## **Update on Current Activities**

Andrew Azman with

Elizabeth Lee, Justin Lessler and many others

GTFCC OCV Working Group :: 5 Dec 2018





1 Mapping Cholera

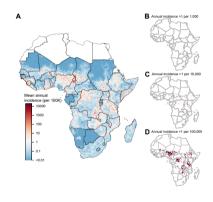
2 Case Studies

3 New Tools for Identifying Priority Areas and Tracking Transmission

Mapping Cholera 2/1

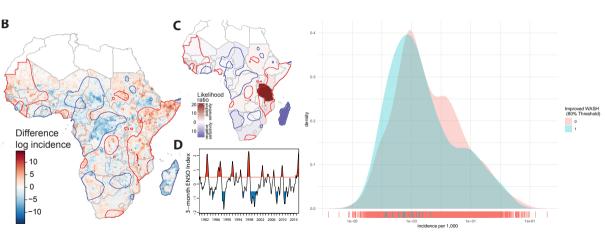
# Mapping Cholera

- Updated estimates of global cholera
- Impact and cost-effectiveness of global OCV investments
- Maps of seasonality and inter-annual variability of transmission
- Review and summarisation of cholera outbreak characteristics
- New interface for data access, entry and database (in progress)

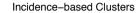


Mapping Cholera 3/1

# Risk Factors for Cholera Incidence: From Weather to WASH



Mapping Cholera 4/1





#### Lineage-based Clusters



Mapping Cholera 5/

# Outline |

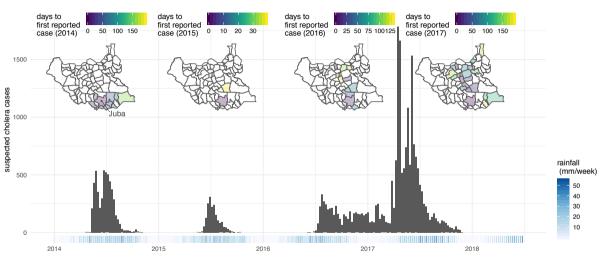
1 Mapping Cholera

2 Case Studies

3 New Tools for Identifying Priority Areas and Tracking Transmission

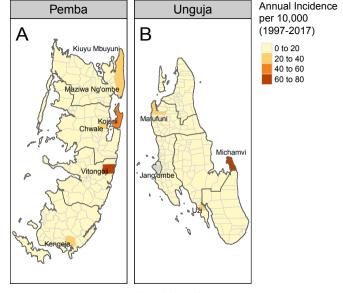
Case Studies 6/1

#### South Sudan



Case Studies 7/1

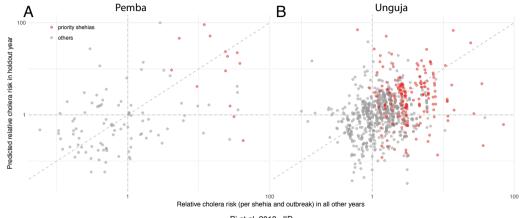
#### Learning from Zanzibar



Bi et al, 2018, JID

Case Studies 8/1

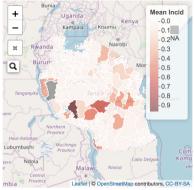
#### Learning from Zanzibar

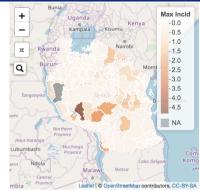


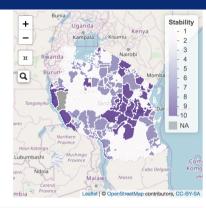
Bi et al, 2018, JID

Case Studies 9/1

## Identifying Priority Areas in Tanzania







Set criteria for identifying priority intervention districts:



#### Define the Stability criterion:

At least one case

Set relative weights for the three criteria under consideration in this prioritization process:

# Mean Annual Incidence: Max. Annual Incidence: Stability of Burden: 0 50 100 50 100 0 50 100 0 100</

Case Studies 10/

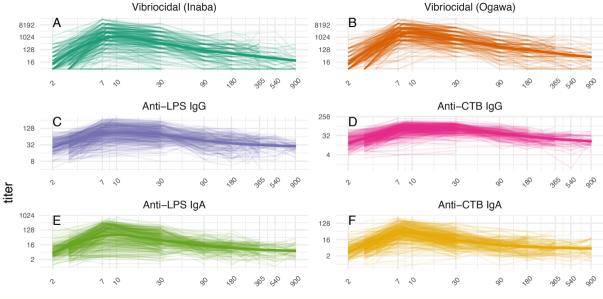
# Outline

- 1 Mapping Cholera
- 2 Case Studies

3 New Tools for Identifying Priority Areas and Tracking Transmission

#### Vibriocidal (Inaba)

Learning from Antibody Kinetics



### Identifying High Transmission Areas in Bangladesh with Seroepidemiology

