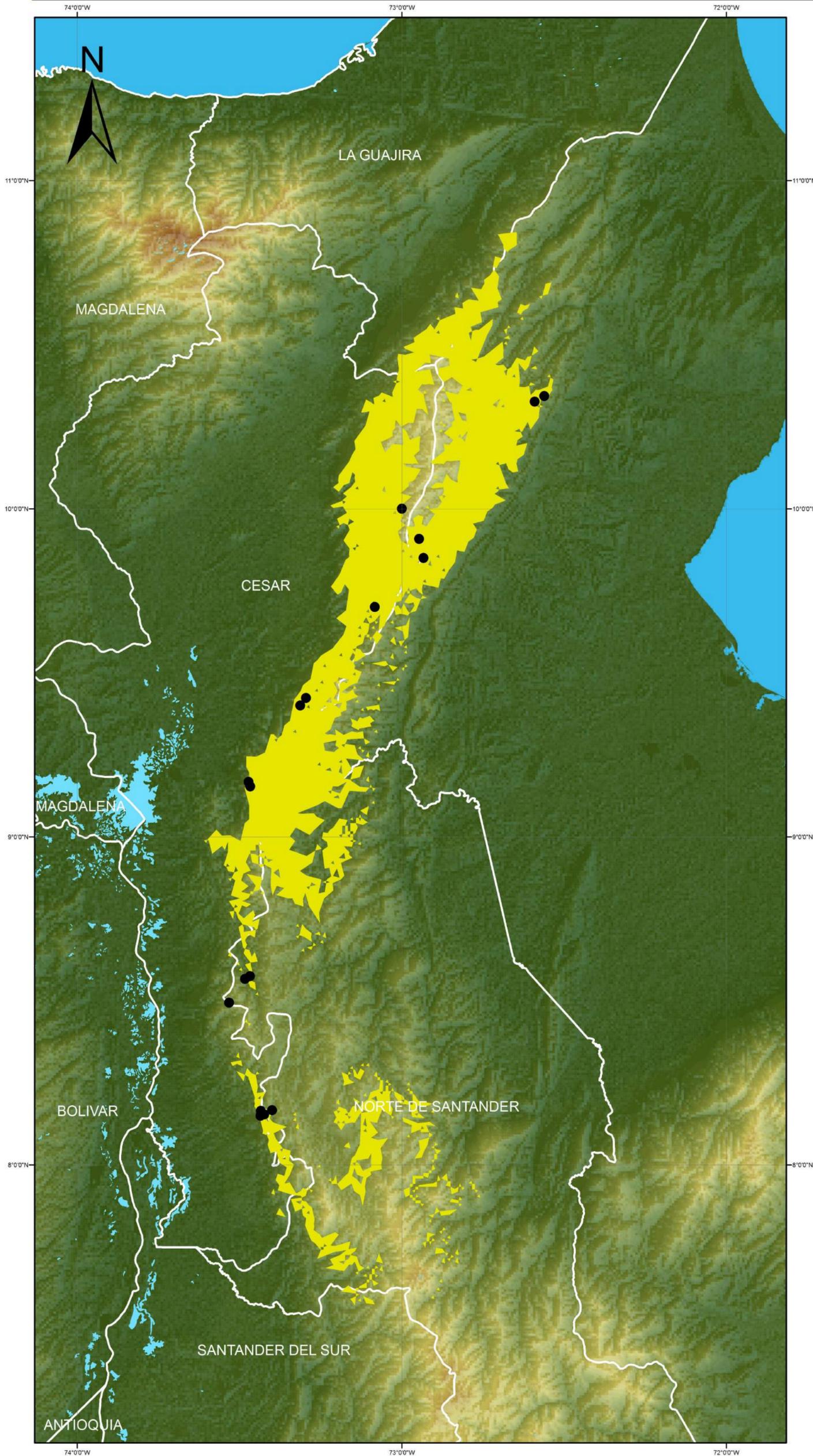


# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



Memorandum of agreement 0002 between SELVA, research for conservation in the neotropics, Strunden-Papageien-Stiftung (SPS) a foundation inside the Zoologische Gesellschaft für Arten und Populationsschutz (ZGAP) and Fonds für bedrohte Papageien (FbP).

### Extent of occurrence of Tood's Parakeet in the North-eastern Andes of Colombia

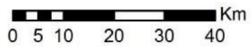
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Extent of Occurrence

Escala: 1:1.000.000



Projection: GCS-WGS-1984

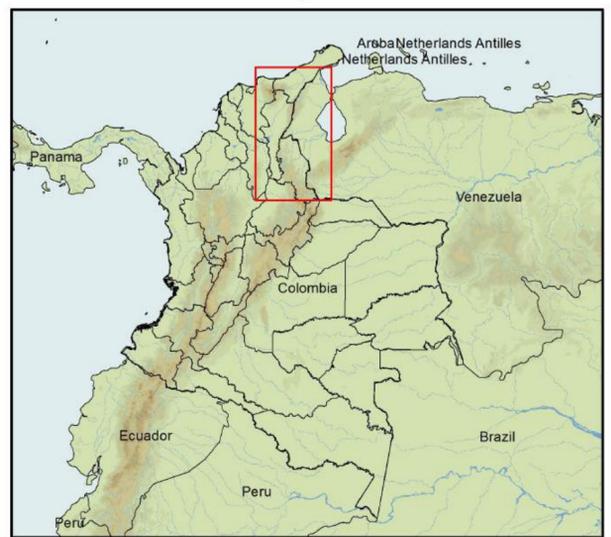
### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

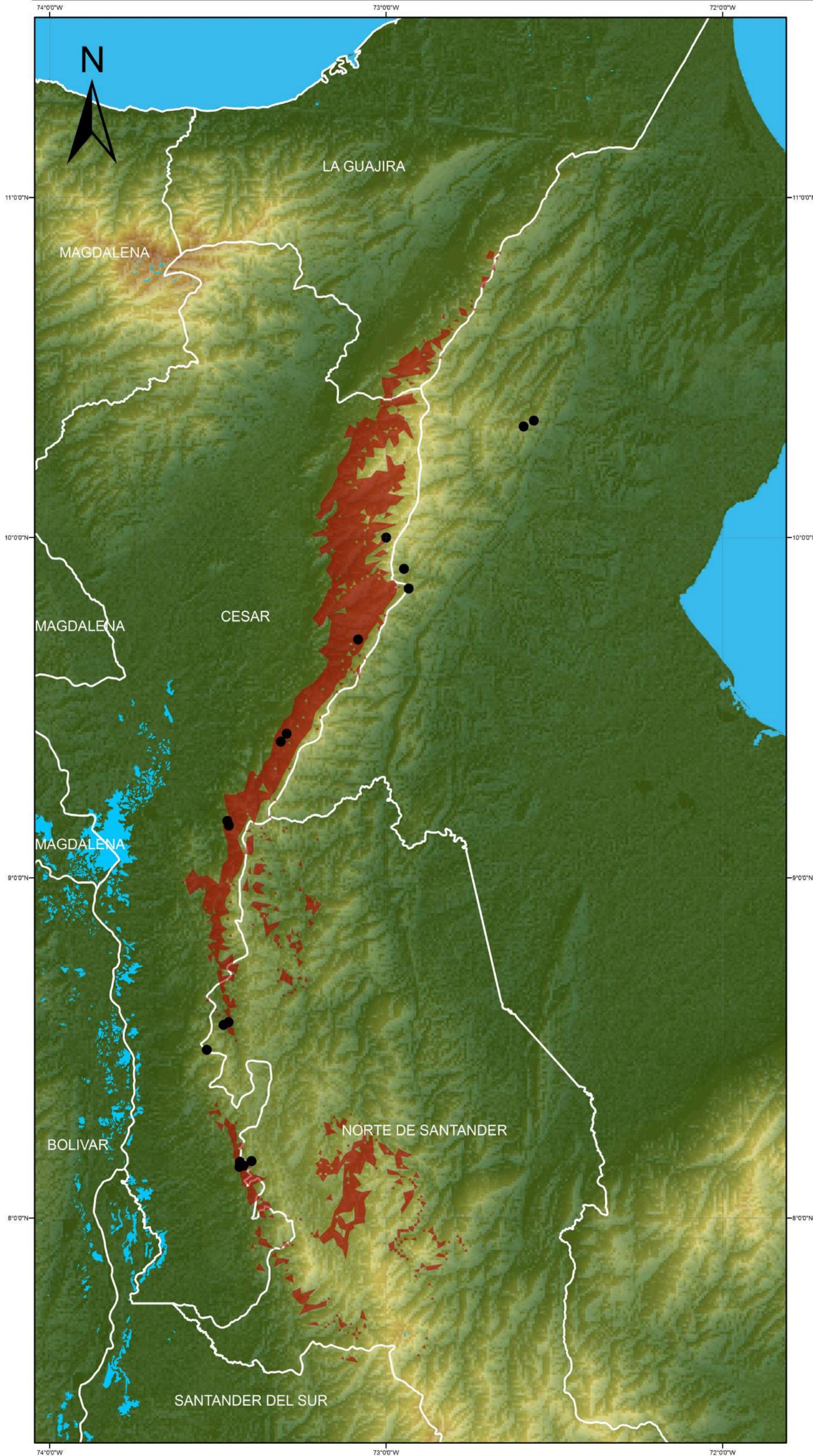
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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Area of transformed habitat for Tood's Parakeet in the North-eastern Andes of Colombia

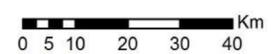
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

Legend:

- Point locality data
- ▬ Habitat Loss

Escala: 1:964.476



Projection: GCS-WGS-1984

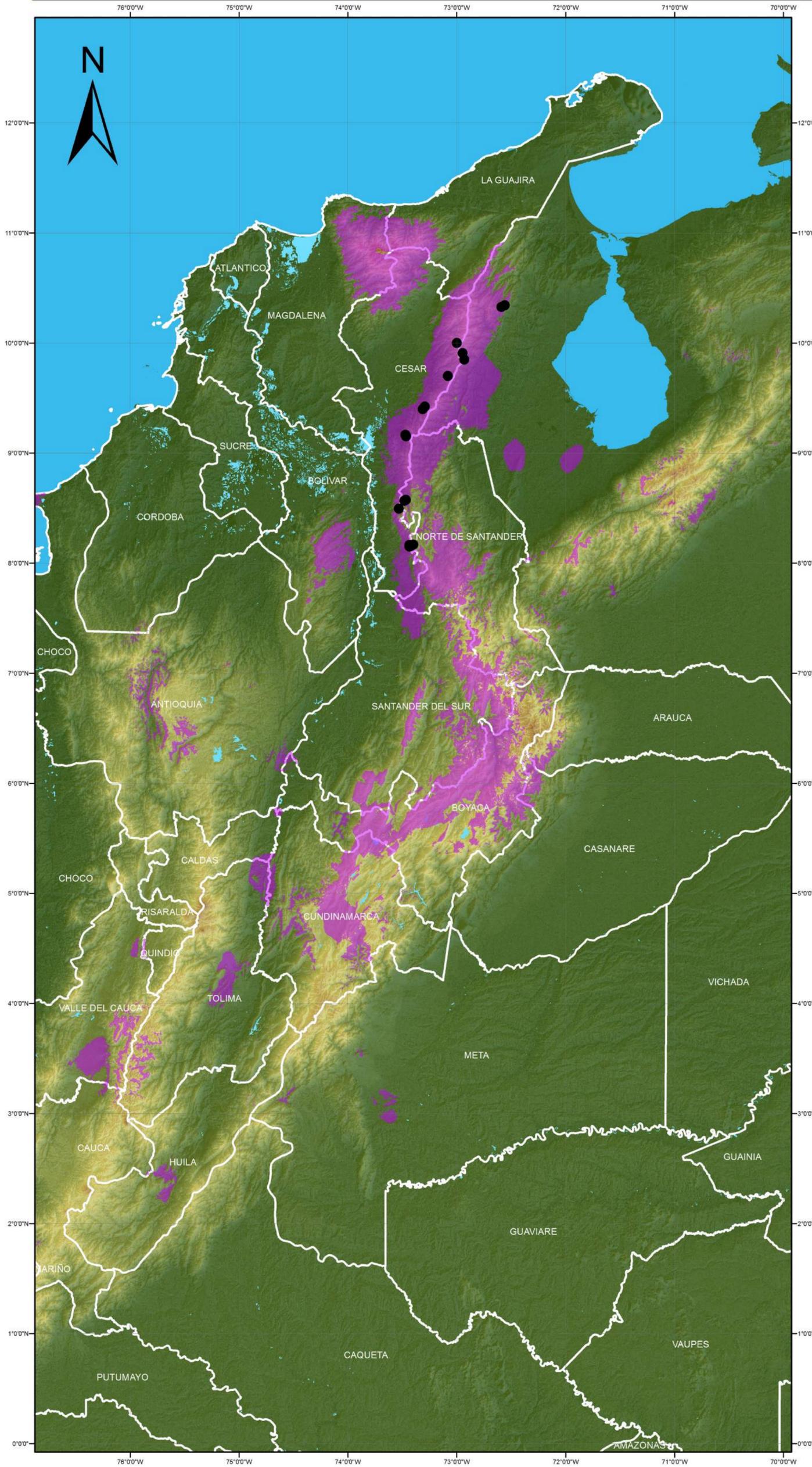
## References:

- IGAC 2007: Base cartográfica de Colombia 1:500.000
- Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.
- Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

## Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



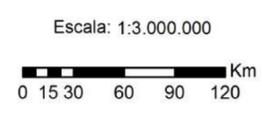
Memorandum of agreement 0002 between SELVA, research for conservation in the neotropics, Strunden-Papageien-Stiftung (SPS) a foundation inside the Zoologische Gesellschaft für Arten und Populationsschutz (ZGAP) and Fonds für bedrohte Papageien (FbP).

## Maximum potential distribution of Tood's Parakeet in the North-eastern Andes of Colombia

Prepared by:  
Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- █ Maximum potential distribution



Projection: GCS-WGS-1984

### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

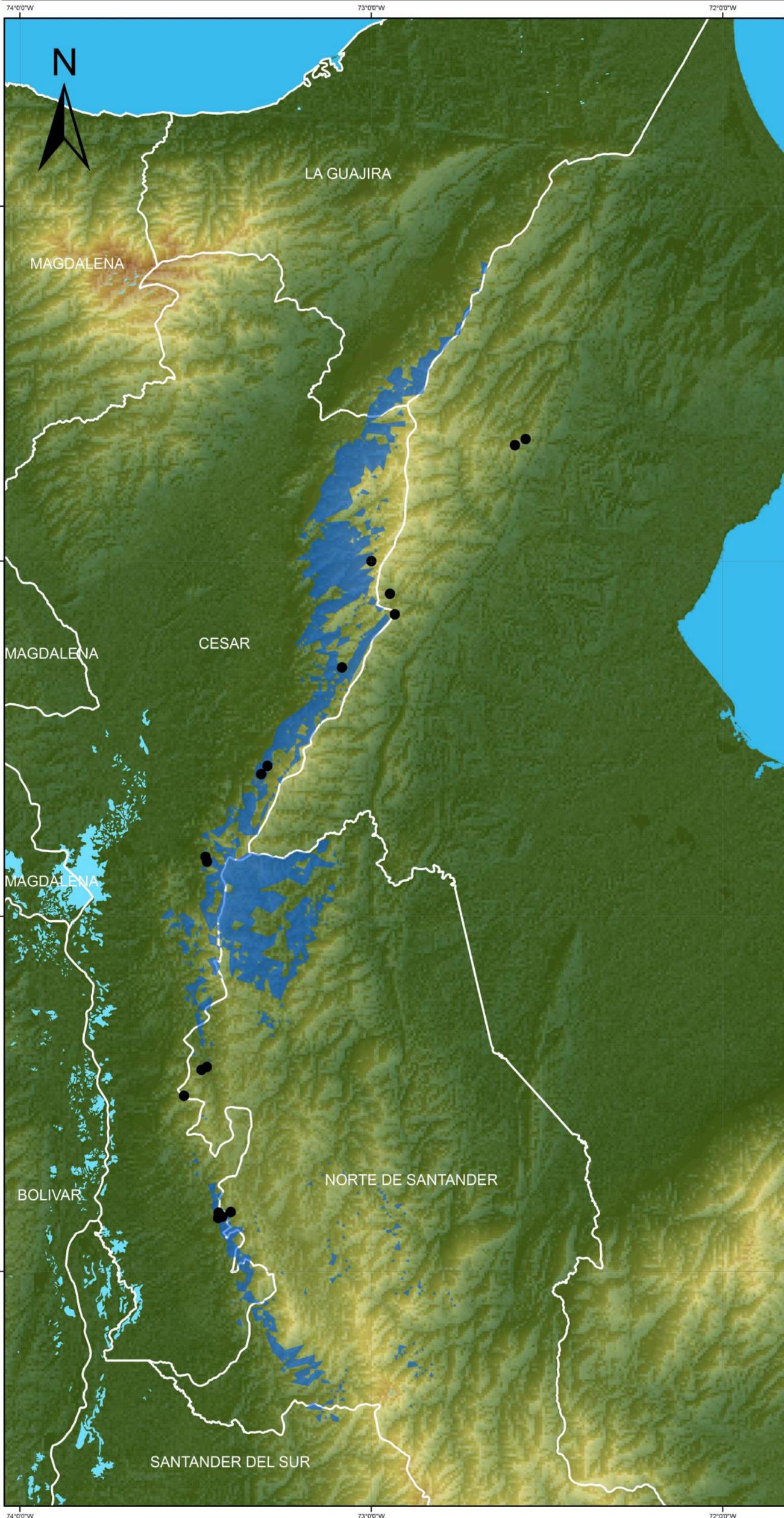
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



Memorandum of agreement 0002 between SELVA, research for conservation in the neotropics, Strunden-Papageien-Stiftung (SPS) a foundation inside the Zoologische Gesellschaft für Arten und Populationsschutz (ZGAP) and Fonds für bedrohte Papageien (FbP).

## Area of occupancy of Tood's Parakeet in the North-eastern Andes of Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Area of occupancy

Escala: 1:964.476



Projection: GCS-WGS-1984

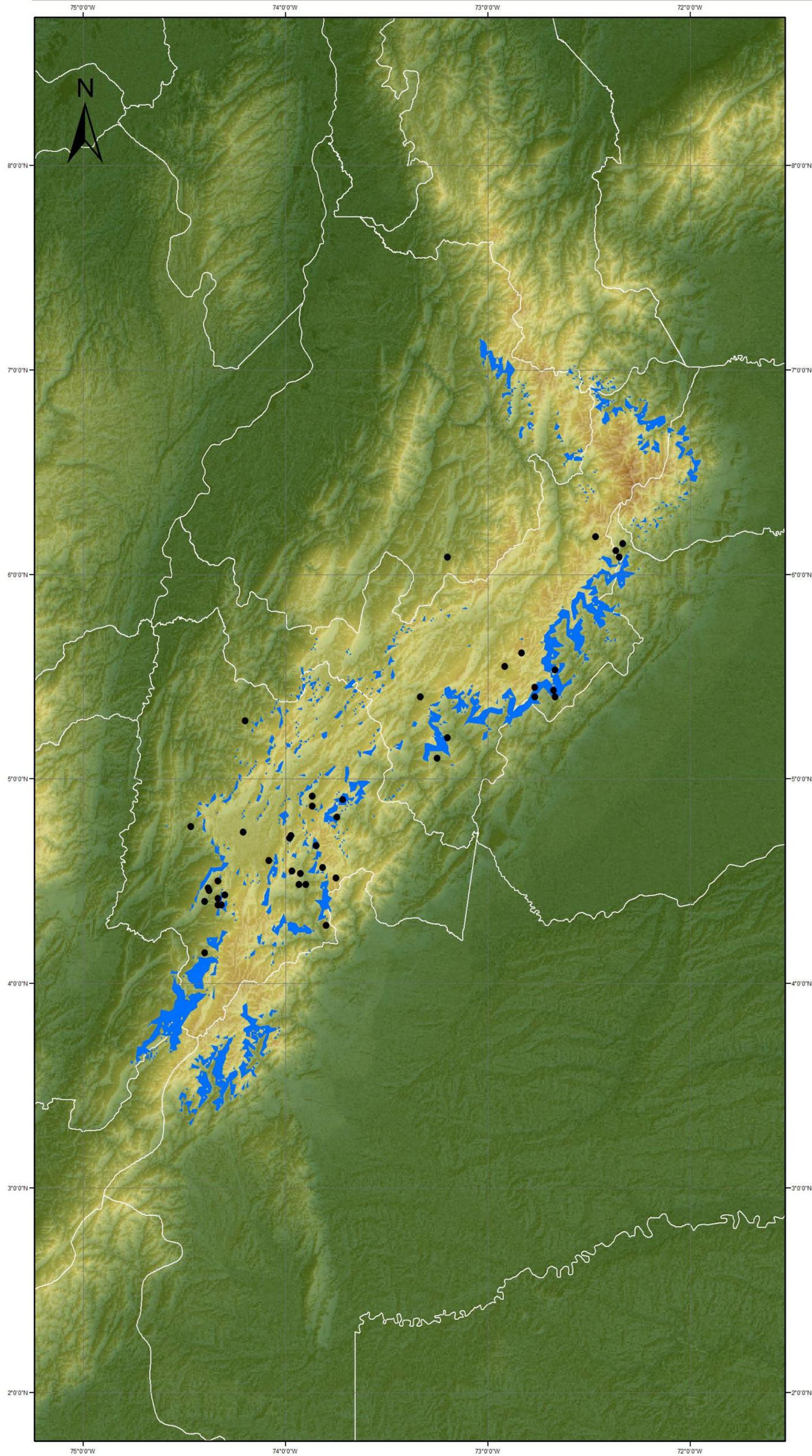
### References:

- IGAC 2007: Base cartográfica de Colombia 1:500.000
- Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.
- Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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Area of occupancy of Flame-winged Parakeet in Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

Legend:

-  Point locality data
-  Area of occupancy

Escala: 1:1.601.695

 Km  
0 5 10 20 30 40

Projection: GCS-WGS-1984

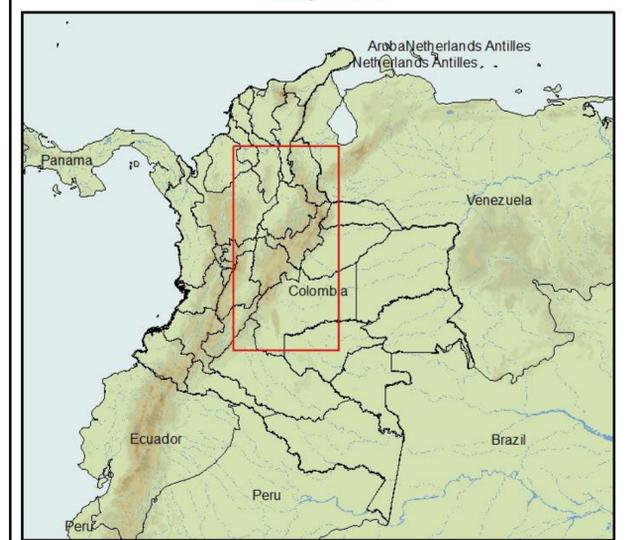
## References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

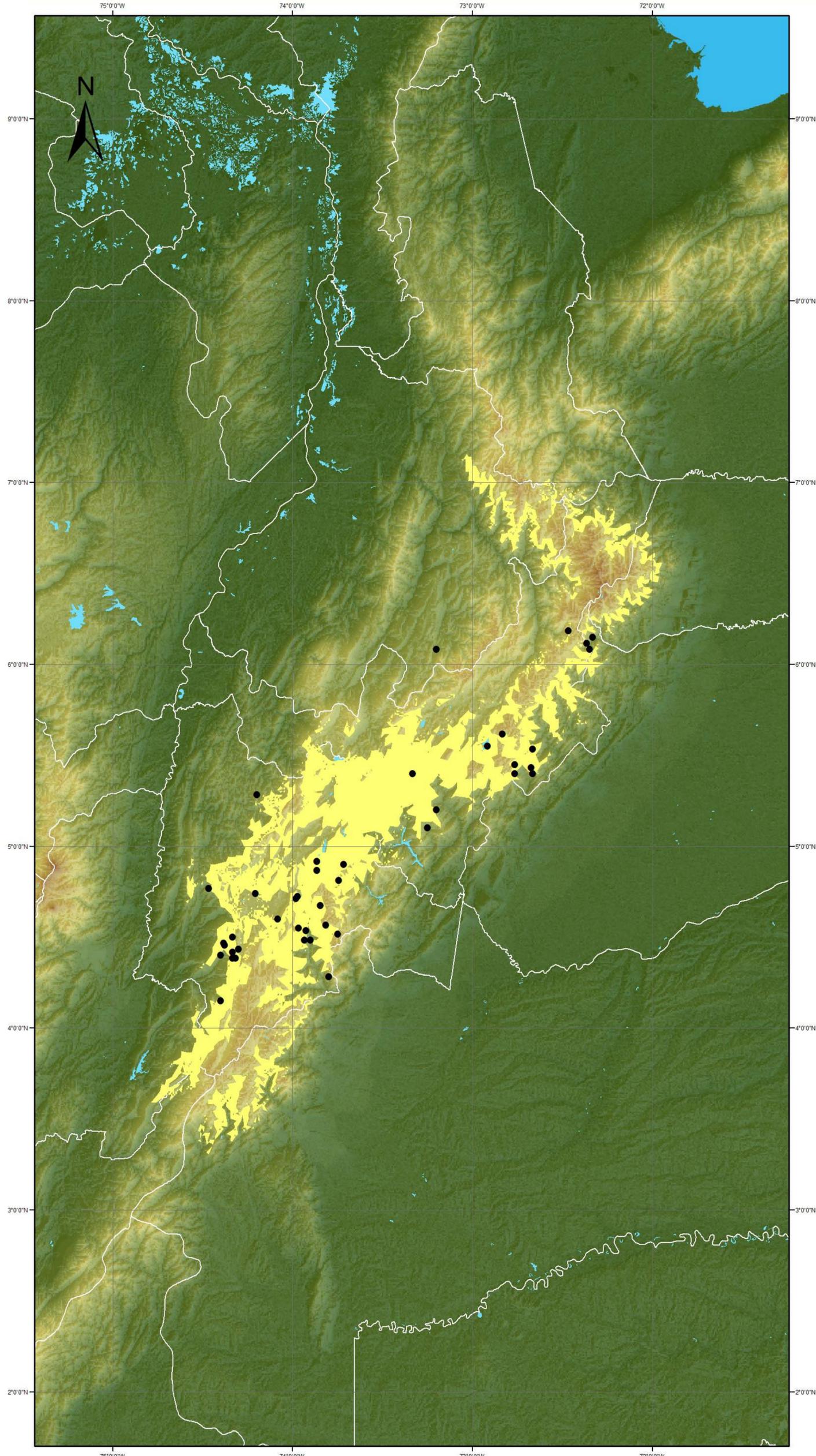
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

## Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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## Extent of occurrence of Flame-winged Parakeet in Colombia

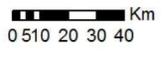
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Extent of Occurrence

Escala: 1:1.810.169



Projection: GCS-WGS-1984

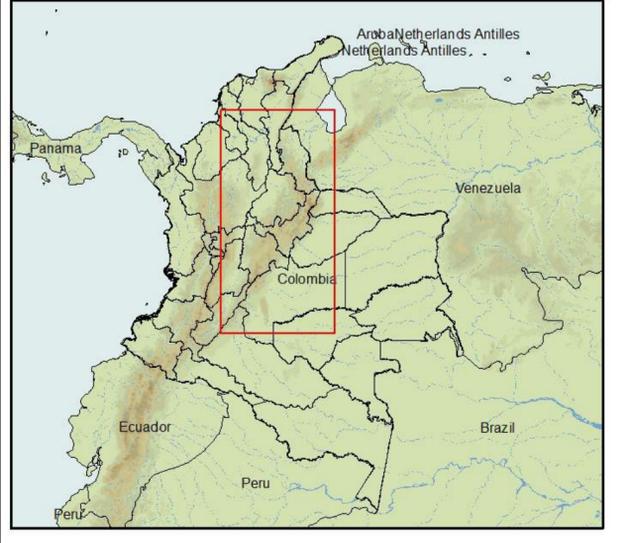
### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

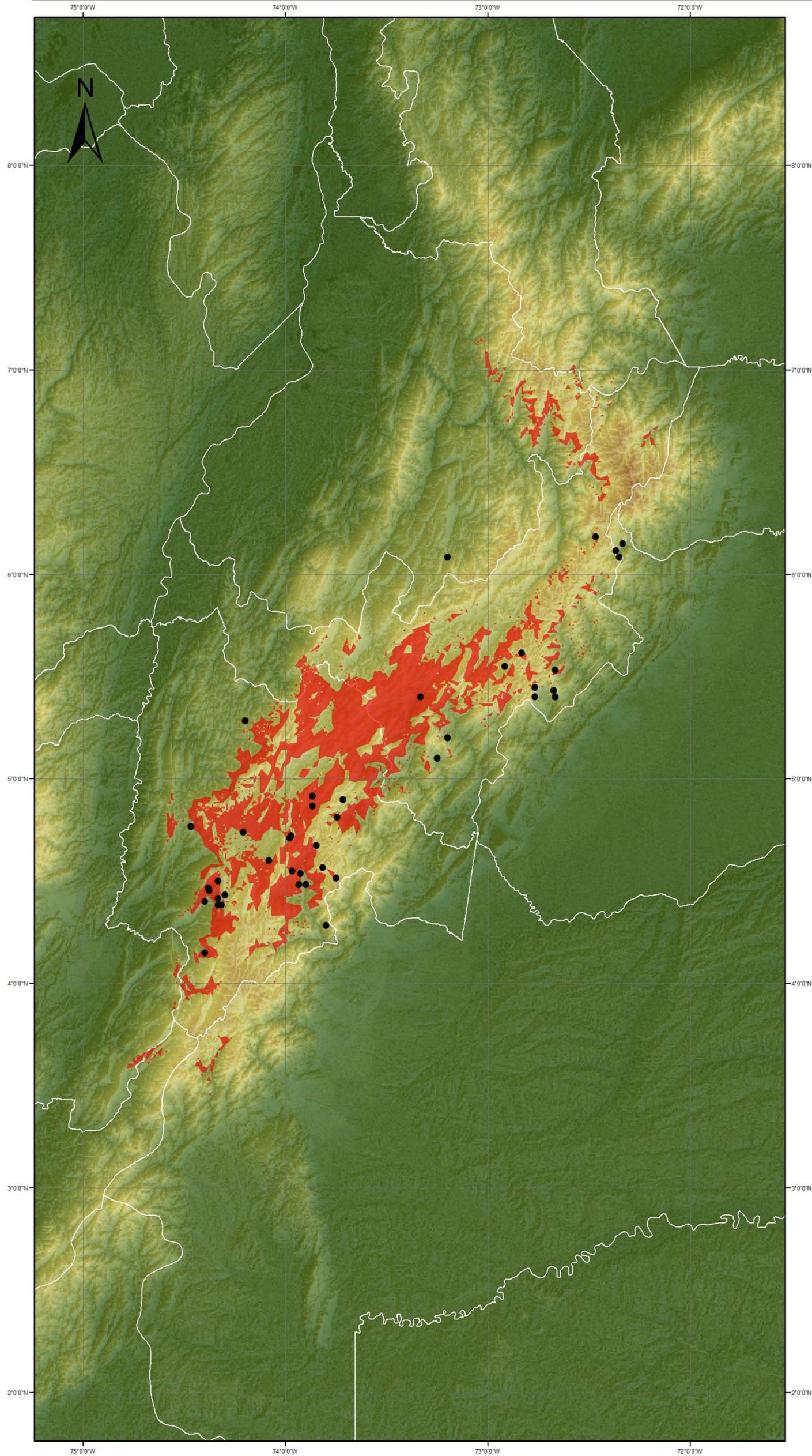
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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## Area of transformed habitat of Flame-winged Parakeet in Colombia

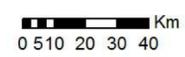
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Area of transformed habitat

Escala: 1:1.601.695

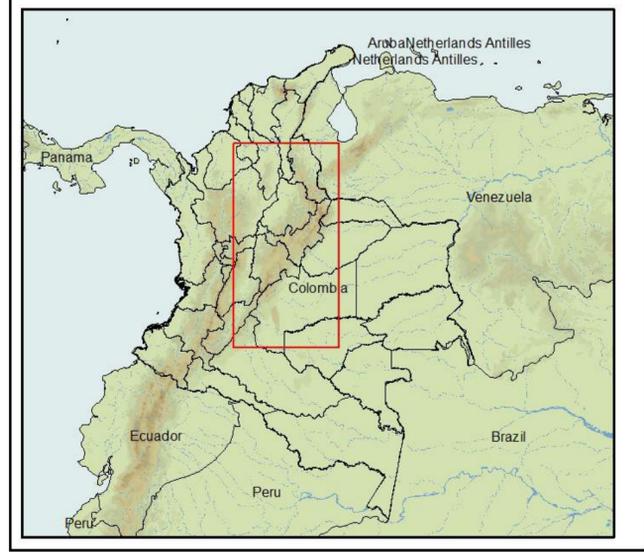


Projection: GCS-WGS-1984

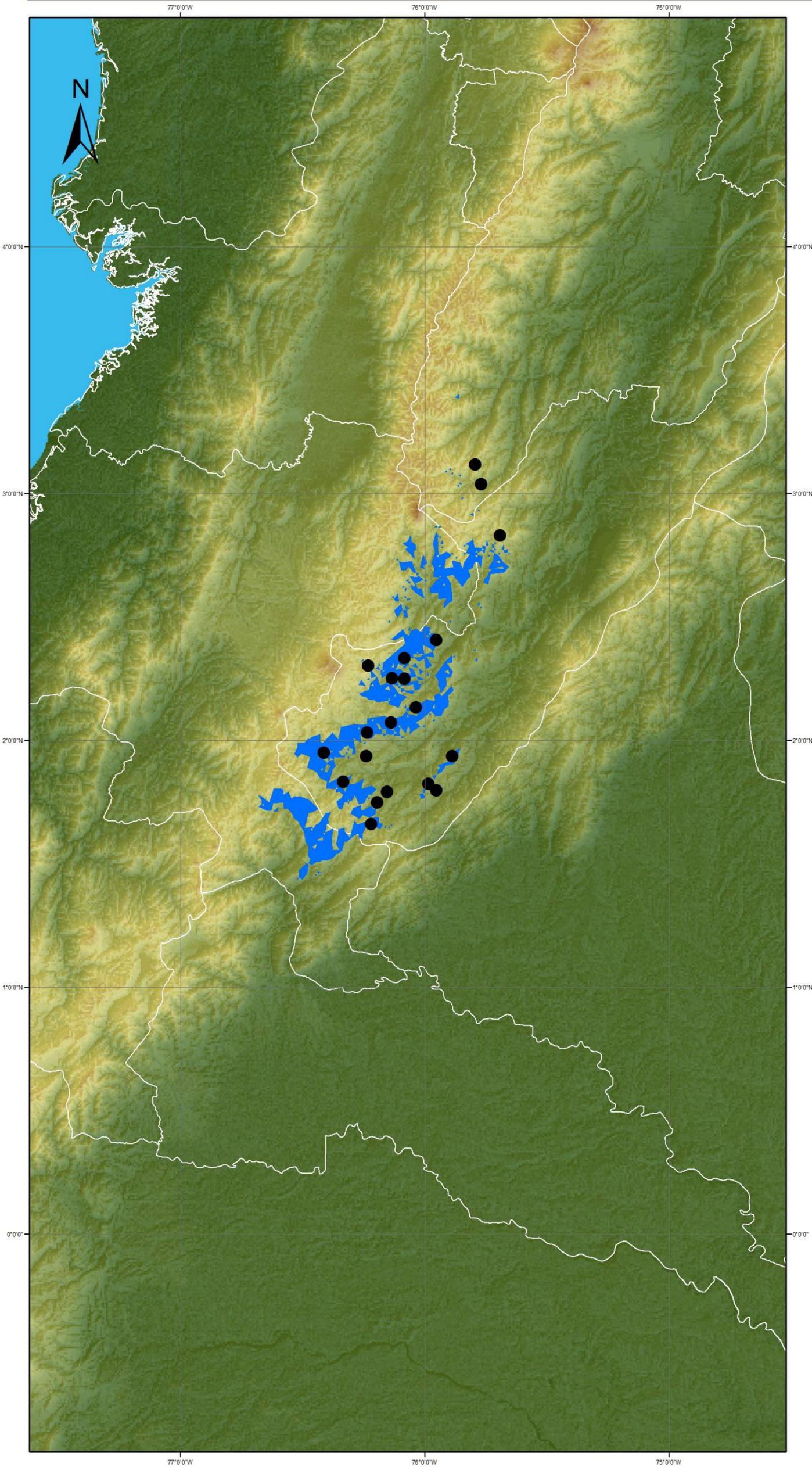
### References:

- IGAC 2007: Base cartográfica de Colombia 1:500.000
- Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.
- Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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Area of occupancy of Maroon-tailed Parakeet in Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

Legend:

-  Point locality data
-  Area of occupancy

Escala: 1:1.337.219

 Km  
0 5 10 20 30 40

Projection: GCS-WGS-1984

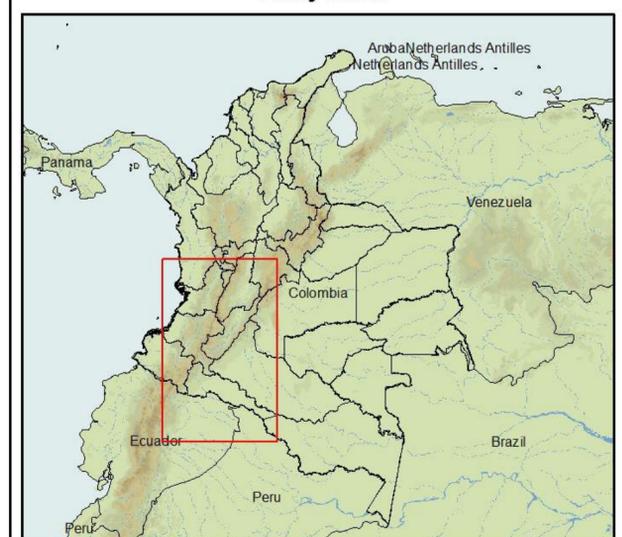
## References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

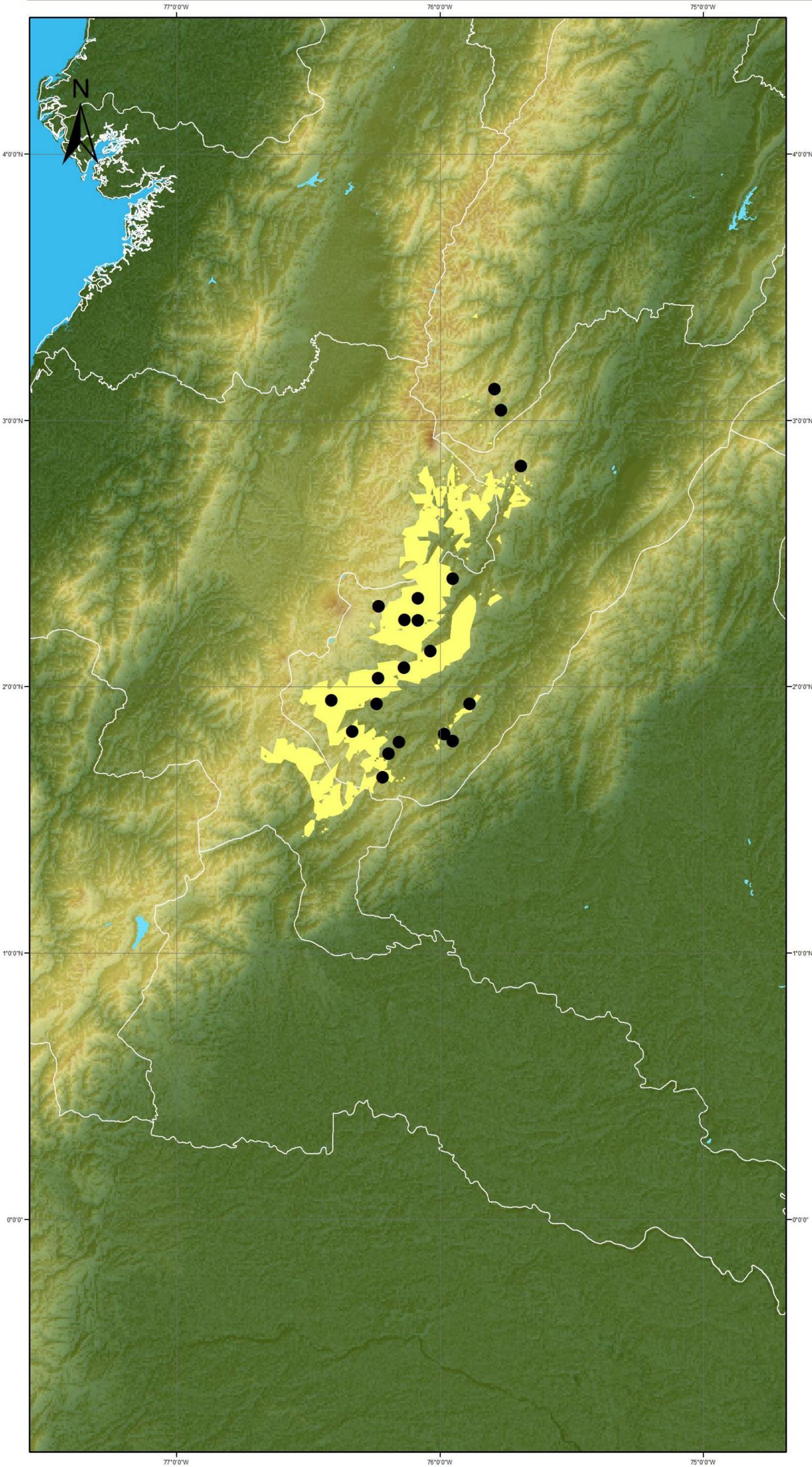
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of *Pyrrhura* parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

## Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



Memorandum of agreement 0002 between SELVA, research for conservation in the neotropics, Strunden-Papageien-Stiftung (SPS) a foundation inside the Zoologische Gesellschaft für Arten und Populationsschutz (ZGAP) and Fonds für bedrohte Papageien (FbP).

Extent of occurrence of Maroon-tailed Parakeet in Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

Legend:



Escala: 1:1.241.538



Projection: GCS-WGS-1984

## References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

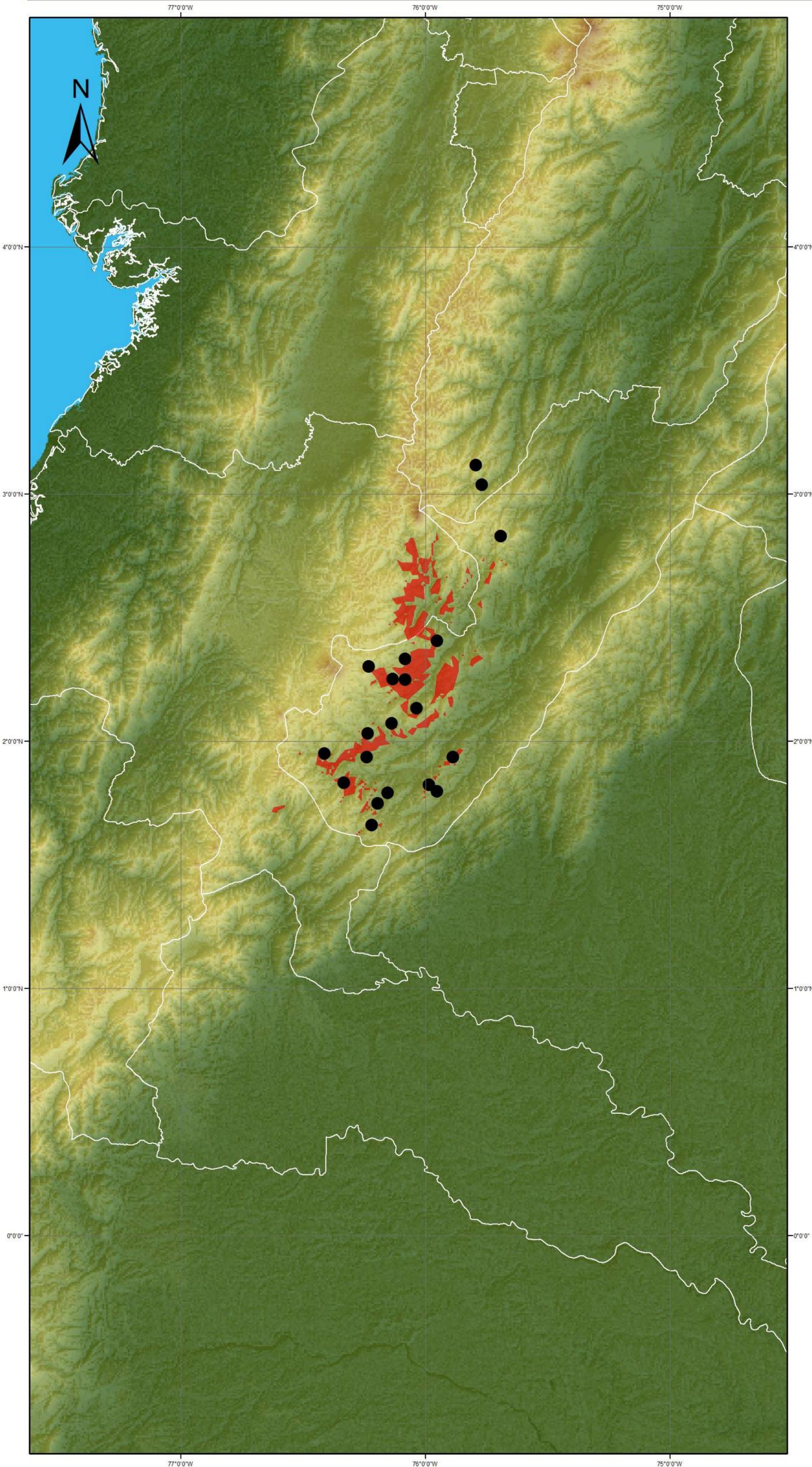
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of *Pyrrhura* parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

## Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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Area of transformed habitat of Maroon-tailed Parakeet in Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

Legend:

-  Point locality data
-  Area of transformed habitat

Escala: 1:1.337.219

 Km  
0 5 10 20 30 40

Projection: GCS-WGS-1984

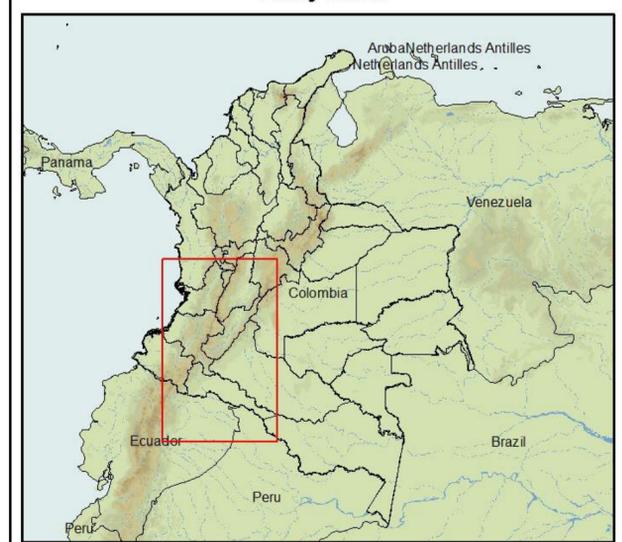
## References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

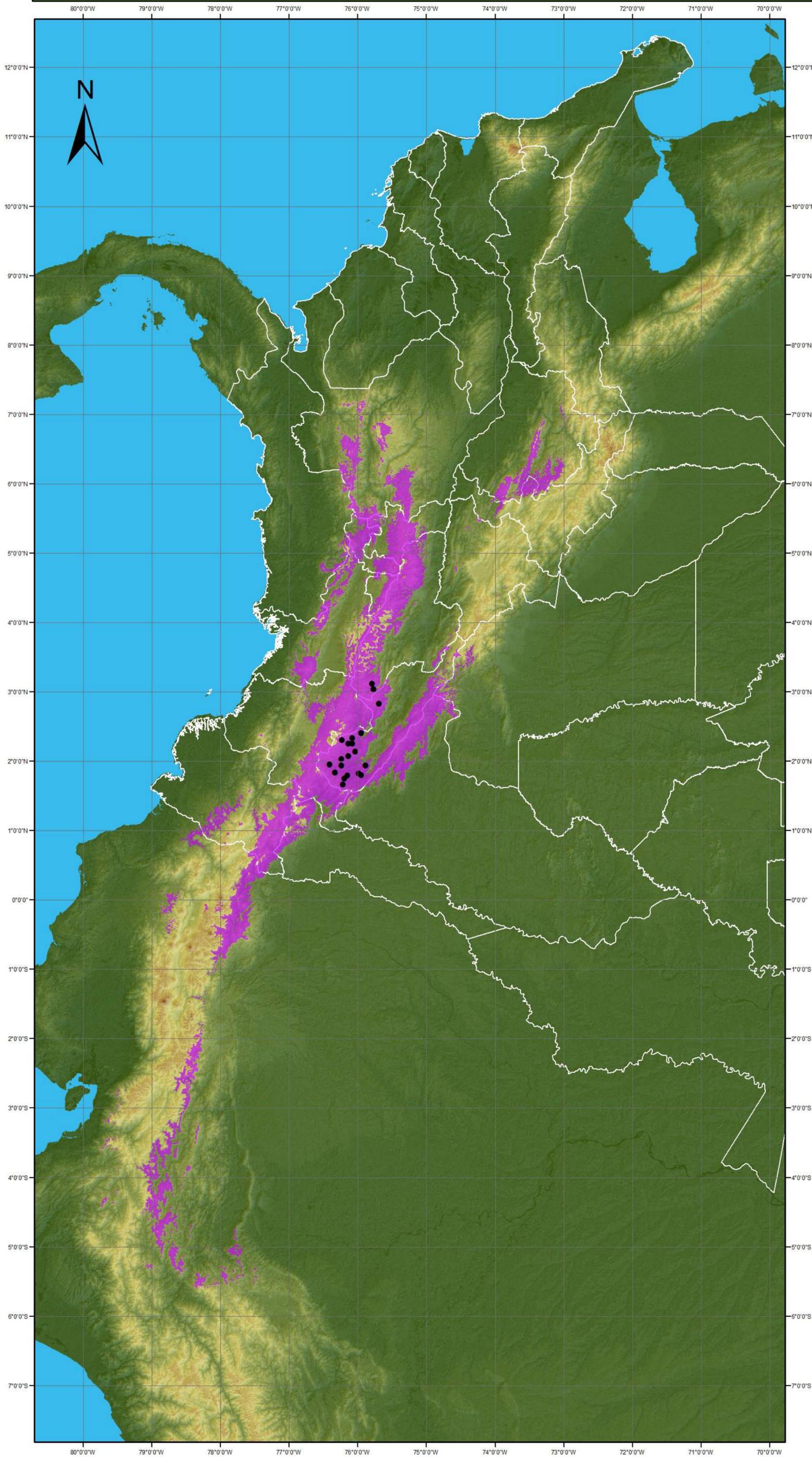
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of *Pyrrhura* parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

## Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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## Maximum potential distribution of Maroon-tailed Parakeet in Colombia

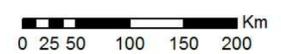
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Maximum potential distribution

Escala: 1:4.715.239



Projection: GCS-WGS-1984

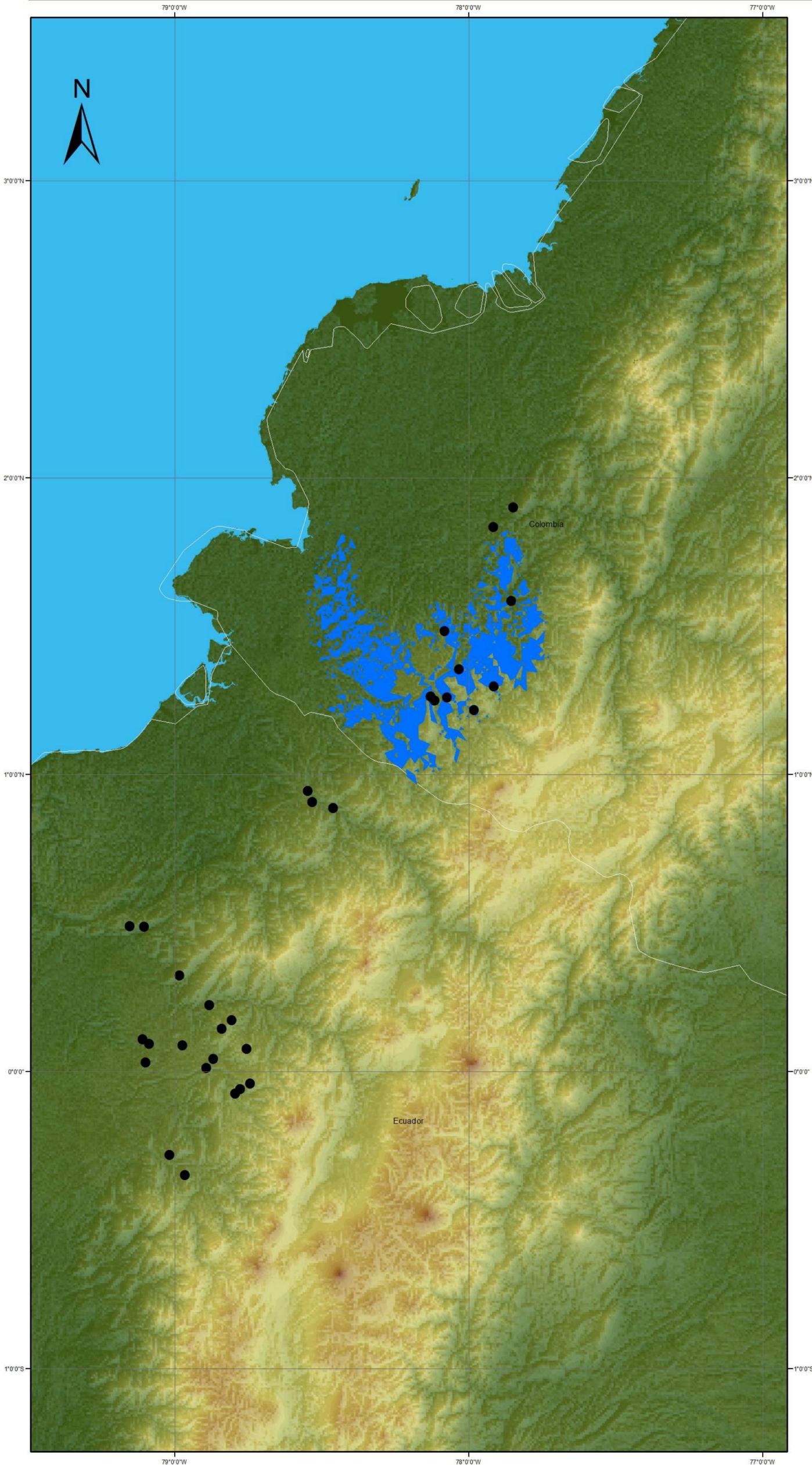
### References:

- IGAC 2007: Base cartográfica de Colombia 1:500.000
- Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.
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### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



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Area of occupancy Choco Parakeet in Colombia

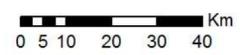
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

Legend:

-  Point locality data
-  Area of occupancy

Escala: 1:1.111.617



Projection: GCS-WGS-1984

## References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

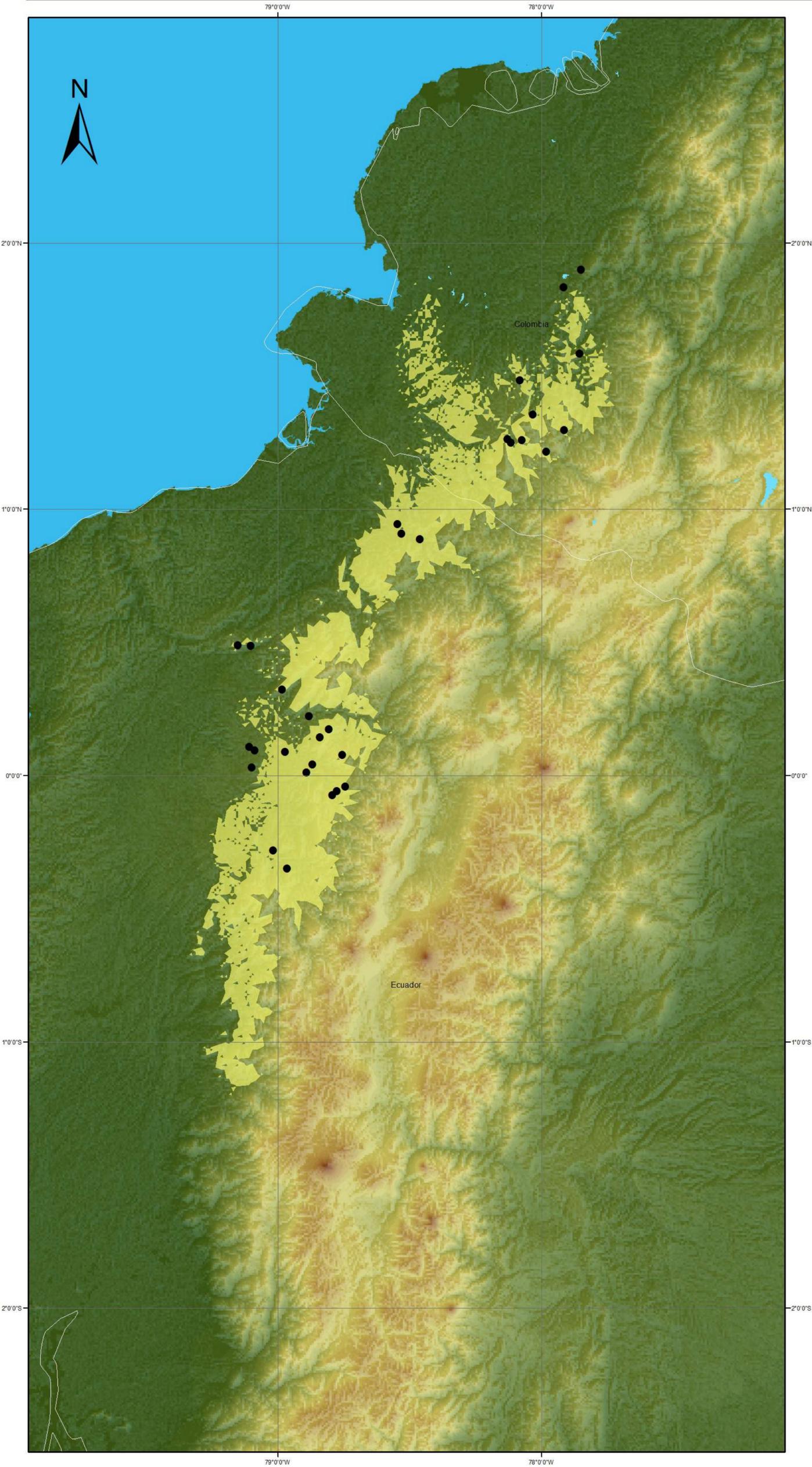
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of *Pyrrhura* parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

## Study Area



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## Extent of occurrence of Choco Parakeet in Colombia

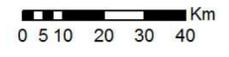
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

-  Point locality data
-  Extent of Occurrence

Escala: 1:1.241.538



Projection: GCS-WGS-1984

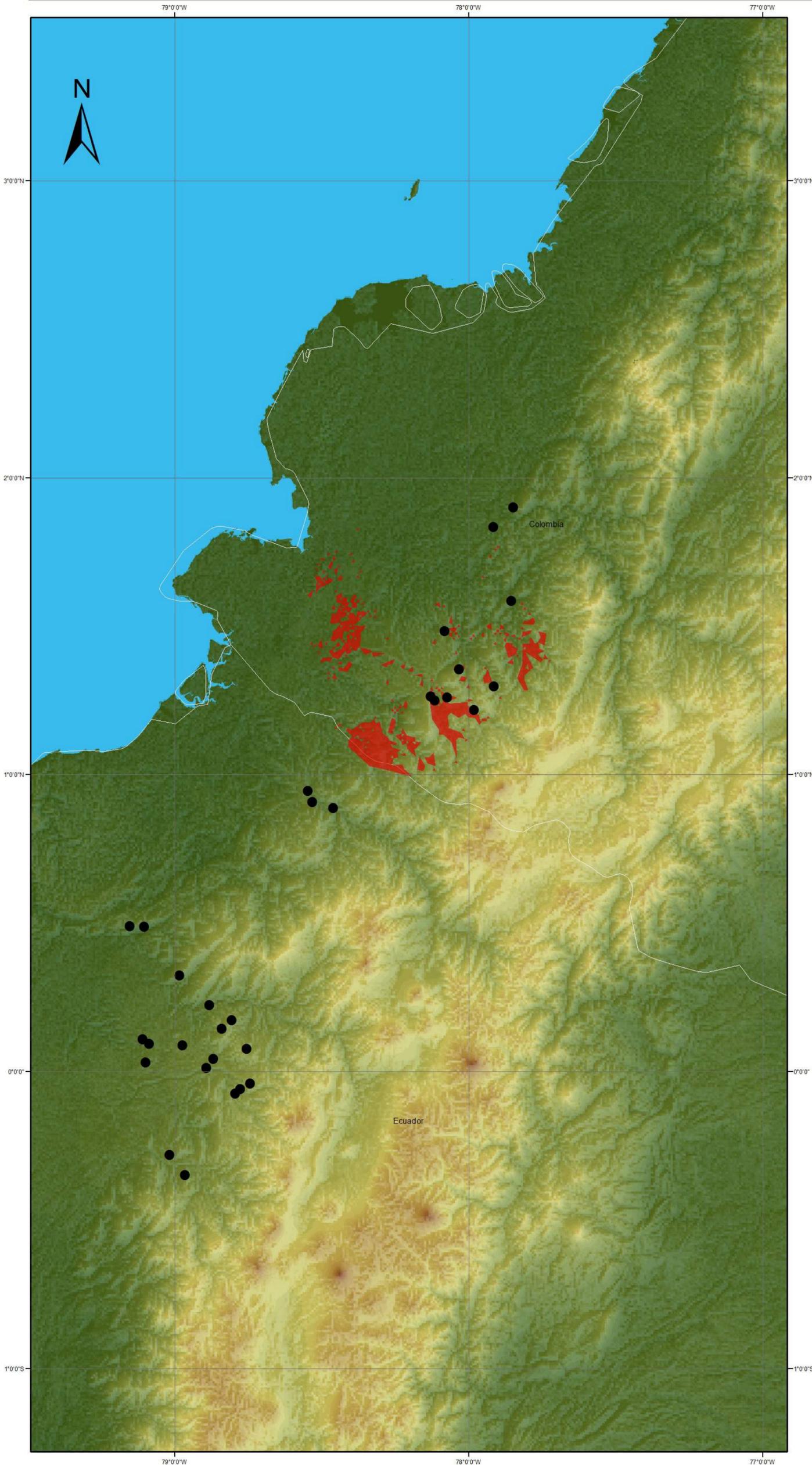
### References:

- IGAC 2007: Base cartográfica de Colombia 1:500.000
- Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.
- Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



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## Area of transformed habitat of Choco Parakeet in Colombia

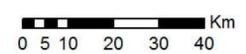
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

-  Point locality data
-  Area of transformed habitat

Escala: 1:1.111.617



Projection: GCS-WGS-1984

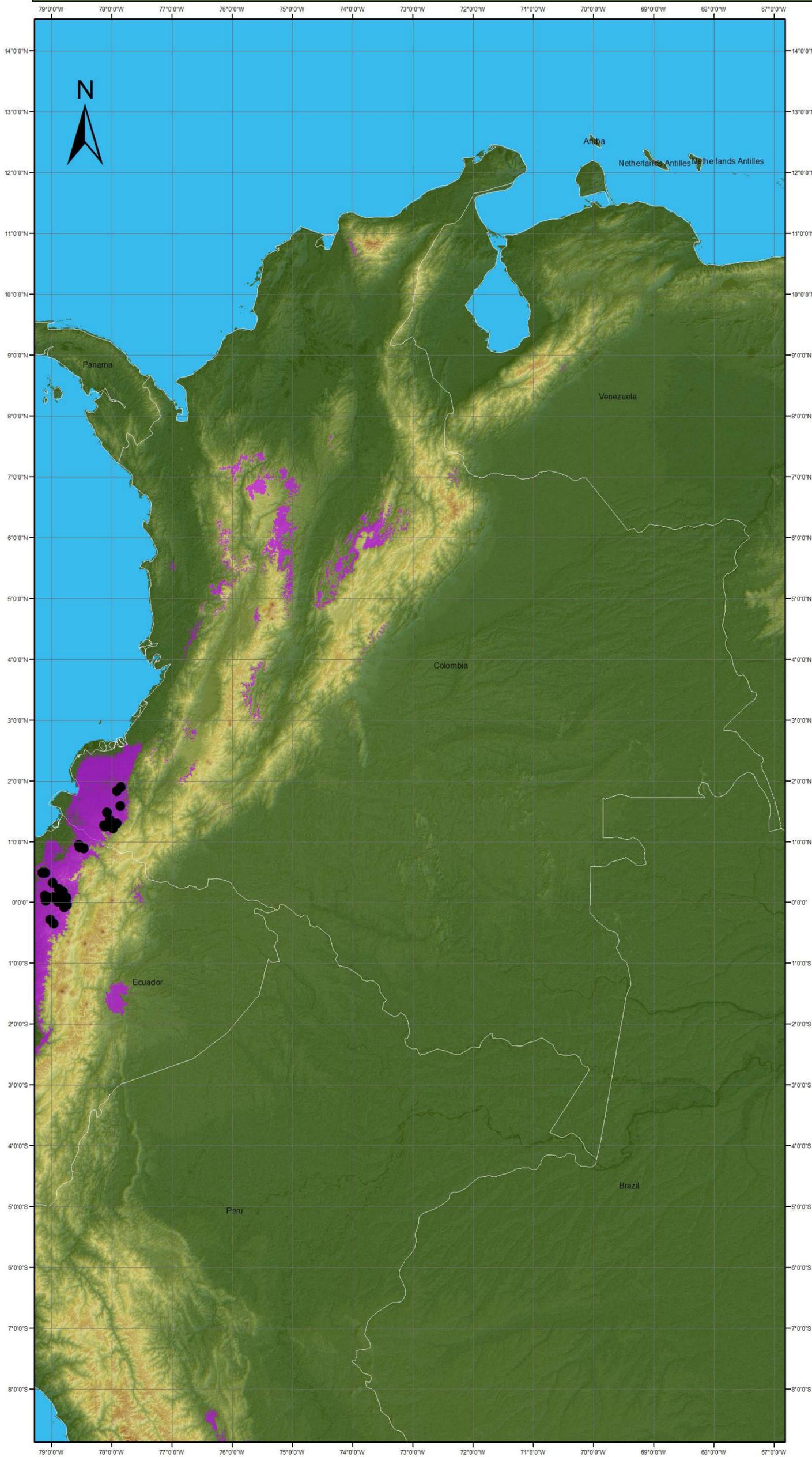
### References:

- IGAC 2007: Base cartográfica de Colombia 1:500.000
- Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.
- Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



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## maximum potential distribution of Choco Parakeet in Colombia

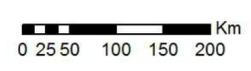
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Maximum potential distribution

Escala: 1:5.384.080



Projection: GCS-WGS-1984

### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

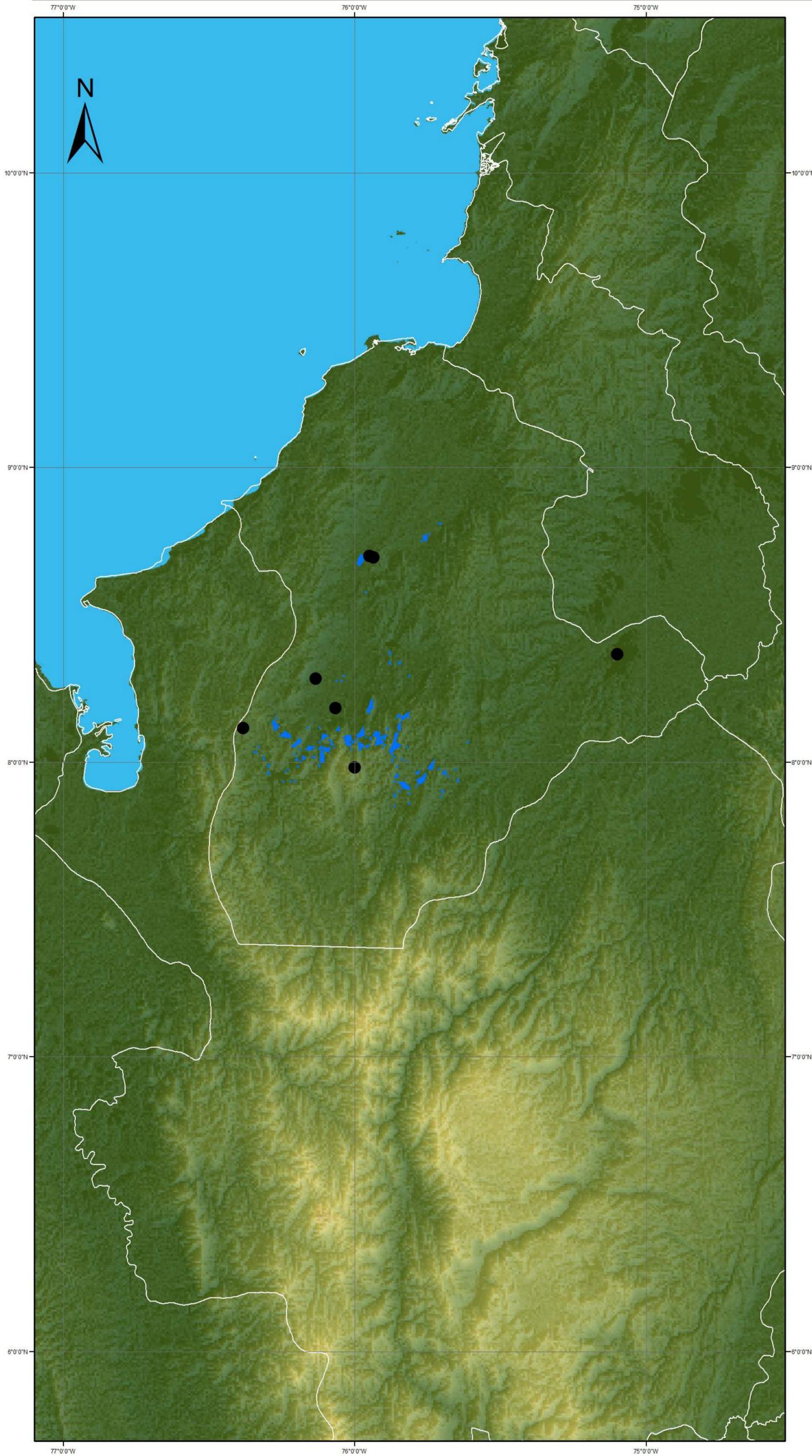
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area



# CARTOGRAPHIC GUIDE OF DISTRIBUTION AND CONSERVATION STATUS OF PYRRHURA PARAKEETS IN COLOMBIA



Memorandum of agreement 0002 between SELVA, research for conservation in the neotropics, Strunden-Papageien-Stiftung (SPS) a foundation inside the Zoologische Gesellschaft für Arten und Populationsschutz (ZGAP) and Fonds für bedrohte Papageien (FbP).

### Area of occupancy Sinu Parakeet in Colombia

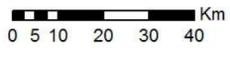
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Area of occupancy

Escala: 1:1.111.617



Projection: GCS-WGS-1984

### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

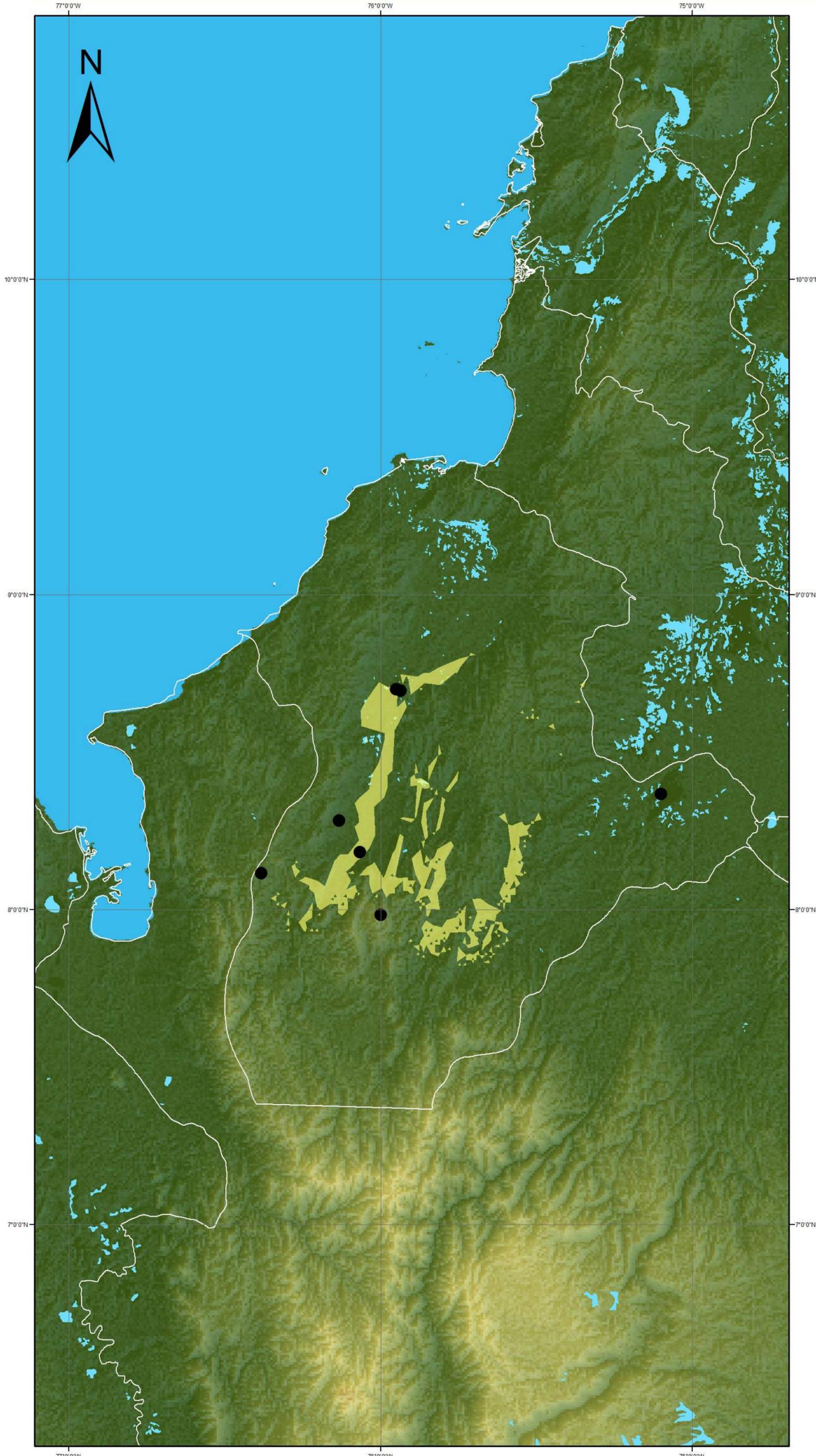
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

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## Extent of occurrence of Sinu Parakeet in Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Extent of Occurrence

Escala: 1:1.044.835



Projection: GCS-WGS-1984

### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

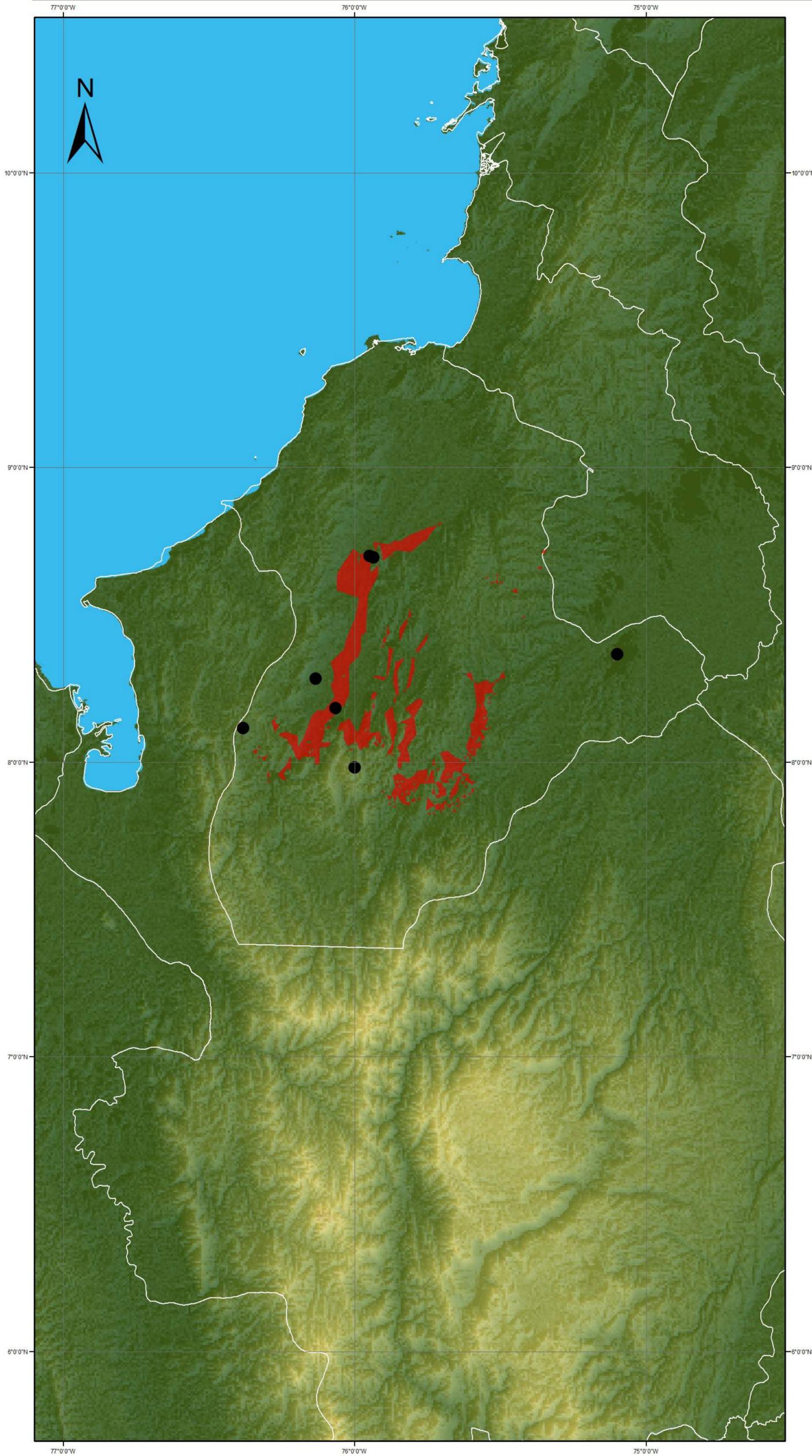
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

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### Study Area



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## Area of transformed habitat of Sinu Parakeet in Colombia

Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

-  Point locality data
-  Area of transformed habitat

Escala: 1:1.111.617



Projection: GCS-WGS-1984

### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

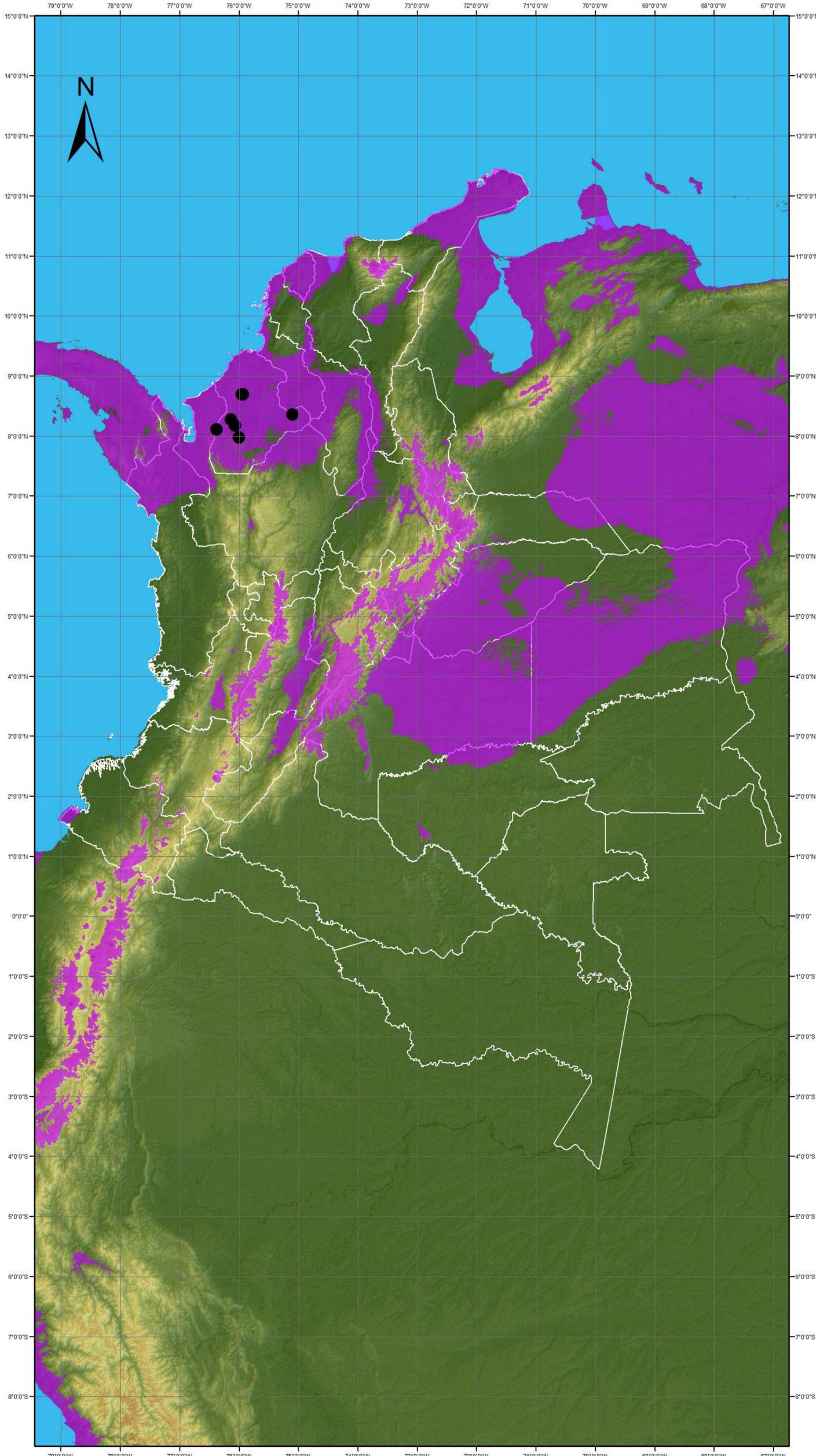
Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

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### Study Area



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## Maximum potential distribution of Sinu Parakeet in Colombia

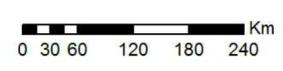
Prepared by:

Paez-Ortiz C.A.  
Botero-Deladillo E.

### Legend:

- Point locality data
- Maximum potential distribution

Escala: 1:5.483.977



Projection: GCS-WGS-1984

### References:

IGAC 2007: Base cartográfica de Colombia 1:500.000

Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: <http://srtm.csi.cgiar.org>.

Botero-Delgadillo E., C. A. Paez-Ortiz & N. Bayly. 2011. (In press). Biogeography and conservation of Andean and Trans-Andean populations of Pyrrhura parakeets in Colombia: Modelling geographic distributions to identify independent conservation units

### Study Area

