

Working with Data

A Workshop on Understanding, Visualising and Mapping Data

Chennai, 3-5 August 2012

Second day

4th August 2012

- | | |
|--|---------------|
| 1. Presentation by Open Knowledge Foundation | [10:30-11:00] |
| 2. What is data visualisation? | [11:15-12:15] |
| 3. Tools for spatial data collection | [13:30-14:15] |
| 4. Introduction to tools | [14:15-14:30] |
| 5. Session on geo/visualisation tools #1 | [14:45-16:00] |
| 6. Session on geo/visualisation tools #2 | [16:15-17:30] |

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Collecting Spatial Data

Free Spatial Data

Landsat

SRTM

WorldClim

GADM

Free Spatial Data

Landsat Extended Thematic Mapper+ and Multi-Spectral Scanner

Landsat

SRTM

WorldClim

GADM

Free Spatial Data **Landsat Extended Thematic Mapper+
and Multi-Spectral Scanner**

Landsat

SRTM

WorldClim

GADM



321



432



453



742

Free Spatial Data

Landsat Extended Thematic Mapper+ and Multi-Spectral Scanner

Landsat

SRTM

Free Land Cover Data

WorldClim

GADM

**[http://www.glcf.umd.edu/
data/landsat/.org/](http://www.glcf.umd.edu/data/landsat/.org/)**

Lots of derivative products

Free Spatial Data **Landsat Extended Thematic Mapper+
and Multi-Spectral Scanner**

Landsat

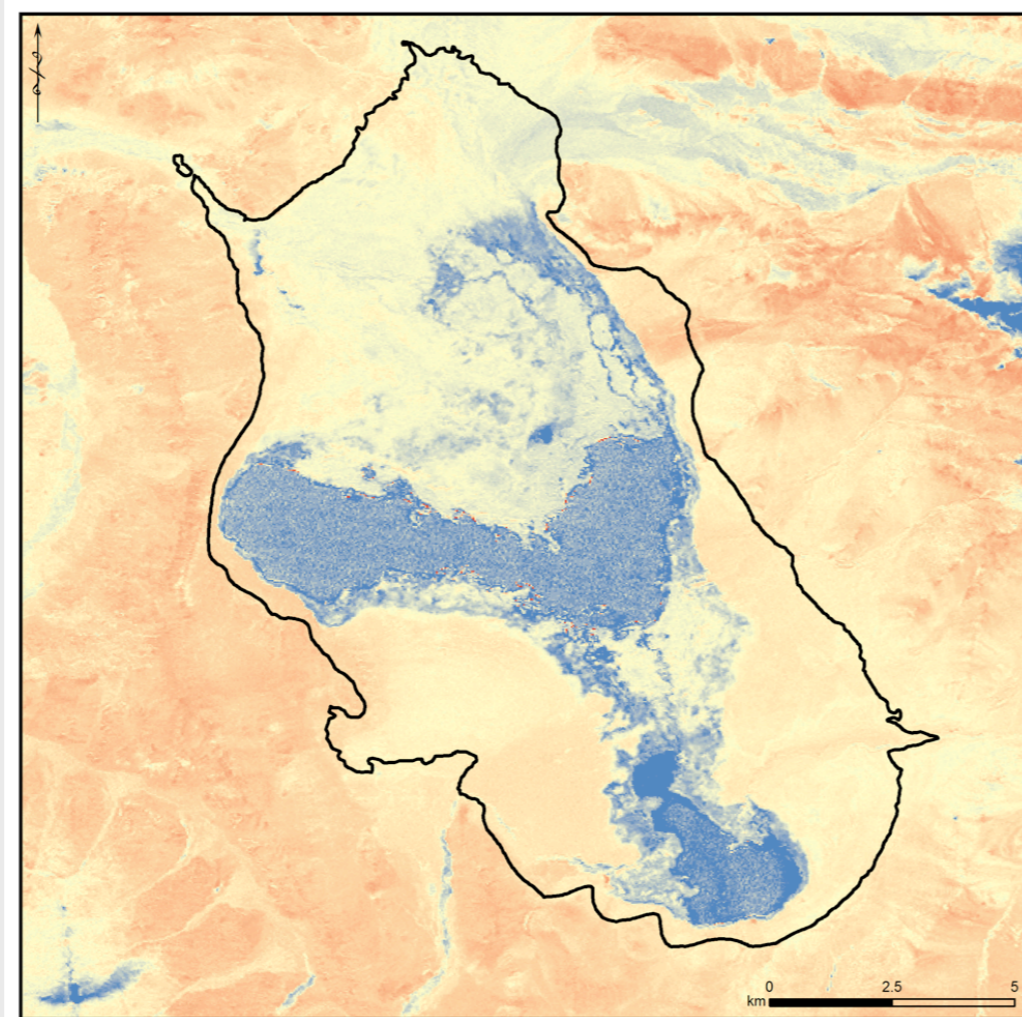
NDWI

NDVI

SRTM

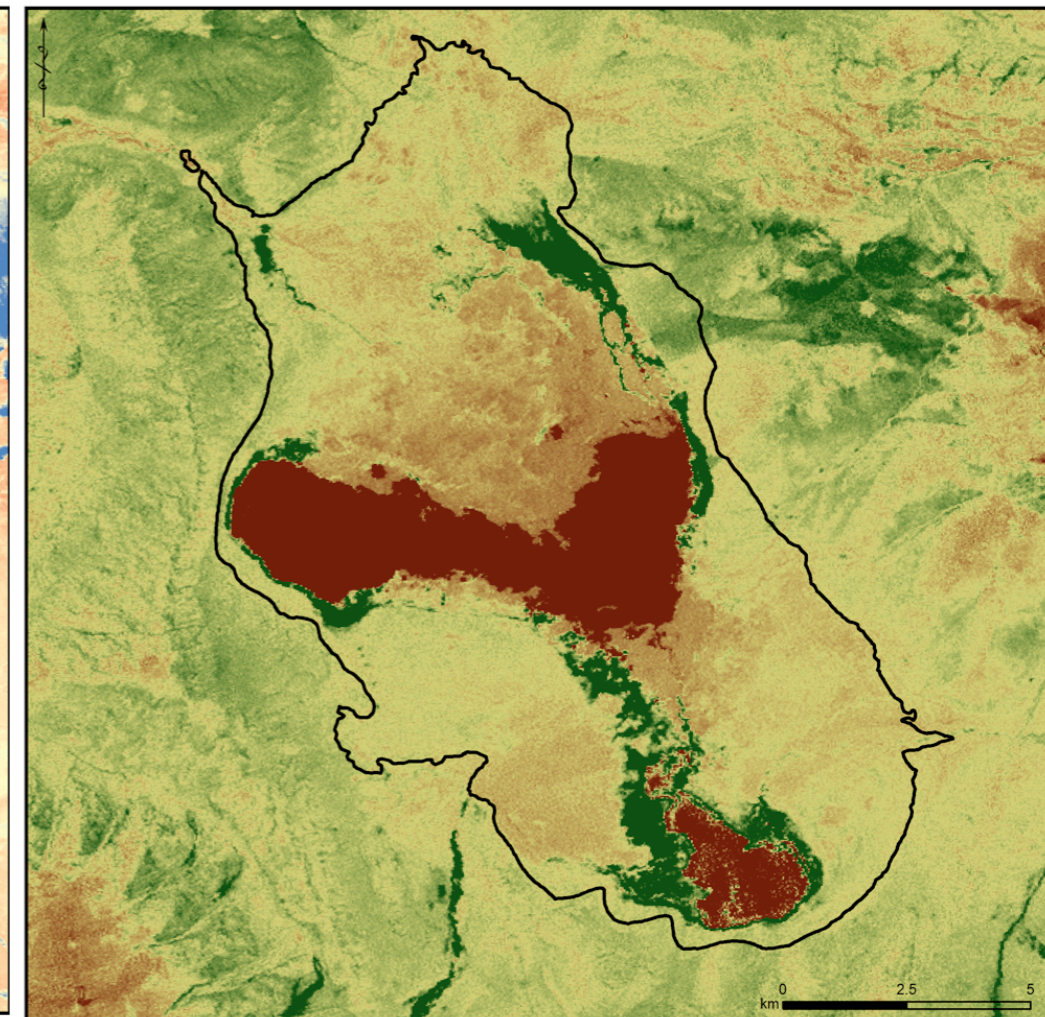
WorldClim

GADM



NDWI 2000

High : 0.977012
Low : -0.857143



NDVI 2000

High : 0.543307
Low : -0.935484

Free Spatial Data

Shuttle Radar Topography Mission

Landsat

SRTM

WorldClim

GADM

Free Spatial Data

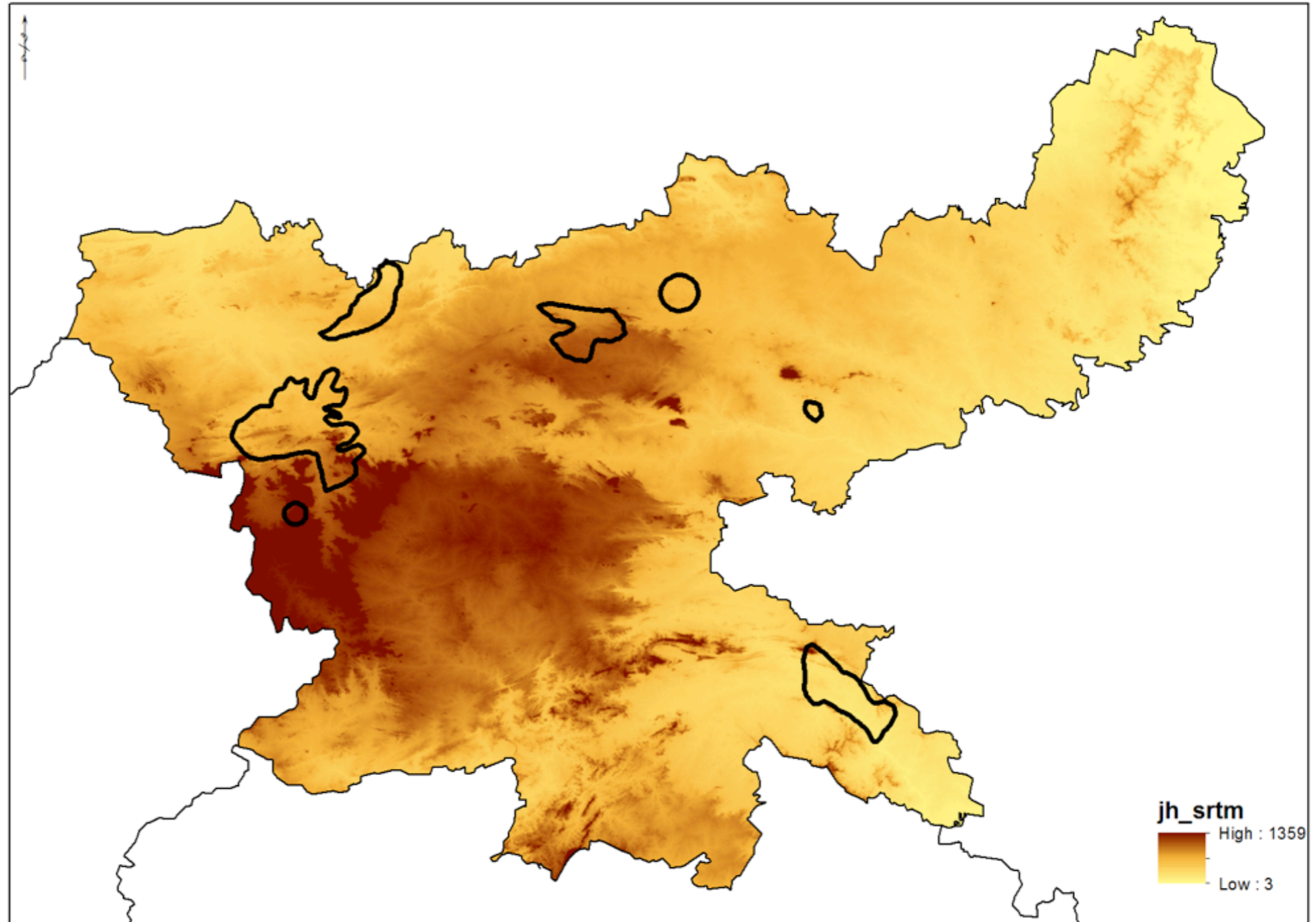
Shuttle Radar Topography Mission

Landsat

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WorldClim

GADM



Jharkand: Corridor Mapping Description

SRTM_Heights

Free Spatial Data

Shuttle Radar Topography Mission

Landsat

SRTM

Free Digital Elevation Model

WorldClim

GADM

<http://srtm.csi.cgiar.org/>

Many applications

Free Spatial Data

Shuttle Radar Topography Mission

Landsat

Slope

SRTM

Hydrology

WorldClim

Contours

GADM

Aspect

Line of Sight

Free Spatial Data

Shuttle Radar Topography Mission

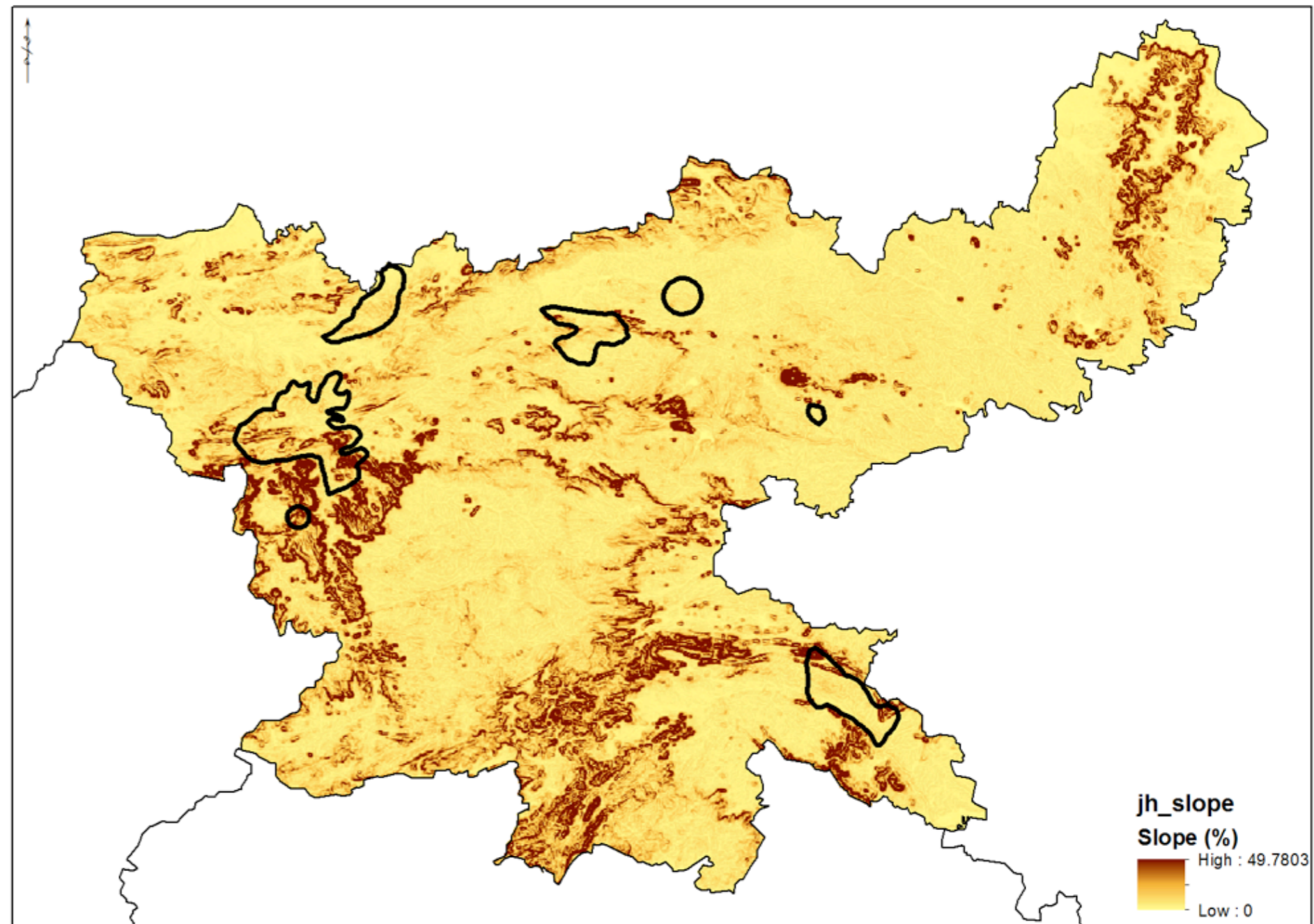
Landsat

Slope

SRTM

WorldClim

GADM



Jharkand: Corridor Mapping Description

SRTM_Slope

Free Spatial Data

Landsat

SRTM

WorldClim

GADM

Climate Models

Free Spatial Data

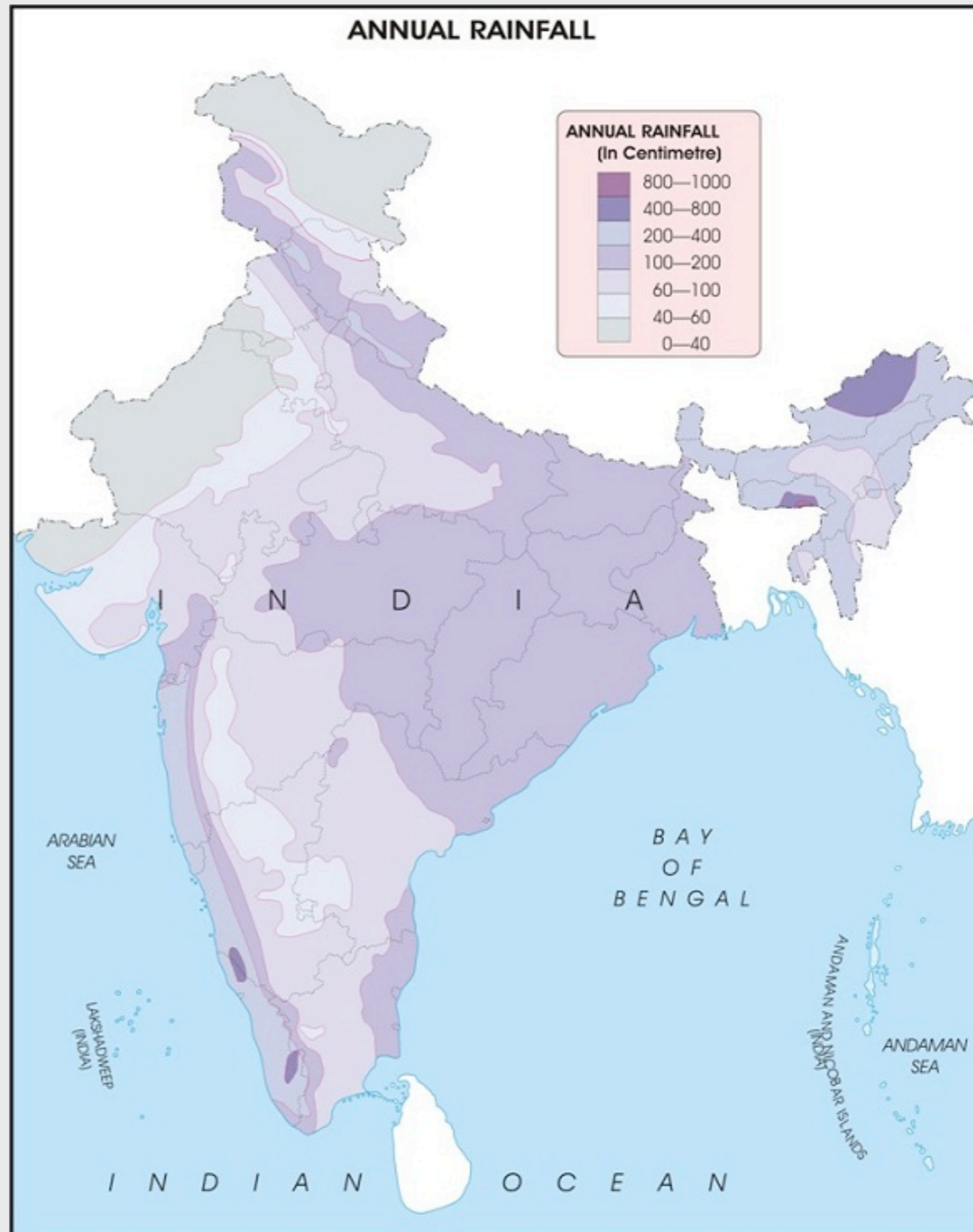
Climate Models

Landsat

SRTM

WorldClim

GADM



Free Spatial Data

Landsat

SRTM

WorldClim

GADM

Climate Models

<http://www.worldclim.org/>

Interpolation of average **monthly** climate data from weather stations

Mean, minimum and maximum temperature

Total precipitation

Free Spatial Data

Landsat

SRTM

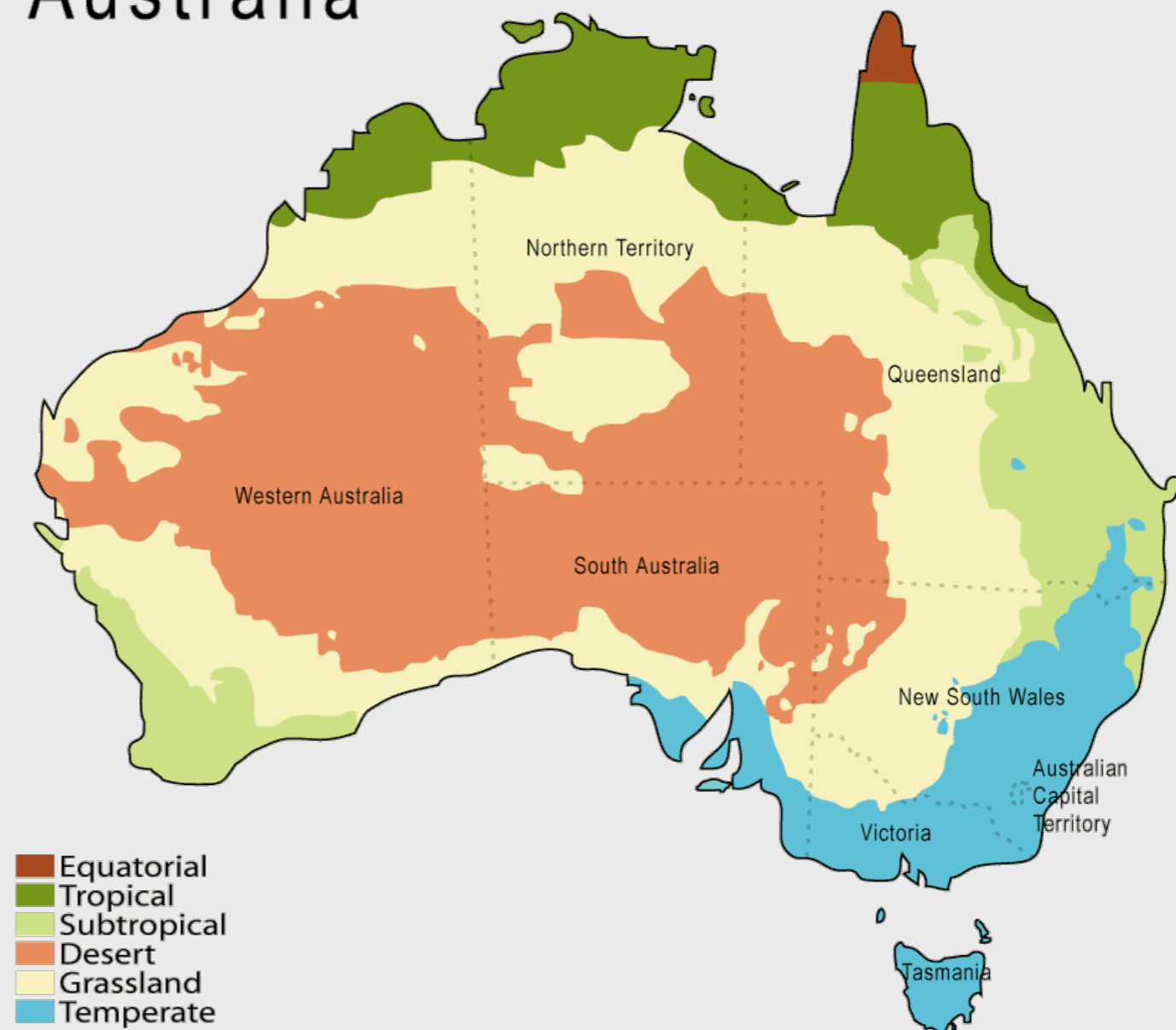
WorldClim

GADM

Climate Models

Climate Zones

Australia



Free Spatial Data

Landsat

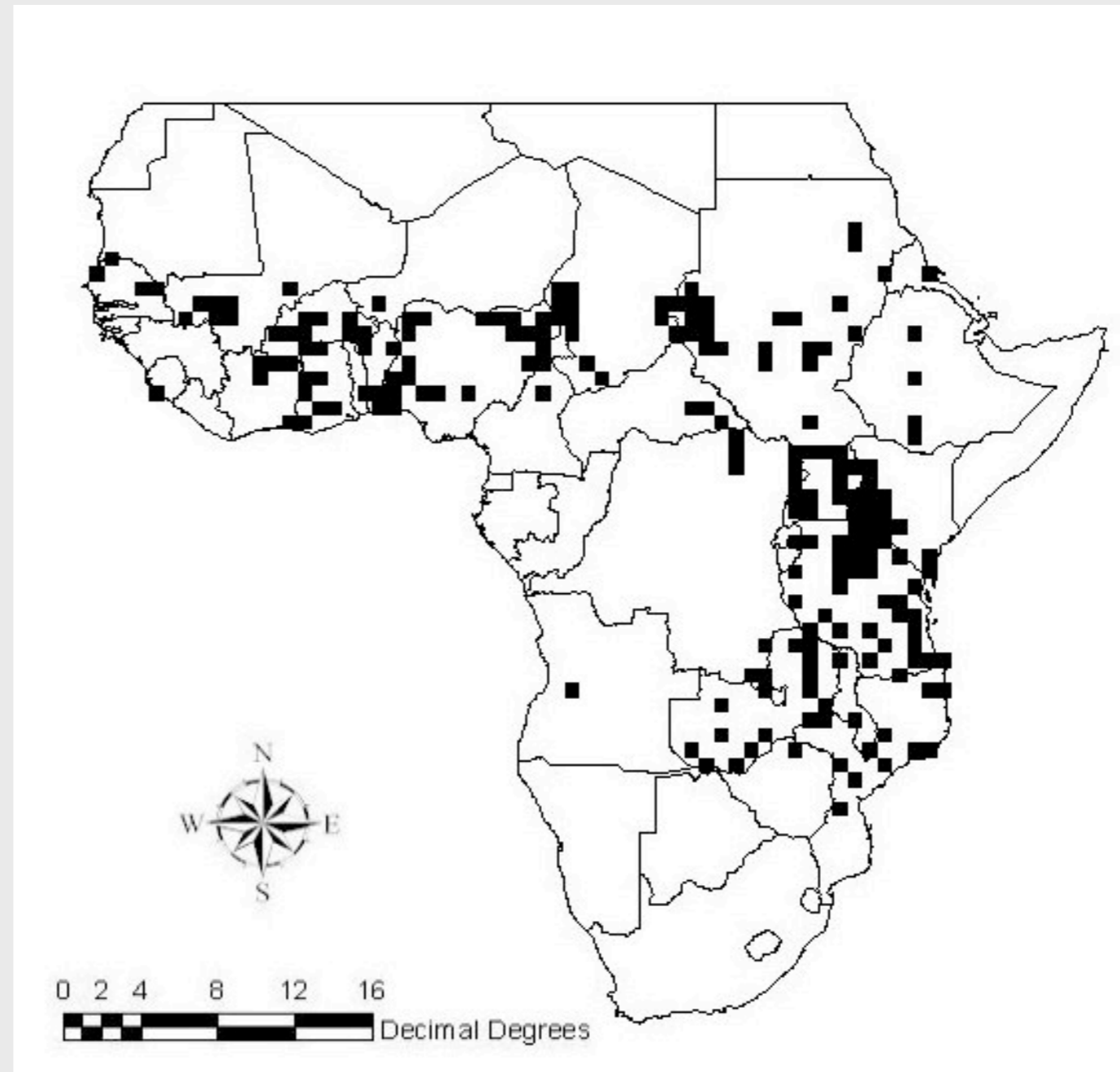
SRTM

WorldClim

GADM

Climate Models

Species Envelopes



Present day African *Acacia sieberiana* habitat

Free Spatial Data

Landsat

SRTM

WorldClim

GADM

Global Administrative Areas

Free Spatial Data

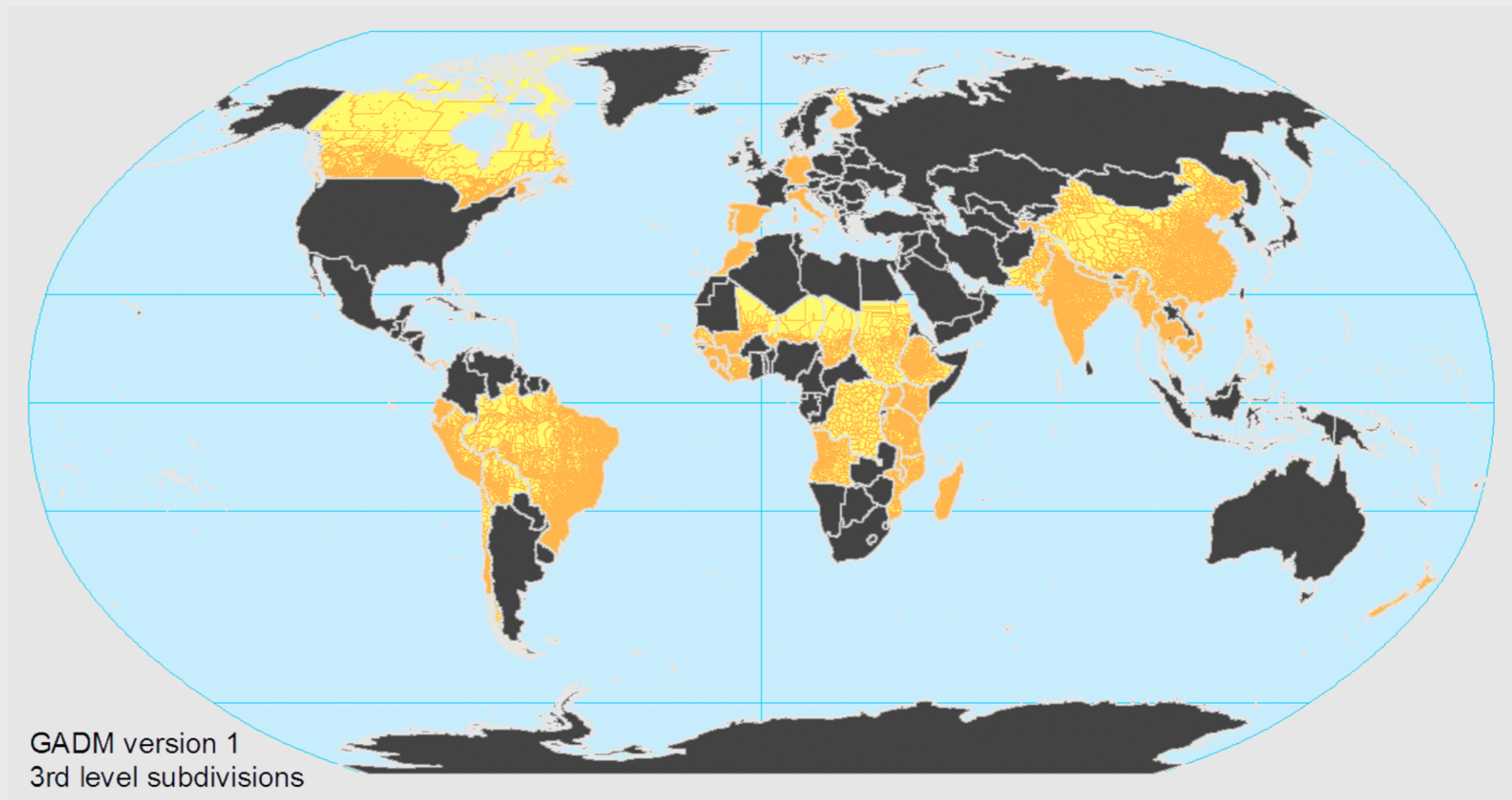
Global Administrative Areas

Landsat

SRTM

WorldClim

GADM



Free Spatial Data

Global Administrative Areas

Landsat

SRTM

WorldClim

GADM

“Boundaries without Limits”

www.gadm.org

“This is a never ending project”

GPS

Global Positioning System

Restrictions

Crowdsourcing



- Distributed problem-solving and production model.
- Coined by Jeff Howe in a June 2006 Wired magazine article "The Rise of Crowdsourcing"
- Oxford English Dictionary.

"Wisdom of the crowd"

WE CROWDSOURCE THE DESIGN
PROCESS, ALLOWING THOSE WITH
THE BEST DESIGNS TO CONNECT—
VIA ALREADY-IN-PLACE SOCIAL
NETWORKING INFRASTRUCTURE—
WITH INTERESTED MANUFACTURERS,
DISTRIBUTORS, AND MARKETERS.



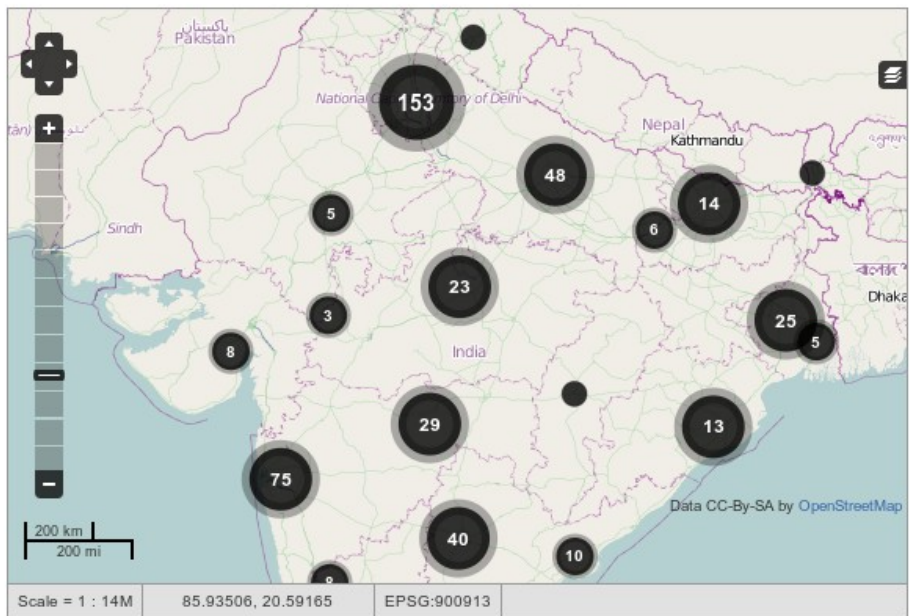
NOBODY CAUGHT ON THAT OUR BUSINESS
PLAN DIDN'T INVOLVE US IN ANY WAY—
IT WAS JUST A DESCRIPTION OF OTHER
PEOPLE MAKING AND SELLING PRODUCTS.

Mobile

We are winners under m-News & Journalism Category - mBillionth Awards 2012. Check! Blog! Looking for data? Visit the Data repository to download. Read about PowerCuts.in - in the media and on BBC TV[video].

FILTERS → **REPORTS** NEWS PICTURES VIDEO ALL

FULL SCREEN MAP



↓ CATEGORY FILTER [HIDE]

- ALL CATEGORIES**
- UNPLANNED
- PLANNED
- VOLTAGE
- GOOD NEWS
- COMMENTS
- DAILY
- THEFT
- AUDIO REPORTS
- VIDEO REPORTS

Social Media

barometer

Visualizing Sentiment on Twitter – by memetic labs & nth loop



Tweet 35

click on the various brand logos to see the statistics for the brands.
click to dismiss this popup



7 positive buzz today

hover over the question marks to learn more about the chart.
click to dismiss this popup



negative buzz today



Web/paper based forms

Interviews

Online Petitions/Campaigns

1 Start a Petition



2 Mobilise Support



3 Win Change



TIPS & GUIDES

START A PETITION

MORE VICTORIES

Rationalise Auto Rickshaw fares in Chennai

#ChennaiAuto

 SIGN THIS PETITIONFirst Name Last Name Email Address City

Country

India

[Inside U.S.](#)Post Code Why are you signing? [Add a reason \(optional\)](#)**SIGN**

Signatures

9,365 out of 10,000

Petitioning

Transport Commissioner, Govt. of Tamil Nadu
(+ 2 others)

Created By

Pahalathan Karunakaran

Chennai, India

[About this Petition](#)[Petition Letter](#)[Petition Updates](#)

Auto rickshaw drivers in Chennai are fleecing passengers at rates close to Rs.25 per km. The auto-rickshaw fares haven't been revised in the last five years, even though fuel prices have been hiked frequently. This has resulted in considerable inconvenience for commuters who depend on autorickshaws for their transport needs as well to the auto rickshaw drivers.



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We're a non-profit tech company that

changes the way information flows in the world.

CAIRO, Egypt

[Check out Ushahidi 2.5: Cairo >](#)



What is the Ushahidi Platform



Manage the River of Information



Crowdsourcing In "the cloud"



Crisis Response

Making critical information more accessible in times of disaster

When disaster strikes, people turn to the internet for information. We help ensure the right information is there in these times of need by building tools to collect and share emergency information, and by supporting first responders in using technology to help improve and save lives.

Photo courtesy of: Bill & Melinda Gates Foundation*



Humanitarian OpenStreetMap Team

Haiti

Sahana