Product: Modeled distribution maps of species endemic to the east slope of the Andes in Peru and Bolivia

SME: Bruce Young

**Page Objective:   
Present the tool, data set, training etc. in a comprehensive way. Start with basic overview information and slowly build to more detailed information later in the page. This serves as the primary place to gather information about and access a specific NatureServe tool or product.**

**Phase:   
All required content elements must be provided for site launch. Other elements may be added later.**

**Governance Comments:   
All content should be reviewed in full every year and when product upgrades are released.**

**Assets:   
List files, imagery or related links that need to appear on this page. File references may also be noted in copy blocks.**

1. **NS230.33a—Downloads page listing 30+ zip files in multiple formats**
2. **\_**
3. **\_**

| **Basic Data** |  |
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| **Title (Required)**  **Description: Name of the product as it will appear on the site. (*NatureServe Vista 3.0*)**  **Format:**   * **plain text** * **Title case** * **255 character limit** | **Title**  **Modeled distribution maps of species endemic to the east slope of the Andes in Peru and Bolivia** |
| **Subtitle**  **(Not Required)**  **Description: Subtitle for product – if one exists. (*Decision Support for Better Planning*)**  **Format:**   * **plain text** * **Title case** * **255 character limit** | **Subtitle**  **n/a** |
| **Overview**  **(Required)**  **Description: High-level description of the tool and who it is intended for in language accessible to all users.**  **Format:**   * **rich text** * **100 words or less (guideline)** | **Overview**  **These distribution maps model the expected ranges of 782 species of birds, mammals, amphibians, and plants endemic to the Andes-Amazon regions of Peru and Bolivia.** The results identify areas of high conservation value as well as previously undetected centers of endemism. |
| **Value Proposition**  **(Required)**  **Description: Brief explanation of why one might want to use this tool in language for all audiences.**  **Format:**   * **rich text** * **100 words or less (guideline)** | **Value Proposition**  **Working with more than 50 collaborating and partnering institutions, NatureServe network scientists created these distribution models to serve as conservation baseline maps that inform effective planning and conservation action at regional and local scales.**  **The results identified areas of high conservation value as well as previously undetected centers of endemism.** |
| **Features & Benefits**  **(Required)**  **Description: Detailed list of various features and benefits. Intended for audience using the product (may go into more scientific or product detail).**  **Format:**   * **rich text** * **may include bulleted lists** * **400 words or less (guideline)** | **Features & Benefits**  **Conserving species first requires knowing where they live. But despite hundreds of years of field inventories, our understanding of the distribution of most species remains incomplete, especially in remote regions.**  **Studies prior to this one—funded by the Gordon and Betty Moore Foundation—focused attention on the distribution of a single group of species, hoping that it could serve as a proxy for all biodiversity. By producing distribution maps, NatureServe and its partners could accommodate the fact that different groups of species have different distributions and thus require distinctive conservation priorities. Areas of endemism for amphibians, for example, usually occur far from and at lower elevations than areas of endemism for birds or mammals.**  **NatureServe produced a set of predictive distribution maps for 782 endemic species**   * **435 plants** * **177 amphibians** * **115 birds** * **55 mammals**  **Plants** **Four plant groups (Anacardiaceae, Chrysobalanaceae, Inga, and Malpighiaceae) showed endemism in the lowlands. The Acanthaceae showed peaks of endemism at mid elevations, and nine plant groups had endemism peaks at high elevations above 2,000 meters.** **Amphibians** **Amphibians showed a major diversity peak in central Cochabamba Department, Bolivia. Further analysis revealed the existence of equally important areas in Amazonas and San Martín Departments in northern Peru where large numbers of microendemic species occurred.** **Mammals** **Richness of endemic species of mammals was highest in a long band at high elevations in the Andes from Cuzco, Peru, to Cochabamba, Peru. The region of the La Libertad-San Martín departmental border in the Cordillera Central was also important for narrow-ranging endemics.** **Birds** **Bird endemism peaked in six areas ranging from the Carpish Hills region of Huánuco Department, Peru, to the Cordillera de Cocapata-Tiraque in Cochabamba, Bolivia. Despite numerous previous analyses of bird endemism in the Andes, our predictive modeling methods identified two previously unrecognized areas — the western Cordillera de Vilcabamba and the region along the Río Mapacho-Yavero east of Cuzco, both in Peru.** **Preferred Citation** **Users should cite this data compilation as:**  **Young, BE, Beck S, Córdova J, Embert D, Franke I, Hernandez P, Herzog S, Pacheco V, Timaná M, Tovar C, and Vargas J. 2007. Digital distribution maps of species endemic to the east slope of the Andes in Peru and Bolivia. NatureServe, Arlington, Virginia, USA.**  **All products that make use of these data (produced in any media, including but not limited to publications, databases, theses, websites, and oral presentations) should acknowledge the data contributors in the following manner:**  **Data provided by NatureServe in collaboration with the Centro de Datos para la Conservación (CDC) of the Universidad Nacional Agraria La Molina, the Museo de Historia Natural de la Universidad Mayor de San Marcos, and many participating natural history museums and herbaria.** |

| **Teaser** |  |
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| **Teaser**  **(Required)**  **Description: Text used to describe product when featured, referenced, or listed on landing page.**  **Format:**   * **plain text** * **25 words or less (shorter is better)** | **Teaser**  **These distribution maps model the expected ranges of 782 species of birds, mammals, amphibians, and plants endemic to the Andes-Amazon regions of Peru and Bolivia.** |
| **Teaser Image**  **(Not Required)**  **Description: Image used to describe product when featured, referenced, or listed on landing page.**  **Format:**   * **png, gif, jpg, jpeg** * **Less than 2GB** | **Teaser Image**  **<replace with filename and location>** |

| **Product Details** |  |
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| **Link Title**  **(Not Required – but should be used of Product Link is provided)**  **Description: Text that will appear on button for URL. (*Download NatureServe Vista 3.0*)**  **Format:**   * **Plain text** * **128 character limit** | **Link Title**  **Download Map Data** |
| **Product URL**  **(Not Required)**  **Description: URL for accessing tool and/or downloading files.**  **Format:**   * **Hyperlink (*www….)*** | **URL**  **<link to generic page with associated zip archives>** |
| **Location**  **(Not Required)**  **Description: Use to describe region/location pertinent to product.**  **Format:**   * **Plain text field** | **Copy**  **Andes-Amazon regions of Peru and Bolivia** |
| **Product Owner**  **(Not Required)**  **Description: This information pulls the appropriate title and contact information for the owner for display. Owners must have a staff profile.**  **Format:**   * **Single select** | **Owner**  **Bruce Young** |

| **Related Taxonomy** |  |
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| **Conservation Topic**  **(Not Required)**  **Description: Selecting topics will enable the system to display this tool on the appropriate Conservation Topic pages**  **Format:**   * **Select from list** * **Multiples allowed** | **Conservation Topics**  **<update list to include only those needed>**   * Conservation Planning * Data * Imperiled Species * Species Mapping |
| **Realm**  **(Not Required)**  **Description: Selecting terms will enable the system to display this tool on the appropriate Realm pages**  **Format:**   * **Select from list** * **Multiples allowed** | **Realms**  **<update list to include only those needed>**   * Freshwater * Terrestrial |
| **Region**  **(Not Required)**  **Description: Selecting terms will enable the system to display this tool on the appropriate Region pages**  **Format:**   * **Select from list** * **Multiples allowed** | **Regions**  **<update list to include only those needed>**   * Latin America * South America |
| **Species & Ecosystem**  **(Not Required)**  **Description: Selecting terms will enable the system to display this tool on the appropriate Species & Ecosystem pages**  **Format:**   * **Select from list** * **Multiples allowed** | **Species & Ecosystems**  **<update list to include only those needed>**   * Plants * Animals |
| **Tool Type**  **(Required)**  **Description: Places in value chain where this product plays a role.**  **Format:**   * **Select from list** * **Multiples allowed** | **Tool Types**  **<update list to include only those needed>**   * **Data, Maps, Applications** |
| **Use**  **(Not Required)**  **Description: Places in value chain where this product plays a role.**  **Format:**   * **Select from list** * **Multiples allowed** | **Uses**  **<update list to include only those needed>**   * **Scientific Standards & Methods** * **Data Collection & Recording** * **Data Management & Quality Assurance** * **Information Access & Interoperability** * **Conservation Expertise & Analysis** * **Decision Support** |

| **Related Content** |  |
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| **Related News**  **(Not Required)**  **Description: List of news items in system that refer to this product**  **Format:**   * **Select from list** * **Multiples allowed** | **News**  **n/a** |
| **Related Projects**  **(Not Required)**  **Description: List of projects in system that use or helped produce product.**  **Format:**   * **Select from list** * **Multiples allowed** | **Projects**  **[NS290.36]** |
| **Related Publication**  **(Not Required)**  **Description: List of NatureServe publications that are outputs of or contributors to this product**  **Format:**   * **Select from list** * **Single select** | **Publications**   * **Swenson JJ, Young BE, et al. 2012. Plant and animal endemism in the eastern Andean slope: challenges to conservation. BMC Ecology 12:1** |
| **Testimonials**  **(Not Required)**  **Description: Selected testimonials (in system) related to the product.**  **Format:**   * **Select from list** * **Multiples allowed** | **Testimonials**  **n/a** |