

## The Arcus Foundation

The Arcus Foundation is a private grant-making foundation that advances social justice and conservation goals. The Foundation works globally and has offices in New York City, USA and Cambridge, UK. For more information visit:

- [arcusfoundation.org](http://arcusfoundation.org).

Or connect with Arcus at:

- [twitter.com/ArcusGreatApes](https://twitter.com/ArcusGreatApes); and
- [facebook.com/ArcusGreatApes](https://facebook.com/ArcusGreatApes).

### Great Apes and Gibbons Program

The long-term survival of humans, great apes and gibbons is dependent on how we respect and care for other animals and our shared natural resources. The Arcus Foundation seeks to increase respect for and recognition of the rights and value of great apes and gibbons, and to strengthen protection from threats to their habitats. The Arcus Great Apes and Gibbons Program supports conservation and policy advocacy efforts that promote their survival in the wild and in sanctuaries that offer high-quality care, safety and freedom from invasive research and exploitation.

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## Notes to Readers

### Acronyms and abbreviations

A list of acronyms and abbreviations can be found at the back of the book, starting on p. 282.

### Annexes

All annexes can be found at the back of the book, starting on p. 263, except for the Abundance Annex, which is available from the *State of the Apes* website:

- [www.stateoftheapes.com](http://www.stateoftheapes.com).

### Glossary

There is a glossary of scientific terms and keywords at the back of the book, starting on p. 285.

### Chapter cross-referencing

Chapter cross-references appear throughout the book, either as direct references in the body text or in brackets.

### Ape Abundance Estimates

Definitive, up-to-date abundance estimates are not available for all ape species. The most recent Abundance Annex, which can be accessed at [stateoftheapes.com](http://stateoftheapes.com), presents estimates at the site level and uses abundance classes to indicate population ranges. In this volume, the Apes Overview and some chapters feature abundance information based on other geographic scales, drawn from a variety of sources, including forthcoming Red List assessments. Consequently, some figures may not align exactly.

### Ape Range Maps

The ape range maps throughout this edition show the extent of occurrence (EOO) of each species. An EOO includes all known populations of a species contained within the

shortest possible continuous imaginary boundary. It is important to note that some areas within these boundaries are unsuitable and unoccupied.

The Arcus Foundation commissioned the ape distribution maps in the Apes Overview, Figures AO1 and AO2, to provide the most accurate and up-to-date illustration of range data. These maps were created by the Max Planck Institute for Evolutionary Anthropology, who manage the A.P.E.S. portal and database. This volume also features maps created by contributors who used ape range data from other sources. As a consequence, the maps may not all align exactly.

## Acknowledgments

As with all volumes in the *State of the Apes* series, pulling together the content for this publication has been an extensive undertaking. Our aim is not only to encourage the critical engagement of all stakeholders, including conservation organizations, civil society, industry, donor and financial institutions, and governments, but also to increase support for great apes and gibbons. We would like to express our gratitude to everyone who played a role, from those who attended our stakeholder meeting, to our contributors and reviewers, to all those involved in the production and translation of the book. Thank you for your input, knowledge, advice, expertise, support, flexibility and patience!

Jon Stryker and the Arcus Foundation Board of Directors have been instrumental in enabling us to produce this publication series. We thank them for their ongoing support of our efforts to bring an overview of critical ape conservation issues to important audiences. We also thank Katrina Halliday and the team at Cambridge University Press for their commitment to this series.

In addition to the thematic content, each publication provides an overview of the status of apes, both in their natural habitats and in captivity. We are very grateful to the captive-ape organizations that provided detailed information and to all the great ape and gibbon scientists who contribute their valuable data to build the A.P.E.S. database. Such collaborative efforts are key to effective conservation action.

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Credits appear alongside all photographs in this volume, many of which were generously contributed by the photographers. We are also thankful to the organizations that allowed us to include extracts from previously published books, journals, reports and internal documents.

To ensure that the *State of the Apes* series is accessible to as many stakeholders, decision- and policy-makers as possible, it is published under an open access agreement with Cambridge University Press and translated into multiple languages. This volume will be available in Bahasa Indonesia, Chinese (Mandarin) and French thanks to our translators, graphic designers and proof-readers: Alboum Associates, Nelly Aubaud Davies, Exile: Design & Editorial Services, Xuezhu Huff, MAPgrafix, Anton Nurcahyo, Owlingua, H el ene Piantone, Erica Taube, Beth Varley and Rumanti Wasturini. The *State of the Apes* editions are available in all languages on the dedicated website (state

oftheapes.com); our thanks go to the Arcus Communications team for managing this site, especially Angela Cave, Sebastian Naidoo and Bryan Simmons.

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**Helga Rainer, Alison White  
and Annette Lanjouw**  
Editors