: their differences over alternative explanations. populations both moved him toward group selection in ways Darwin had sexual selection were already becoming apparent, and Wallace's argument divides that will mark Darwin's and Wallace's approaches to the question equally uncertain in its results" (130). The differences here portend the argument: "The sexual selection you allude to will also, I think, have been employed sexual selection as the mechanism for its continuance (128). selection in some respects, especially in relation to racial differences, and only as grand and most eloquently done," although he went on to note "I for the operation of something other than natural selection in human brutes alike" (Marchant 1916, 129), but countered Darwin's alternative few smaller points in which Natural Selection may still act on men and In particular, Darwin wanted to argue for a continuing operation of natural am not sure that I go with you on all minor points" (Marchant 1916, 127). intellectual and moral qualities. The latter part of the paper I can designate you that the struggle between the races of man depended entirely on have been modified more than the body; yet I had got as far as to see with leading idea is quite new to me, viz. that during late ages the mind will Wallace conceded, in a letter in reply: "I therefore no doubt overlook a Darwin, however, praised the essay in a letter to Wallace: "The great

Still, those divides were more minor and less apparent at this phase of the development of their respective ideas. Even when, in 1870, Darwin was writing to Wallace that "I groan over Man" (in reference to Wallace's claims about higher powers and human development), he added, referring back to this work: "and you the author of the best paper that ever appeared in the *Anthropological Review*!" (Marchant 1916, 206). And in *Descent*, referring to Wallace's "admirable paper," Darwin wrote:

The case, however is widely different, as Mr. Wallace has with justice insisted, in relation to the intellectual and moral faculties of man.... Of the

high importance of the intellectual faculties there can be no doubt, for man mainly owes to them his pre-eminent position in the world (Darwin 1871, 867-88).

Darwin granted divergence between races in terms of "intellectual faculties" (although to less a degree in his account), and even conceded the extinction point, noting that "civilized nations are everywhere supplanting barbarous nations," but insisted nevertheless that it was "highly probable that with mankind the intellectual faculties have been gradually perfected through natural selection" (Darwin 1871, 867-88) rather than that evolutionary processes were superseded by some other mechanism. Wallace's account still provided a starting point for him.

It is in 1869 that Wallace makes his next step, at the tail end of a review of Charles Lyell's work (and Lyell's long-awaited embrace of natural selection). After an extended overview of Lyell's geological principles (Wallace 1869a, 360-80), and a discussion of Lyell's move from opposition to support of Darwin's theories that is as much capsule summary of Darwin as treatment of Lyell (380-90), in his closing pages he presents his challenge:

But if the researches of geologists and the investigations of anatomists should ever demonstrate that he [man] was derived from the lower animals in the same way that they have been derived from each other, we shall not be thereby debarred from believing, or from proving, that his intellectual capacities and his moral nature were not wholly developed by the same process. Neither natural selection nor the more general theory of evolution can give any account whatever of the origin of sensational or conscious life (391).

Not surprisingly, it is the brain that Wallace first notes as exceptional, arguing that "Natural selection could only have endowed the savage with a brain a little superior to the ape, whereas he actually possesses one but very little inferior to that of the average members of our learned societies" (392). But he goes on to argue that other features—man's hand, "his erect posture, his delicate yet expressive features, the marvelous beauty and symmetry of his whole external form" (392), his naked skin, and speech—similarly belie, in Wallace's account, merely selective advantages. This leads him to conclude:

While admitting to the full extent the agency of the same great laws of organic development in the origin of the human race as in the origin of all organized beings, there yet seems to be evidence of a Power which has

guided the action of those laws in definite directions and for special ends (393).

And this, in turn, led Darwin, who marked the passages in his own text and wrote a firmly underlined "No" in the margins (Desmond and Moore 1991, 569), to fear that Wallace had "murdered too completely your own and my child." Lyell, interestingly, would take Wallace's part in this argument, writing to Darwin: "I rather hail Wallace's suggestion that there may be a Supreme Will and Power which may not abdicate its function of interference but may guide the forces and laws of Nature" (qtd. in Kottler 1974, 153 n. 22). Lyell, however, here takes Wallace's position as essentially a form of Paleyite natural theology, as indeed Darwin himself might have done, too, when he wrote to Wallace that, in the section on man in the review, "you write like a metamorphosed (in retrograde direction) naturalist" (Marchant 1916, 206). But Wallace was up to something decidedly different.

sound, 356-57). For Wallace, these attributes were "utterly inconceivable our other vital phenomena" (Wallace 1870a, 362; Huxley 1868, 154), expression of molecular changes in that matter of life which is the source of Moving on to challenge Huxley's materialist assertion that "thoughts are the as man guides the development of many animal and vegetable forms" (359). development of man in a definite direction, and for a special purpose, just race," and it therefore followed "that a superior intelligence has guided the can look only, to the immediate material welfare of the individual or the as having been produced through the action of a law which looks only, and producing capacities of the larynx (including the capacity for musical skin, the perfect form of the human foot, and the complexity of soundharmony" (357), but also, somewhere below that, the nakedness of human eternity and infinity, and all those abstract notions of form, number, and honesty, altruism, "pure morality" (356), and the "power of conceiving madequate to account for the development of the moral sense" (Wallace mechanism more clearly. He asserted first that: "The utilitarian hypothesis Natural Selection, Wallace began to articulate his argument and specify a forces are all that exist in the material universe," and then that "all force is popularly understood, does not exist," and it followed first, "that force or Wallace proposed a far less materialistic counterhypothesis: "matter, as that created no evolutionary advantage to the holder: on the "higher" plane Wallace also insisted that the traits had no use among "savage" tribes), and he argues, were shared by uncivilized and civilized men alike (although 1870a, 352). Wallace then further developed his list of human traits that, (which is the theory of natural selection applied to the mind) seems In 1870, in an added closing chapter of Contributions to the Theory of

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probably will-force" (Wallace 1870a, 366). From this in turn it followed for Wallace: "the whole universe, is not merely dependent on, but actually is, the WILL of higher intelligences or of one Supreme Intelligence" (Wallace 1870a, 368).²⁴ This relocated the basic engine for human development from the realm of the material entirely, and made the driving force behind the development of humankind a spiritual one ("intelligences" or "Intelligence"; Wallace leaves the two alternatives open).

again narrowed, Huxley could conclude: ordinary Englishman" (175). With the gulf between savage and civilized labour of a 'good hunter or warrior' considerably exceeds that of an Add to all this the knowledge which a savage is obliged to gain" about selection later in the volume (1108 f.). Huxley similarly undercut more extensive, however, is Darwin's debate with Wallace over sexual this meant: "In complexity and difficulty, I should say that the intellectual plant and animal life, culture, language, and much else (174). For Huxley, Animals" (Huxley 1871, 174), and then adding: "But it is incomplete. passage which occurs in his instructive paper on 'Instinct in Man and knowledge, partly by quoting Wallace back at him, in "a remarkable characteristics by insisting they were not so special after all (856). Far among primates that sought to undermine Wallace's list of special human in the former. He followed this up with an account of hands and voice man, Darwin questioned Wallace's claims for superfluous brain capacity narrowing the chasm in Wallace's account between primitive and civilized a brain a little superior to that of an ape" (1871, 854-55). In effect, by Wallace's argument by insisting on the complexity of "savage" maintains, that 'natural selection could only have endowed the savage with concluding: "I cannot, therefore, understand how it is that Mr. Wallace the wide range of human invention even of "Man in his rudest state," savage intelligence as a means to undercut his argument by insisting on took it on, rather briefly, in Descent. He undermined Wallace's view of Both Darwin and Huxley challenged Wallace's new position. Darwin

If we admit, as Mr. Wallace does, that the lowest savages are not raised 'many grades above the elephant and the ape;' and if we further admit, as I content must be admitted, that the conditions of social life tend, powerfully, to give an advantage to those individuals who vary in the directions of intellectual or aesthetic excellence, what is there to interfere with the belief that these higher faculties, like the rest, owe their development to natural selection?" (178-79).

For Huxley as for Darwin, sexual selection provided a mechanism as powerful as any spirits.

Just as with Lyell's response to Wallace's review, among modern writers Wallace's new position is routinely labeled a move toward "theism" (see, for example, Fichman 2001; Gould 1980, 53), but that sort off misses what he is up to, and how his Spiritualism figures into the story. As he elaborated in a footnote to this section in the second edition of *Contributions*, denying that "I imagine that this 'higher Force' is the Deity," Wallace noted:

I can only explain this misconception by the incapacity of the modern human mind to realise the existence of any higher intelligence between itself and Deity. Angels and archangels, spirits and demons, have been so long banished from belief as to have become actually unthinkable in real existence (Wallace 1871b, 372).

He also firmly distanced himself from the philosophical discourse of first causes, insisting that the words he selected "were purposely chosen to show, that I reject the hypothesis of 'first causes' for any and every *special* effect in the universe" (372). Wallace thus posited higher spirits, not gods, as guides of evolutionary progress.

When he returned to the topic of Spiritualism, and provided a more forthright advocacy (over his earlier mere insistence that it deserved investigation), in "Defence of Modern Spiritualism" (1874), he distanced his position from theistic belief even more clearly. There, he first underlined the gap between his belief systems and conventional Christian orthodoxy:

How is it, then, that the usual orthodox notions of heaven are *never* confirmed by them? In the scores of volumes and pamphlets of spiritual literature I have read, I have found no statement of a spirit describing 'winged angels,' or 'golden harps,' or the 'throne of God'—to which the humblest orthodox Christian thinks he will be introduced if he goes to heaven at all. There is no more startling and radical opposition to be found between the most diverse religious creeds, than that between the beliefs in which the majority of mediums have been brought up and the doctrines as to a future life are delivered through them (1874a, 804-05).

And he articulated his alternative, the "higher intelligences" he chose to see as the guiding forces of progressive change:

1. Man is a duality, consisting of an organized spiritual form, evolved coincidentally with and permeating the physical body.... 2 Death is the separation of this duality, and effects no change in the spirit, morally or intellectually. 3. Progressive evolution of the intellectual and moral nature

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is the destiny of individuals.... 4. Spirits can communicate through properly-endowed mediums (801).

Wallace may have been convinced of higher powers, but he remained still deeply unchurched, and "theism" does not quite describe this position.

In "Defence," not only did Wallace still conceptualize Spiritualist investigation as science, as he had since 1866, he also drew on anthropological work to secure his argument. Spiritualism in its modern manifestation could also, Wallace suggested, explain "the oracles of antiquity," miracles in the Bible and in Catholic saints' lives, "witchcraft," and "the so-called superstitions of savages" (798-99). Thus, in both the examples he drew upon to make his case, in his fundamental premises (always more Spencerian and always more oriented toward hierarchies of civilization than Darwinian, given Darwin's insistent tendency to minimize the distinctions among races), and in the terms of his understanding of "race," the influence not just of Spiritualist beliefs but of Wallace's anthropological leanings on his thought are clear.

insisting that Darwin, in, sufficient explanation. In conclusion, however, Wallace returned to praise, competition with animals or struggle with other tribes provided a his nearest allies is what is so difficult to account for" (183), and neither usual list of defining traits: "The vast amount of the superiority of man to his present high position" (183). But, for Wallace, falling back on his alone Mr. Darwin thinks would, under favourable conditions, raise man to animals, and when they were surpassed between tribe and tribe; and this noted: "The agency through which this vast transformation occurred was and cultural, that separate man from "his brute ancestor" (182), Wallace the issue of man's higher powers. Noting the range of changes, physical the struggle for existence and natural selection—a struggle first with other operation" (177). Wallace devoted an extensive portion of his review to "This new branch of science is one of the most striking creations of Mr. closely on his difference with Darwin over sexual selection, declaring: Academy, after an extended summary of Darwin's book, Wallace focused the issue of sexual selection (179-83), reserving for the final paragraphs Darwin's genius... although we believe he imputes far too much to its his own work "Darwinian." Thus, reviewing Descent of Man for The differences from other evolutionary thinkers, while still resolutely labeling progress, working across his disciplinary ranges. He continued to mark his Through the 1870s, Wallace's publications charted his distinctive

one of the most remarkable works in the English language ... has all but demonstrated the origin of man by descent from some inferior animal form ... has proved the vast importance of sexual influences in modifying ... the

more highly organized animals—and ... has thrown fresh light upon the intricate question of the mode of development of the moral and intellectual nature of man" (183).

Wallace also remained active throughout the decade defending Darwinism against its challengers, in reviews of such opponents as Charles Bree (1872c) and Mivart (1874b, 1876b). And he continued his own naturalistic and biogeographic studies, collecting work in these territories in *Tropical Nature* (1878), and in 1880 publishing *Island Life*, a magisterial account of the diffusion of animal and plant species, employing new geological understanding and evolutionary mechanisms to underpin his argument, and building on Darwin's own work in the Galapagos.²⁵

Meanwhile, he picked fights with anthropologists. In a review of Edward Tylor's *Primitive Culture* in 1872, Wallace accused Tylor of "great looseness of statement" in his "attempts to account off-hand for superstitions." Wallace called on his experiences with séances to challenge Tylor's account of early modern witchcraft and used mesmerism to explain werewolf beliefs more adequately than Tylor did (1872a, 70). Tylor, responding to the review, suggested that Wallace's mesmerism argument in fact undercut his Spiritualist convictions:

I think it may bring about investigations leading to valuable results if Mr. Wallace will inform spiritualists ... that he believes in the existence of a class of men who, in his words, have exceptional power of acting upon certain sensitive individuals, and can make them, when so acted upon, believe they see what the mesmeriser pleases (Tylor 1872b, 343).

He goes on to suggest that "some of his objections to my ethnological treatment of spiritualism are unreasonable, and especially I wonder that so serious a student of natural science should make it a ground of complaint" (343).²⁶ Wallace, in response, would insist on the difference between mesmerist and Spiritualist experience, and suggest Tylor's attitude "is a most convincing proof of Mr. Tylor's very slender acquaintance with either of them" (1872b, 363). Wallace also in 1876 re-engaged with the territory of ancient man, seeking to explain in the context of recent investigations both human evolution and distinctive features of ancient civilizations. After examining a range of examples (most extensively treating Easter Island heads, English and European megaliths, and the pyramids), Wallace asserted that such evidences

point to the conclusion that ... man's intellectual and moral development reached almost its highest level in a very remote past. The low, the more animal, but often the more energetic types have, however, always been far

more numerous; hence such established societies as have here and there arisen under the guidance of higher minds have always been liable to be swept away by the incursions of barbarians (1876, 301).

In this passage, Wallace's hierarchical racial views, ideas about guided evolution, and eugenic tendencies all coalesced.

Meanwhile, as well, Wallace continued to elaborate his Spiritualist beliefs. He collected (and expanded) his essays on the subject in *Miracles and Modern Spiritualism* (1875); most significant among the modifications was the addition of more testimony and evidence to his 1866 essay (Wallace 1875, 54-70), the added "Notes of Personal Evidence" to provide his own observations (126-41), and the inclusion of an appendix responding to Edward Carpenter's attack on Spiritualism (279-86). Indeed, tangling with Carpenter, one of the period's most active critics of Spiritualism and exposer of fraudulent mediums, would take up significant time for Wallace (Wallace 1876a and b), and Wallace also got into public disputes over Spiritualism in urging the British Association to investigate the phenomena and giving testimony at the notorious Slade trial (on these activities, see Fichman 2004, 181-92; Kottler 1974, 172-80; Slotten 2004, 304-20).

And, although his output would decline in the subsequent decades, for him these concerns would remain central to the end of his life. In the final chapter of *Darwinism*, Wallace would restate, while reconfiguring, his argument for the insufficiency of natural selection as a mechanism to explain the higher capabilities of man. Outlining human mathematical, artistic, and musical faculties, and insisting of them all that they "either do not exist at all or exist in a very rudimentary condition in savages, but appear almost suddenly and in perfect development in the higher civilized races" (Wallace 1889, 473), Wallace concludes: "we, who accept the existence of a spiritual world, can look upon the universe as a grand consistent whole adapted in all its parts to the development of spiritual beings capable of indefinite life and perfectibility" (477), and that, for the origin of human "intellectual and moral faculties ... we can only find an adequate cause in the unseen universe of Spirit" (478). To this position Wallace adhered to the end of his life, restating it in *The World of Life* (1910):

But to claim the Infinite and Eternal Being as the one and only direct agent in every detail of the universe seems, to me, absurd.... There are now in the universe infinite grades of power, infinite grades of knowledge and wisdom, infinite grades of influence of higher beings upon lower (Wallace 1910, 400).

This is, essentially, the position he had already staked out in 1870-71.

For Wallace, then, there is no way to separate his Spiritualism from his scientific investigations, and no way for that matter to separate his biological science from his social science of anthropology. Wallace's final position, of spirit-guided evolution supplanting natural selection as a mechanism for higher human faculties, was developed at the nexus of his intertwined pursuits of the natural sciences of biology and geology, a racially centered anthropology, a progressivism that combined socialist and Spencerian doctrines, and Spiritualist convictions. For us, that requires a more sensitive and nuanced reading of his legacy, attuned not just to the role of Spiritualism in later Victorian culture, but also to the ways in which disciplinary affiliations could push the direction of both scientific and religious thought.

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Wilson, Edward O., ed. 2006. From So Simple a Beginning: The Four-Great Books of Charles Darwin. New York: W. W. Norton.

Note

¹ This, along with almost all of Wallace's published work, a significant body of commentary by his contemporaries, and a range of criticism by modern writers, is available in digitized format (with original pagination) or through web links at the Charles H. Smith's valuable Alfred Russel Wallace Page

(http://people.wku.edu/charles.smith/index1.htm).

For Owen, this constitutes the foundation of her argument for occultism as a response to modernity, interposing to the "leading dilemmas of modern existence" a new form of "occult subjectivity" that was "resistant—but also, in key respects, accommodating" in respect to the challenges of the fin de siècle (238). Frank Miller Turner similarly writes of Wallace's last major publications: "The method, reasoning, and purpose of these last books were far removed from scientific naturalism," although he concedes that "For Wallace himself, they represented a direct continuation of the purpose of scientific venture" as he had formulated it in 1843 (Turner 1974, 101).

³ It is, admittedly, loading the dice a bit to compare Wallace's work with this particular Darwin piece; perhaps Darwin's most daring exploration of the implications of evolutionary processes of man (which is, already, saying a lot), it was, despite its enormous popularity in Darwin's time, rapidly discredited by later evolutionary thinkers. Paul Ekman offers a five-fold explanation for its disappearance from the canonical Darwin shelf, noting criticism of its anthropomorphism, anecdotalism, and Lamarckian tendencies in particular (Ekman 1973, 2-6). Given the sorts of responses Wallace's spiritualist writings engendered,

there is some deep irony in Wallace's review of Darwin's Expressions: "It is rather curious that an author who is not usually satisfied with anything less than a real and intelligible explanation, should yet be so ready, in some cases, to admit innate ideas or feelings.... Somewhat akin to this is a readiness to accept the most marvellous conclusions or interpretations of physiologists on what seem very insufficient grounds" (Wallace 1873, 117).

⁴ The defense of miracles is a subject to which Wallace would return, expanding in particular his attack on Hume. See Wallace 1870b.

Wallace gives his own full accounting of his spiritual encounters and their impact on his thinking in his autobiography, My Life: A Record of Life and Opinions (1905; rev. ed. 1908), ch. 21. Perhaps the most full elaborations of Wallace's intellectual development on these points is in the works of Charles Smith (1992/1999, 2003-2006, 2008a, 2008b), but see also Kottler 1974, Brackman 1980, ch. 34; Turner 1974, ch. 4; Slotten 2004, chs. 13-14; Fichman 1981, 122-31 and 2004, ch. 4; Moore 2008; Benton 2008; Raby 2001, chs. 10-11; Richards 1987, 176-184; Pels 1995; or, with rather more skepticism, Shermer 2001, ch. 8 (reprinted in Shermer 2002, ch. 7).

editor denying the charge that he is an atheist; see Huxley 1866): "With regard to Supernatural opened with an epigraph from Huxley (plucked from a letter to the to do, I put them in the same category.... Better live a crossing-sweeper than die should decline the privilege, having better things to do. And if the folk in the Madame Blavatsky, interestingly, would borrow the same quotation; Blavatsky an aphorism with which I am wont to worry my friends" (1866, i). (Theosophist applicable to matters of philosophy. That the possibilities of nature are infinite is the miracle question, I can only say that the word 'impossible' is not to my mind belief; see, for example, Huxley 1889. Ironically, Wallace's Scientific Aspect of the 1871b). Huxley's anti-Spiritualism would prove as long-lasting as Wallace's and be made to talk twaddle by a 'medium' hired at a guinea a séance" (Huxley spiritual world do not talk more wisely and sensibly than their friends report them genuine—they do not interest me. If anybody would endow me with the faculty of Spiritualism, Huxley wrote to decline: "But supposing such phenomena to be listening to the chatter of old women and curates in the nearest cathedral town, I 1875, 1:223.) Similarly, when invited by the London Dialectical Society to investigate

It does not follow, however, that Victorian anthropologists universally embraced Spiritualism. James Hunt, for example, as we will see, lampooned Wallace's Spiritualist convictions. And Thomas Huxley, whose disciplinary links were much closer to Wallace—both were deeply involved in anthropology in the 1860s-70s, Huxley turned to the question of human evolution concurrently with Wallace (and well before Darwin; see Huxley 1863), and Huxley shared at least some of Wallace's convictions about the broader social implications of evolutionary thought (see especially Huxley 1894)—was, as noted, ferocious in his dismissal of Spiritualism.

⁸ This will become especially clear in his debate with E. B. Tylor of "superstition," discussed below.

⁹ For a sense of how deeply race shaped anthropological thought in the period, see what amounts to the first real textbook of anthropology, E. B. Tylor's *Anthropology: An Introduction to the Study of Man and Civilization* (1881), and note in particular the opening chapter's discussion of contemporary racial distinctions, the return to racial categories as a lead-in to the discussion of cultural forms in chapter 3, and the routine ranking of races (as "lower" and "higher") throughout. For context on these developments, see Lorimer 1988, Stocking 1987 (esp. ch. 5), and Salesa 2011, 148-151. On the extinction discourse in the period, see Brantlinger 2003 and Brantlinger 2011, esp. Part III.

that Wallace did not share the racist views of his time. Stephen Jay Gould, for example, insists that "Wallace was one of the few nonracists of the nineteenth century" (1980, 54), and Frank Miller Turner argues that "Alfred Wallace had never shared in the midcentury chauvinism over the alleged superiority of European civilization" (1974, 84). But in fact the best that can be said is that Wallace was significantly less racist than some of the people (James Hunt, Richard Burton) with whom he was hanging out at meetings of the London Anthropological Society. For a more balanced view, which takes into account both Wallace's "Rousseauistic" sympathy for "savage" life and socialist hope for progressive amelioration on the one hand, and his continued commitment to developmental race views and endorsement of the discourse of extermination of lower races on the other (but omits his Spiritualism entirely), see Brantlinger 2003, 182-88; see also Fichman 2004, 154. For a parallel view that ideas about race underpin Wallace's divergence from Darwin, see Glickman 2009.

¹¹ The reference is to Sir John Sebright (1767-1846), famed animal breeder and author of *The Art of Improving Breeds of Domestic Animals* (1809). Darwin mentions Sebright's work in *Origin* (1859, 461, 468) and in *Variation of Animals and Plants under Domestication* (1868, II: 115-17, 121, 124, 126, 197-98).

and Plants under Domestication (1868, II: 115-17, 121, 124, 126, 197-98).

¹² Interestingly, Romanes here, it can be noted, puts Wallace's socialist politics (embodied in his call for land nationalization) on a par with his Spiritualism. For the political development of Wallace, from his early Owenite socialism to his later advocacy of land nationalization, see especially Stack 2008, and also Claeys 2008. But that, for Romanes, socialist ideas and Spiritualist convictions are equally suspect provides a window on the political dynamics that also separated Wallace from the Darwinian fold.

from the Darwinian fold.

13 It is striking how frequently religious descriptions figure in discussions of Wallace's differences from Darwin: Ross Slotten (2004) also designates Wallace a "heretic," Arnold Brackman refers to his "heretical essay on man" (1980, 282), and Frank Miller Turner to his "heresy" ((1974, 95). Peter Raby (2001, 203), Michael Ruse (1989, 48), and Stephen J. Gould (1980, 53) refer to his "apostasy." Wallace bears some of the blame, for himself referring to his "heterodox opinions as to man" (Marchant 1916, 205) and "little heresy" (qtd. in Raby 2001, 203; Gould 2008, 53).

¹⁴ Given the extent to which Berry's comments seem to depart from most other accounts of the man—John Durant is more typical when he writes "There are few more likable figures in the history of science than Alfred Russel Wallace. A warm-

even mentioning) his final conclusions, we shall continue to leave them to one grounds for divergence from Darwin without fully taking into account (or often Shermer 2012). Since Intelligent Design thinkers tend to endorse Wallace's carried out between Michael Flannery and Michael Shermer (Flannery and advocates of Intelligent Design, who have found in Wallace a proto-believer. See, contemporaries, then, the evidence suggests no lack of "social empathy" whatever. dimension was both welcome and reassuring" (234). For Wallace's ability to reconcile conviction about natural selection with belief in a spiritual a socialist" (61). Raby does say that Wallace "rather tactlessly" (233) expressed his for example, Flannery 2010 and the debate about Wallace and Intelligent Design 15 This leaves to one side one group who has claimed Wallace as a forebear: Wallace, meeting Alfred Tennyson, "chose this occasion to lambast the House of Lords and the hereditary principle," being "at that stage close to declaring himself surely reflects this." For these claims, Berry cites his own earlier work on Wallace with his fellow Victorians. He was socially awkward. His inability to land a job ... to have got on rather better with the local people he encountered on his travels than political views, but goes on to note: "A few weeks after his meeting with Wallace, to Darwin, who was "an agreeable companion, a popular figure," Wallace "seems is worth wondering precisely what Berry means here. Berry argues that, in contrast for what one contemporary has called 'the charm of his personality'" (1979, 3)—it hearted and generous man, he won the admiration of virtually all who knew him Tennyson was still talking about him.... For individuals like Tennyson, Wallace's further bolster his assertion, Berry recounts the anecdote Raby tells of when Wallace's writings, which would hardly support such claims (Berry 2002). To (without referring to specific pages), but that work is mostly an anthology of

Fichman 2004, 260-262), but his relationship to eugenic thought is quite complex, Fichman 2004, 260-262), but his relationship to eugenic thought is quite complex, balancing his evolutionary convictions, his belief in racial hierarchies, and a class-grounded socialistic progressivism. Although he chafed at the class biases of much eugenic thought, he gave Galton's *Hereditary Genius* (1869) a positive review (Wallace 1870c), and even while denouncing mainstream eugenics thought as "detestable," his own vision of social progress remains essentially a form of eugenic solution, rooted in both in Galton's heredity studies and a socialistic vision of the future that would ensure "the agency of female choice in marriage" (Wallace 1890, 329, 335). For a more balanced view, see Paul 2008.

¹⁷ Smith's online work has separately paginated chapters, so the first number refers to the chapter, the second to the page.

¹⁸ To be fair, Fichman would later change his tune: "The majority of Wallace scholars have interpreted his 1869-70 views as representing a volte-face with respect to his previous conceptualization of evolution. This presumed radical shift is usually attributed to Wallace's growing involvement with spiritualism in the period 1865-1870. If, however, his thoughts and writings from 1845 to 1870 are analyzed within the broader framework of Wallace's holistic approach to human evolution, a different picture emerges..... Wallace's modifications of certain causal

explanations of human evolution were developments from, not repudiations of, his earlier, preliminary hypotheses" (2004, 194).

¹⁹ For handy summaries of the issues that separated them as *Descent* went into print, see Desmond and Moore 2009, 358-73; Richards 2003, 100-09.

print, see Desmond and Moore 2009, 358-73; Richards 2003, 100-09.

Marchant attempted to collect the full extant correspondence, and it is extensive

(1916, 105-262).

21 Darwin himself wrote to Wallace in April 1869: "I have been particularly glad to read your discussion, because I am now writing and think much about Man" (Marchant 1916, 199). But it is unclear from that context to what extent Darwin was prodded by Wallace into thinking about man, or simply saw Wallace's contribution as material he would need to address (as Richards implies [2003, 103-05]).

Wallace's collections of his papers often add final essays that fundamentally shift reprints often feature fiddling with final pages and concluding arguments, and can also be noted that this constitutes a recurrent pattern in Wallace's writing: Owenite-derived socialist tendencies (about which see especially Claeys 2008). It argument (for broader context about which see Brantlinger 2003), and his anthropological thought, evident in his unquestioning embrace of the extinctionist on human races, discussed below. The new closing, it can be noted, imbeds the deep tension in Wallace's thought between his acceptance of current civilization, and do not of themselves advance us towards the 'perfect social state'" account of utopian socialist possibilities—"We should now clearly recognise the progress must bring us nearer" [455]). Wallace's final vision here, feeding into an there must be some state of perfection, some ultimate goal ... to which all true us believe that we, the higher races, have progressed and are progressing. If so, strongly progressivist vision for the races that survive this struggle ("We most of true Polynesians ... are no doubt doomed to an early extinction" [455]) and a past history of these varied races is obscure and uncertain, the future is less so. The ending, including there both a firm endorsement of extinctionist discourse ("If the When reprinting the essay in Malay Archipelago (1869b), Wallace added to the the ground. (457)—follows closely from the arguments with which he closed his 1864 paper fact, that the wealth and knowledge and culture of the few do not constitute

In later reiterations of this paper, Wallace dropped the socialist vision of the future (while retaining the racial amalgamation) and closed on a different note, beginning with darker assessments but still closing in hopeful terms. Of uncivilized peoples, Wallace declared: "We are just now living at an abnormal period of the world's history, owing to the marvelous developments and vast practical results of science, having been given to societies too low morally and intellectually, to know how to make the best use of them, and to whom they have consequently been curses as well as blessings." Meanwhile: "Among civilized nations at the present day, it does not seem possible for natural selection to act in any way, so as to secure the permanent advancement of morality and intelligence; for it is indisputably the mediocre, if not the low, both as regards morality and intelligence, who succeed best in life and multiply fastest." Despite this, Wallace asserts: "Yet there is undoubtedly an advance—on the whole a steady and permanent one—both

in ... high morality, and in the general desire for intellectual elevation; and as I cannot impute this in any way to 'survival of the fittest,' I am forced to conclude that it is due, to the inherent progressive power of those glorious qualities which raise us so immeasurably above our fellow animals" (Wallace 1870, 330; Wallace 1871c, 27-28). Wallace's revision here positions the essay as a lead in to his argument, in "The Limits of Natural Selection as Applied to Man," for the guidance of development by higher powers.

guidance of development by higher powers.

Modifying this essay as well, Wallace added a closing "Summary of the Argument as to the Insufficiency of Natural Selection to Account for the Development of Man" in which he adds: "we must therefore admit the possibility that, if we are not the highest intelligences in the universe, some higher intelligence may have directed the process by which the human race was developed, by means of more subtle agencies than we are acquainted with." He then concedes: "At the same time I must confess, that this theory has the advantage of requiring the intervention of some distinct individual intelligence, to aid in the production of what we can hardly avoid considering as the ultimate aim and outcome of all organized existence—intellectual, ever-advancing, spiritual man" (Wallace 1871c, 53).

²⁵ See in particular the volume's treatment of the Galapagos, 265-80, and note that Darwin's work is cited eleven times through the course of the volume (518). This is the book Darwin praised as "the best book which you have ever published," adding that he "made a few notes, chiefly when I differed strongly from you" ("seven foolscap pages of notes, many giving facts from his extensive reading which I had not seen," Wallace himself noted), but that "I have said nothing on the infinitely many passages and views which I admired and which were new to me" (Marchant 1916, 252 and n. 2).

Left out of the exchange is the interesting fact that E. B. Tylor carried out his own investigation of Spiritualism; Stocking discusses Tylor's work on the subject and his debate with Wallace, as well as reprinting Tylor's unpublished notes on the subject (1971).

ARMAGEDDON AT SEBASTOPOL: THE CRIMEAN WAR AND BIBLICAL PROPHECY IN MID-VICTORIAN BRITAIN

ERIC M. REISENAUER

feelings held by the British are given their proper emphasis (xxi-xxiii). deep religious sensibilities of those involved and the staunch anti-Russian missteps of the conflict. In his The Crimean War: A History, however, Much, though by no means all, of the historical writing on the war in staunch Russophobia which lay at the base of Britain's involvement in it. expand our appreciation of two aspects of the war which have until nature and the extent of this interpretation of the war. By doing so, it will English has stressed the diplomatic, political and military causes and recently not been given their due: its deeply religious nature and the the purpose of this essay to elaborate upon this idea, and to explain the important of all time, possessing cosmic, indeed divine, implications. It is just the most important war of their lifetimes but perhaps the most more monumental than Figes indicates. This war was, for these people, not and is largely forgotten by the public was for many Victorian Britons even matter of perception and perspective. A war that today seems rather minor important war of their lifetimes" (xix). Importance, of course, is always a charge into the Valley of Death, not for a moment reasoning why. Yet for officer corps whose missteps resulted in the Light Brigade's suicidal among wounded soldiers, lamp in hand, or of an incompetent and bungling Figes (2010) argues that the war cannot be rightly understood unless the Crimean War was "the major conflict of the nineteenth century, the most the Victorians, as Orlando Figes (2010) has recently reminded us, the quaintness often captured in images of Florence Nightingale, moving European wars have imparted to the British experience in the Crimea a difficult to appreciate today. The intense horrors of twentieth-century The Crimean War (1853-1856) impacted Victorian Britain in ways

This essay owes a considerable debt to Figes' interpretation of the origins and guiding principles of the war, yet it will examine a link which he does not explore between the two factors mentioned above. It will present