

# SIMON HEDGES – CURRICULUM VITAE

## Overview of experience and education/qualifications

I have almost 30 years of experience of wildlife conservation-related research and survey work, endangered species and protected area management, and wildlife policy formulation, including the writing and implementation of wildlife action plans. The majority of my time since 1988 has been spent in Asia and Africa. Since 1998, I have focused on elephants, particularly on the development of reliable monitoring methods, human–elephant conflict assessment and mitigation work, and, since 2004, the ivory trade and the resulting illegal killing of elephants. I began working for WCS in January 2000: co-managing the Sumatran Elephant Project for the WCS Indonesia Program for three years until I was hired by WCS's Asia Program in 2003 as the Asian Elephant Coordinator. In 2012, I also formally took up the role of Ivory Trade Policy Analyst for WCS, having lead on ivory trade issues for a number of years. From May 2015 I was WCS's Elephant Coordinator, covering Asia and Africa. I resigned from WCS in 2017, when I also co-founded Asian Arks (and I will be the CEO of that new NGO, which is currently being established). I chaired the IUCN/SSC Asian Wild Cattle Specialist Group from 1995 to 2005 and was the Co-Chair of the Asian Elephant Specialist Group from 2005 to 2015; I am a member of the Canid Specialist Group. I was a member of the IUCN/SSC Species Conservation Planning Task Force, am a member of the Human-Wildlife Conflict Task Force, and I currently Chair the Red List Technical Working Group. I was also a member of the joint Technical Advisory Group (TAG) of the CITES Monitoring the Illegal Killing of Elephants (MIKE) program and the Elephant Trade Information System (ETIS) for many years. I have published in journals ranging from *Molecular Ecology*, *Conservation Biology*, and *Journal of Animal Ecology to Tropical Biodiversity*, *Kukila*, and *Gajah*. I have also contributed chapters to several peer-reviewed books and edited (and contributed to) the 2012 book, "Monitoring elephants and assessing threats: a manual for researchers, managers and conservationists". My PhD is on Conservation Biology and Wildlife Management (Dissertation - 'Towards an Evidence-Based Approach to the Conservation of Asian Mammals: Biology and Management of Asian Elephants, Dholes, Wild Cattle, and Buffaloes'). I hold a BSc(Hons) in Environmental Science (I specialized in animal ecology and behavior, applied ecology, and resource management).

## Application related details

1. **Family name:** Hedges
2. **First names:** Simon
3. **Date of birth:** December 1<sup>st</sup>, 1964
4. **Passport holder:** UK Passport (British Citizen)
5. **Residence:** UK
  
6. **Membership of professional bodies:**
  - Co-chair of the IUCN/SSC Asian Elephant Specialist Group (July 2005–2015); still a member.
  - Member of the Technical Advisory Group (TAG) of the CITES Monitoring the Illegal Killing of Elephants (MIKE) Program and Elephant Trade Information System (ETIS; December 2008 to 2016)
  - Member of the former CITES MIKE Dung Survey Task Force (2003–2006).
  - Advisor to Elephant Care International (Feb 2005 to present).
  - Member of the IUCN/SSC Species Conservation Planning Task Force (2006–2008)
  - Member of the IUCN/SSC Red List Technical Working Group (2009 to present); Chair since 2016.
  - Dhole (*Cuon alpinus*) Working Party Coordinator of the IUCN/SSC Canid Specialist Group (from July 1998 to October 2005); member of Canid Specialist Group (from July 1998 to present).
  - Chair of the IUCN/SSC Asian Wild Cattle Specialist Group (from Sept 1995 to July 2005, and Acting Chair of the Group from July 1994 to Sept 1995); Large Bovini Coordinator (from July 2005 to present).
  - Advisor to the AZA Bison, Buffalo, and Cattle Taxon Advisory Group (1993 to 2003).
  
7. **Other skills:**
  - I have excellent communication/presentation skills, a history of successful project management (including almost 17 years – January 2000 to the present – delivering WCS's Asian elephant conservation programs), and extensive experience of synthesizing problems and delivering recommendations (evidenced through a history of developing species and area conservation plans).
  - I am very experienced with presenting to highly varied audiences, ranging from poor farmers in rural Indochina to Ministers at international meetings/fora including IUCN-led planning meetings and at CITES.
  - I have good computing skills and I am very experienced with a variety of presentation (especially PowerPoint), word processing, data analysis, and GIS software packages.
  - I have an extensive network of contacts throughout the NGOs and governments of Asia having spent much of the last 30 years living and working in Asia; I have a growing network of such contacts throughout Africa, too, having increasingly worked in Africa since 2007.
  - I have experience of a wide range of ecological survey methods and I have applied these techniques during fieldwork on elephants, rhinos, wild cattle, deer, wild pigs, gibbons, monkeys, large cats, wild dogs, small carnivores, rodents, and birds.

8. **Present position:** Elephant Coordinator & Ivory Trade Policy Analyst, Wildlife Conservation Society (WCS). PLEASE NOTE THAT I HAVE RESIGNED FROM WCS AND AM WORKING OUT MY NOTICE PERIOD

9. **Years within the firm:** Almost 17 years (from January 2000).

10. **Key qualifications:**

- Extensive **knowledge of elephant and other large mammal biology and conservation/monitoring needs, including law enforcement and law enforcement monitoring needs** (especially site-based measures and including MIST and SMART) through work with WCS, WWF, and MIKE. Recent key products include:
  - Hedges, S. ed., 2012. *Monitoring Asian and African Elephants and Assessing Threats: A Manual for Researchers, Managers and Conservationists*. Universities Press (India) Private Limited, Himayatnagar, India.
  - Hedges, S., D., Lawson. 2006. *Dung Survey Standards for the MIKE Programme*. CITES MIKE Programme, Central Coordinating Unit, PO Box 68200, Nairobi, Kenya.
- Thorough **knowledge of compiling status assessments for elephants and other large mammal species**. Key products/roles include:
  - Part of the team behind the IUCN Elephant Database
  - Member and now Chair of the IUCN/SSC Red List Technical Working Group.
  - Duckworth J.W. & Hedges S. (1998) *Tracking Tigers: A review of the Status of Tiger, Asian Elephant, Gaur, and Banteng in Vietnam, Lao, Cambodia, and Yunnan (China), with Recommendations for Future Conservation Action*. WWF Indochina Programme, Hanoi, Vietnam.
- Thorough **knowledge of ivory trade issues through work with WCS, MIKE, ETIS, and CITES**. Recent key products / roles include:
  - UNEP, CITES, IUCN, TRAFFIC (2013) *Elephants in the Dust – The African Elephant Crisis. A Rapid Response Assessment*. United Nations Environment Programme, GRID-Arendal, Norway. [I contributed to this report.]
  - CITES (2012) *Status of Elephant Populations, Levels of Illegal Killing and the Trade in Ivory*. Report from ETIS, IUCN, MIKE, & WCMC to the 62nd Meeting of the Standing Committee to CITES, 23–27 July 2012. [I co-authored this report and a similar one in 2011 with Julian Blanc, Tom Milliken, and Diane Skinner.]
  - Ivory Trade Policy Analyst for WCS; Advisor to WCS’s social media based ivory demand reduction project in China; Member of MIKE/ETIS TAG.
- **Significant experience of both the theory and practice of developing and implementing species conservation strategies for elephants and other species**. Recent key products include:
  - *National Elephant Conservation Strategy for Peninsular Malaysia: 2014–2023*. I was the lead writer for this strategy, working for the Government of Malaysia through WCS.
  - Redford *et al.* 2011. What Does It Mean to Successfully Conserve a Species? *BioScience* 61: 39–48.
  - IUCN/SSC-AWCSG. 2010. *Regional Conservation Strategy for Wild Cattle and Buffaloes in South-east Asia*. IUCN/SSC Asian Wild Cattle Specialist Group, Gland Switzerland.
  - IUCN/Species Survival Commission. 2008. *Strategic Planning for Species Conservation: A Handbook*. Version 1.0. Gland, Switzerland: IUCN Species Survival Commission. 104pp. [I was a lead writer and editor of this peer-reviewed book.]
  - Author or contributor to IUCN/SSC and other actions plans/strategies for wild canids, wild bovids, large cats, and elephants (1994 to present).
- **Extensive knowledge of the theory and practice of protected area management:**
  - Have worked as a park ecologist in Indonesia (1991 to 1999) and participated in a review of conservation priorities for Indonesian and Philippine protected areas in 1999.
  - Provided information to support the designation of new protected areas in Indonesia, Cambodia, Myanmar, and the Lao PDR.
  - Lead author for Walston J., Stokes E. & Hedges S. 2016. The Importance of Asia’s Protected Areas for Safeguarding Commercially High Value Species. In: *Protected Areas: Are They Safeguarding Biodiversity?* (eds. by Joppa LN, Baillie JEM & Robinson JG), pp. 190-207. J. Wiley & Sons Ltd., London, UK.

11. **Specific experience in Asia:**

Country	Date from - Date to
<b>Asia</b>	
Cross-Asia experience for elephant, bovid, cervid, and rhino conservation work, and wildlife trade work: China, Cambodia, India, Indonesia, Lao PDR, Malaysia, Myanmar, Thailand, Vietnam	1997 to present
Lived in Indonesia for elephant and other large mammal conservation/research work	August 1988 – July 1989 (Univ expedition) Sept 1991 to Dec 2002

## 12. Professional experience

Date from - date to	Location	Company	Position	Description
Since 01-2000	Asia-wide + Kenya	Wildlife Conservation Society (WCS);	Elephant Coordinator & (from 2008) also Ivory Trade Policy Analyst	<p>This job has four main foci: Coordination and planning; 'Species Champion' and fund-raising; Technical support to WCS's country program elephant projects; Lead on WCS's ivory trade policy. Specific projects/roles include:</p> <ul style="list-style-type: none"> <li>I am responsible for the development of ivory and rhino horn trade strategies including advising on WCS's social media-based ivory demand reduction project in China and working with WCS's wildlife trade program in Vietnam on rhino horn and ivory trade projects. Recent publications (through my work with IUCN and the MIKE/ETIS TAG) include: "UNEP, CITES, IUCN, TRAFFIC (2013) <i>Elephants in the Dust – The African Elephant Crisis. A Rapid Response Assessment</i>. United Nations Environment Programme, GRID-Arendal, Norway" [I contributed to this report] and "CITES (2012) <i>Status of Elephant Populations, Levels of Illegal Killing and the Trade in Ivory</i>. Report from ETIS, IUCN, MIKE, &amp; WCMC to the 62nd Meeting of the Standing Committee to CITES, 23–27 July 2012". [I co-authored this report and a similar one in 2011 with Julian Blanc, Tom Milliken, and Diane Skinner.]</li> <li>My role includes drafting communication documents including ivory trade and bushmeat policy positions, commenting on CITES ivory and rhino horn proposals, working documents, etc. Preparing press releases, op-eds, and popular articles. Preparing technical articles. This work involves very frequent use of PowerPoint and other presentation tools when communicating with a variety of audiences ranging from senior government officials (African, Asian, US, UK and other EU States) to NGO partners to local stakeholders.</li> <li>A very significant part of my time is also spent on strategic planning for species conservation. This has included: (1) working with elephant range State governments to produce elephant action plans. For example, the <i>National Elephant Conservation Strategy for Peninsular Malaysia: 2014–2023</i>, for which I was the lead writer, working for the Government of Malaysia through WCS; (2) working with IUCN to formulate its guidelines on how to plan for species conservation "IUCN/Species Survival Commission. 2008. <i>Strategic Planning for Species Conservation: A Handbook</i>. Version 1.0. Gland, Switzerland: IUCN Species Survival Commission. 104pp" [I was a lead writer and editor of this peer-reviewed book.].</li> <li>My job involves frequent communications / liaison with a variety of environmental NGOs across Asia and increasingly Africa because WCS is involved in a number of partnerships with other NGOs focused on elephant conservation policy and ivory trade policy (including under the Clinton Global Initiative) as well as more regional wildlife survey and protected area management initiatives. In addition, as the Chair of the IUCN/SSC Asian Wild Cattle Specialist Group from 1995 to 2005 and Co-chair of the IUCN/SSC Asian Elephant Specialist Group from 2005 to the present, I have built-up and</li> </ul>

				<p>maintained a very extensive network of contacts in the international NGO community and in the governments of Asia.</p> <ul style="list-style-type: none"> <li>• I also spent much of the 14 years that I have worked for WCS as the lead technical advisor on elephant and other wildlife survey/monitoring projects across Asia, including pioneering the use of fecal DNA based methods for Asian elephants and helping with the promulgation of SMART and other law enforcement monitoring methods. I was the lead writer and editor of “Hedges, S. ed., 2012. <i>Monitoring Asian and African Elephants and Assessing Threats: A Manual for Researchers, Managers and Conservationists</i>. Universities Press (India) Private Limited, Himayatnagar, India”.</li> <li>• I advise on protected area management projects including (1) helping with proposals for new protected areas in Indonesia, Cambodia, Myanmar, and the Lao PDR and (2) advising on habitat management for wildlife within protected areas.</li> <li>• My job has also included a very significant role advising on human–wildlife conflict (HWC) assessment and mitigation initiatives. I have published extensively on HWC mitigation including the role of evidence-based approaches in promoting successful mitigation of HWC at protected-area-wide scales. I have spent a lot of time presenting and communicating the results of such work to a range of stakeholders, from local farmers in Asia to government policy makers to the donor/academic communities.</li> </ul>
10-1999 to 12-1999	Indonesia (East Kalimantan)	WWF	Consultant ‘Wild Cattle Specialist’	<p>Conducted on-the-job training of counterparts and banteng (<i>Bos javanicus</i>) surveys in East Kalimantan, Indonesia.</p> <ul style="list-style-type: none"> <li>• Wildlife surveys, protected area management, and biodiversity conservation, with an emphasis on poaching and trade in wildlife/wildlife parts.</li> <li>• Promotion of discussion among wildlife NGOs concerning the future of Borneo’s banteng and management options for that species.</li> </ul>
09-1991 to 12-1999	Indonesia (Java)	Forestry & Nature Conservation Project (FONC), Dutch Government aid program to Indonesia.	Park ecologist and Head of Field Station	<p>Based in Baluran and Alas Purwo NPs, East Java, under the auspices of the FONC Project: Wageningen University, the Netherlands &amp; Gadjah Mada University, Indonesia. The project focussed on:</p> <ul style="list-style-type: none"> <li>• Wildlife surveys, research on wildlife ecology and behaviour.</li> <li>• Biodiversity conservation including management of habitat and water resources for endangered species; a particular focus was on the problems of invasive plants (e.g. <i>Acacia nilotica</i>) for large herbivores.</li> <li>• Protected area management including helping develop anti-poaching/bushmeat patrolling (law enforcement) strategies</li> </ul>
09-1998 to 11-1998 (NB within the 1991 to 1999 period listed above)	Indonesia (East Kalimantan)	WCS	Consultant ‘Mammal Expert’	<p>Conducted mammal and hornbill surveys in the Bulungan Reduced Impact Logging study in East Kalimantan (Indonesian Borneo). This project focussed on:</p> <ul style="list-style-type: none"> <li>• Wildlife surveys, protected area management, and biodiversity conservation.</li> <li>• Results were communicated in a number of fora (including use of PowerPoint presentations) and contributed to formulation of a wildlife-friendly forestry policies.</li> </ul>

01-1997 (NB within the 1991 to 1999 period listed above)	Cambodia	WWF/IUCN	Consultant 'Large Mammal Specialist'	WWF/IUCN Large Mammal Surveys and Associated On-the-job Training of Counterparts in Eastern Cambodia project. (This project, which was to have lasted six months, had to be abandoned after one month because of security problems in eastern Cambodia.) The project focused on: <ul style="list-style-type: none"> <li>• Wildlife surveys, protected area management, and biodiversity conservation, with an emphasis on poaching.</li> <li>• Promotion of discussion among wildlife NGOs concerning the future of kouprey (<i>Bos sauveli</i>) and management options for that species.</li> </ul>
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### 13. Other relevant information (e.g., Publications)

#### Selected publications:

- Samsudin, A.R., Yasak, M.H., Gumal, M., Saaban, S., Oziar, A., Cheong, F., Shaari, Z., Tyson, M., **Hedges, S.**, in review. Viability and management of the Asian elephant population in the Endau Rompin landscape, Malaysia. *PLoS ONE*.
- Gunaryadi D., Sugiyo & **Hedges S.** 2017. Community-based human–elephant conflict mitigation: The value of an evidence-based approach in promoting the uptake of effective methods. *PLoS ONE* 12, e0173742.
- Calabrese A., Calabrese J.M., Songer M., Wegmann M., **Hedges S.**, Rose R. & Leimgruber P. 2017. Conservation status of Asian elephants: the influence of habitat and governance. *Biodiversity and Conservation* 26, 2067-81.
- Ripple W.J., Chapron G., López-Bao J.V., Durant S.M., Macdonald D.W., Lindsey P.A., Bennett E.L., Beschta R.L., Bruskotter J.T., Campos-Arceiz A., Corlett R.T., Darimont C.T., Dickman A.J., Dirzo R., Dublin H.T., Estes J.A., Everatt K.T., Galetti M., Goswami V.R., Hayward M.W., **Hedges S.**, Hoffmann M., Hunter L.T.B., Kerley G.I.H., Letnic M., Levi T., Maisels F., Morrison J.C., Nelson M.P., Newsome T.M., Painter L., Pringle R.M., Sandom C.J., Terborgh J., Treves A., Van Valkenburgh B., Vucetich J.A., Wirsing A.J., Wallach A.D., Wolf C., Woodroffe R., Young H. & Zhang L. 2017. Conserving the World's Megafauna and Biodiversity: The Fierce Urgency of Now. *Bioscience* 67 197-200.
- Walston J., Stokes E. & **Hedges S.** 2016. The Importance of Asia's Protected Areas for Safeguarding Commercially High Value Species. In: Protected Areas: Are They Safeguarding Biodiversity? (eds. by Joppa LN, Baillie JEM & Robinson JG), pp. 190-207. J. Wiley & Sons Ltd., London, UK.
- UNEP, CITES, IUCN, TRAFFIC. 2013. *Elephants in the Dust – The African Elephant Crisis. A Rapid Response Assessment*. United Nations Environment Programme, GRID-Arendal, Norway. [I contributed to this report.]
- **Hedges, S.**, Johnson, A., Ahlering, M., Tyson, M., Eggert, L.S., 2013. Accuracy, precision, and cost-effectiveness of conventional dung density and fecal DNA based survey methods to estimate Asian elephant (*Elephas maximus*) population size and structure. *Biological Conservation* 159, 101-108.
- **Hedges, S.** ed., 2012. *Monitoring African and Asian Elephants and Assessing Threats: A Manual for Researchers, Managers and Conservationists*. Universities Press (India) Private Limited, Himayatnagar, India.
- CITES (2012) *Status of Elephant Populations, Levels of Illegal Killing and the Trade in Ivory*. Report from ETIS, IUCN, MIKE, & WCMC to the 62nd Meeting of the Standing Committee to CITES, 23–27 July 2012. [I co-authored this report with Julian Blanc, Tom Milliken, and Diane Skinner.]
- Duckworth, J.W., Batters, G., Belant, J.L., Bennett, E.L., Brunner, J., Burton, J., Challender, D.W.S., Cowling, V., Duplaix, N., Harris, J.D., **Hedges, S.**, Long, B., Mahood, S.P., McGowan, P.J.K., McShea, W.J., Oliver, W.L.R., Perkin, S., Rawson, B.M., Shepherd, C.R., Stuart, S.N., Talukdar, B.K., van Dijk, P.P., Vié, J.-C., Walston, J.L., Whitten, T., Wirth, R., 2012. Why South-east Asia should be the world's priority for averting imminent species extinctions, and a call to join a developing cross-institutional programme to tackle this urgent issue. *S.A.P.I.E.N.S.* 5, 77-95.
- Ahlering M., **Hedges S.**, Johnson A., Tyson M., Schuttler S. & Eggert L. 2011. Genetic diversity, social structure, and conservation value of the elephants of the Nakai Plateau, Lao PDR, based on non-invasive sampling. *Conservation Genetics* 12, 413-422.
- Redford, K., Amato, G., Baillie, J., Beldomenico, P., Bennett, E.L., Clum, C., Cook, R., Fonseca, G., **Hedges, S.**, Launay, F., Lieberman, S., Mace, G.M., Murayama, A., Putnam, A., Robinson, J.G., Rosenbaum, H., Sanderson, E.W., Stuart, S.N., Thomas P., Thorbjarnarson, J. 2011. What Does It Mean to Successfully Conserve a Species? *BioScience* 61: 39–48.
- McWilliam, A., **Hedges, S.**, Johnson, A., Luangyotha, P., 2010. *A Manual for Human–Elephant Conflict Monitoring*. WCS Lao Program, Vientiane, Lao PDR.

- Blake, S., **Hedges, S.** 2010. *What Future for Forest Elephants?* Pages 114–121 in: *State of the Wild 2010: A Global Portrait of Wildlife, Wildlands, and Oceans*. Island Press, Washington D.C., USA.
- **Hedges, S.** & Gunaryadi, D. 2010. Reducing human–elephant conflict: do chillies help deter elephants from entering crop fields? *Oryx*, 44, 139–146.
- Woodroffe, R., Donnelly, C. A., Weid, G., Cox, D. R., Bourne, J., Burke, T., Butlin, R. K., Cheeseman, C. L., Gettinby, G., Peter Gilks, P., **Hedges, S.**, Jenkins, H. E., Johnston, W. T. McInerney, J. P., Morrison, W. I., Pope, L. C. 2009. Social group size affects *Mycobacterium bovis* infection in European badgers (*Meles meles*). *Journal of Animal Ecology* 78: 818–827.
- IUCN/Species Survival Commission. 2008. *Strategic Planning for Species Conservation: A Handbook*. Version 1.0. Gland, Switzerland: IUCN Species Survival Commission. 104pp. [I was a lead writer and editor of this peer-reviewed book.]
- Schipper, J., *et al.* 2008. The Status of the World's Land and Marine Mammals: Diversity, Threat, and Knowledge. *Science* 322 (no. 5899): 225–230. [I was one of the many authors of this paper.]
- Sitompul, A.F., Carroll, J.P., Peterson, J., & **Hedges, S.** 2008. Modelling impacts of poaching on the Sumatran elephant population in Way Kambas National Park, Sumatra, Indonesia. *Gajah (Journal of the IUCN/SSC Asian Elephant Specialist Group)* 28: 31–40.
- **Hedges, S.** 2007. Are elephants cracking-up? *Gajah (Journal of the IUCN/SSC Asian Elephant Specialist Group)* 26: 43–46.
- **Hedges, S.**, C.P. Groves, J.W. Duckworth, E. Meijaard, R.J. Timmins, & J.A. Burton. 2007. Was the kouprey (*Bos sauveli*) a feral hybrid? A response to Galbreath *et al.* (2006). *Journal of Zoology* 271: 242–245.
- **Hedges, S.** 2006. *Conservation*. Chapter 36 in Fowler, M.E. & S.K. Mikota [Eds] *Biology, Medicine and Surgery of Elephants*. Blackwell Publishing.
- **Hedges, S.**, M.J. Tyson, A.F. Sitompul, H. Hammatt. 2006. Why inter-country loans will not help Sumatra's elephants. *Zoo Biology* 25: 235–246.
- **Hedges, S.**, D., Lawson. 2006. *Dung Survey Standards for the MIKE Programme*. CITES MIKE Programme, Central Coordinating Unit, PO Box 68200, Nairobi, Kenya.
- Iyengar, A., V.N. Babu, **S. Hedges**, A.B. Venkataraman, N. Maclean, P.A. Morin. 2005. Phylogeography, genetic structure and diversity in the dhole (*Cuon alpinus*). *Molecular Ecology* 14: 2281–2297.
- **Hedges, S.**, M.J. Tyson, A.F. Sitompul, M.F. Kinnaird, D. Gunaryadi, Aslan. 2005. Distribution, status, and conservation needs of Asian elephants (*Elephas maximus*) in Lampung Province, Sumatra, Indonesia. *Biological Conservation* 124: 35–48.
- Burton, J., **S. Hedges**, A.H. Mustari. 2005. The anoas (*Bubalus depressicornis* & *B. quarlesi*): taxonomic status, distribution, and conservation needs. *Mammal Review* 35: 25–50.
- Blake, S., **S. Hedges**. 2004. Sinking the Flagship: the Case of Forest Elephants in Asia and Africa. *Conservation Biology* 18: 1191–1202.
- Duckworth, J.W., **S. Hedges**. 1998. *Tracking Tigers: A review of the Status of Tiger, Asian Elephant, Gaur, and Banteng in Vietnam, Lao, Cambodia, and Yunnan (China), with Recommendations for Future Conservation Action*. WWF Indochina Programme, Hanoi, Vietnam.
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- **Hedges, S.** 1997. *Domesticated Mammals*. In: Whitten, A. & J. Whitten [Eds]. *Indonesian Heritage Encyclopaedia Series - Wildlife of Indonesia*. Editions Didier Millet Pte Ltd., Singapore.
- Manansang, J., **S. Hedges**, S. Dwiatmo, P. Miller, and U.S. Seal [Eds] (1996). *Population and Habitat Viability Assessment Workshop for the Anoa Species (Bubalus depressicornis and Bubalus quarlesi) Report*. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, MN., USA.
- de Leon, J., N. Lawas, R. Escalada, P. Ong, R. Callo, **S. Hedges**, J. Ballou, D. Armstrong, & U.S. Seal [Eds] (1996). *Tamaraw (Bubalus mindorensis) Population and Habitat Viability Assessment Report*. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, MN., USA.
- **Hedges, S.** 1996. *Proposal for transfer of wild Asian buffalo (Bubalus bubalis) from CITES Appendix III to CITES Appendix I*. Proposal prepared for the IUCN/SSC Asian Wild Cattle Specialist Group and the IUCN/SSC Wildlife Trade Programme. 25pp.
- **Hedges, S.** 1996. *Proposal for inclusion of banteng (Bos javanicus) in CITES Appendix I*. Proposal prepared for the IUCN/SSC Asian Wild Cattle Specialist Group and the IUCN/SSC Wildlife Trade Programme. 34pp.
- Mochamad Indrawan, **S. Hedges**, Tatang, M.J. Tyson, Wawan, Pramudji, Siswanto, & Komaruddin 1996. Observations on ajag (*Cuon alpinus*) hunting in Baluran and Alas Purwo, East Java. *Tropical Biodiversity* 3(2): 127-129.
- Byers, O., **S. Hedges**, & U.S. Seal 1995. *Asian Wild Cattle Conservation Assessment and Management Plan Working Document*. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, MN., USA.