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Caribbean Data Challenges

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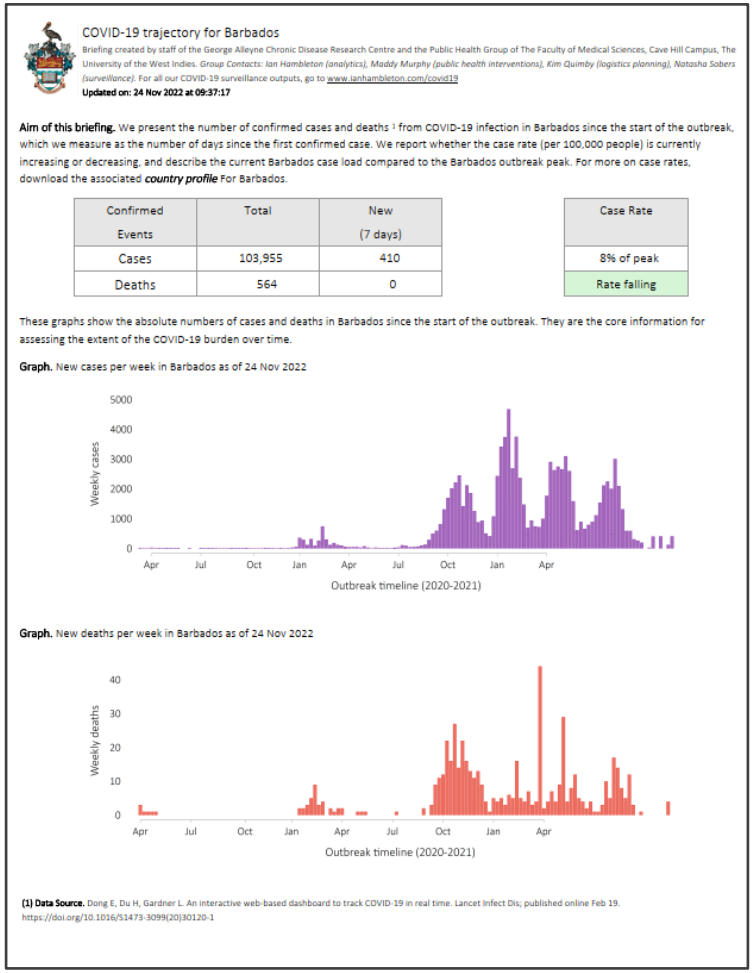
Daily surveillance: Country reports online each morning

20 country briefings: 14 CARICOM and 6 UKOTS



COVID-19 trajectory for Barbados

Briefing created by staff of the George Alleyne Chronic Disease Research Centre and the Public Health Group of The Faculty of Medical Sciences, Cave Hill Campus, The University of the West Indies. *Group Contacts: Ian Hambleton (analytics), Maddy Murphy (public health interventions), Kim Quimby (logistics planning), Natasha Sobers (surveillance).* For all our COVID-19 surveillance outputs, go to www.ianhambleton.com/covid19

Updated on: 24 Nov 2022 at 09:37:17

Aim of this briefing. We present the number of confirmed cases and deaths [1] from COVID-19 infection in Barbados since the start of the outbreak, which we measure as the number of days since the first confirmed case. We report whether the case rate (per 100,000 people) is currently increasing or decreasing, and describe the current Barbados case load compared to the Barbados outbreak peak. For more on case rates, download the associated ***country profile*** For Barbados.

Confirmed Events	Total	New (7 days)
Cases	103,955	410
Deaths	564	0

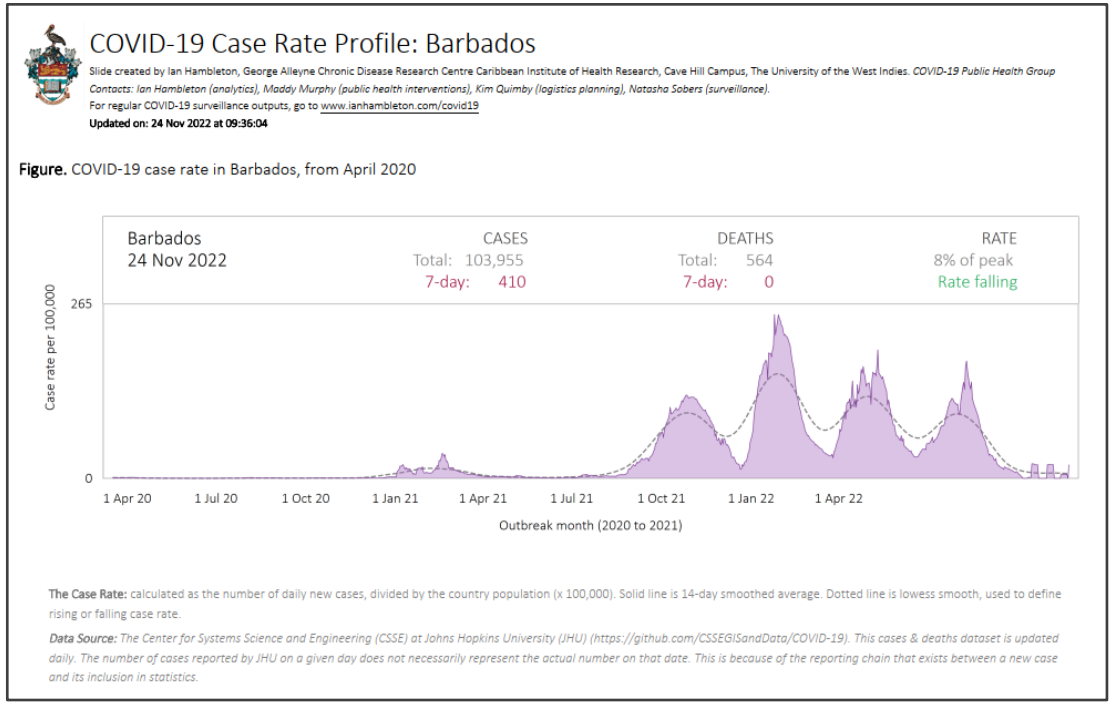
Case Rate
8% of peak
Rate falling

These graphs show the absolute numbers of cases and deaths in Barbados since the start of the outbreak. They are the core information for assessing the extent of the COVID-19 burden over time.

Graph. New cases per week in Barbados as of 24 Nov 2022

Graph. New deaths per week in Barbados as of 24 Nov 2022

(1) Data Source. Dong E, Du H, Gardner L. An interactive web-based dashboard to track COVID-19 in real time. Lancet Infect Dis; published online Feb 19. https://doi.org/10.1016/S1473-3099(20)30120-1



COVID-19 Case Rate Profile: Barbados

Slide created by Ian Hambleton, George Alleyne Chronic Disease Research Centre Caribbean Institute of Health Research, Cave Hill Campus, The University of the West Indies. *COVID-19 Public Health Group Contacts: Ian Hambleton (analytics), Maddy Murphy (public health interventions), Kim Quimby (logistics planning), Natasha Sobers (surveillance).*

For regular COVID-19 surveillance outputs, go to www.ianhambleton.com/covid19

Updated on: 24 Nov 2022 at 09:36:04

Figure. COVID-19 case rate in Barbados, from April 2020

The Case Rate: calculated as the number of daily new cases, divided by the country population (x 100,000). Solid line is 14-day smoothed average. Dotted line is lowess smooth, used to define rising or falling case rate.

Data Source: The Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU) (https://github.com/CSSEGISandData/COVID-19). This cases & deaths dataset is updated daily. The number of cases reported by JHU on a given day does not necessarily represent the actual number on that date. This is because of the reporting chain that exists between a new case and its inclusion in statistics.

bit.ly/uwi-covid19

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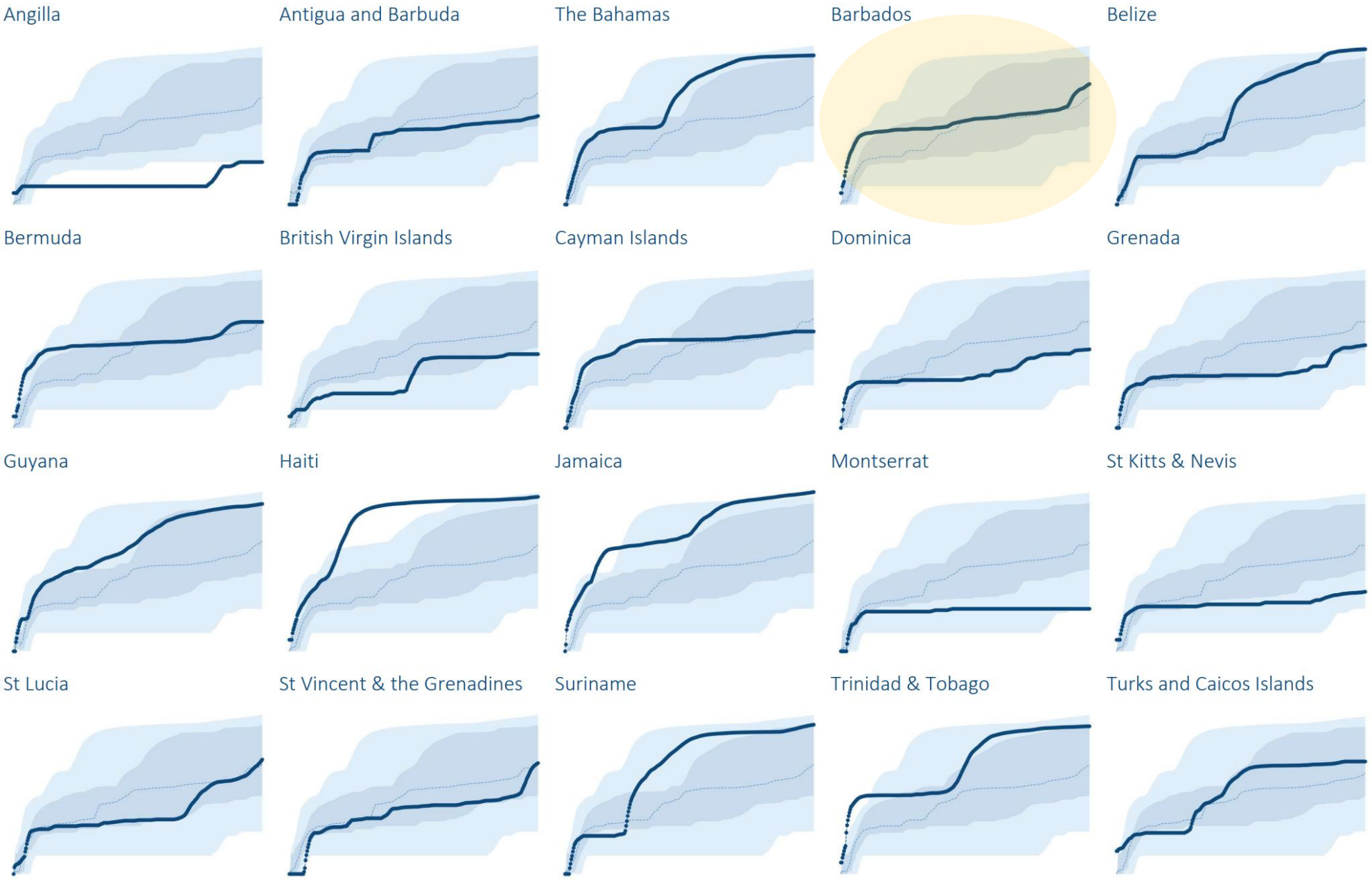
Daily surveillance: outbreak growth



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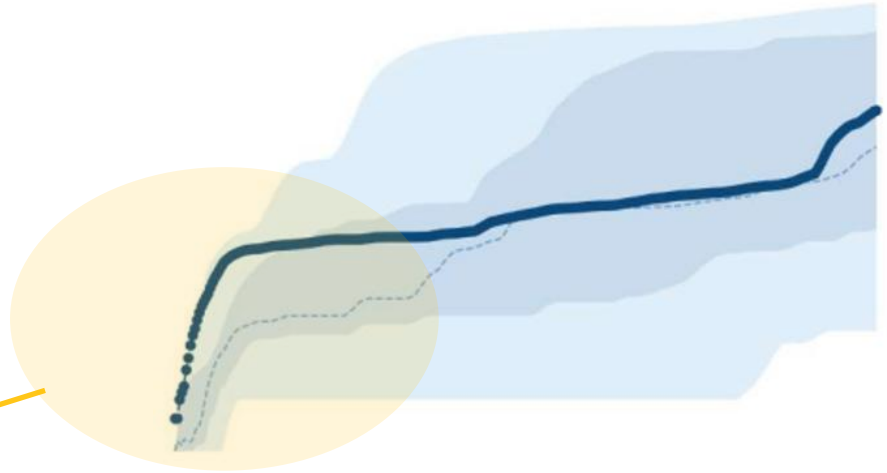
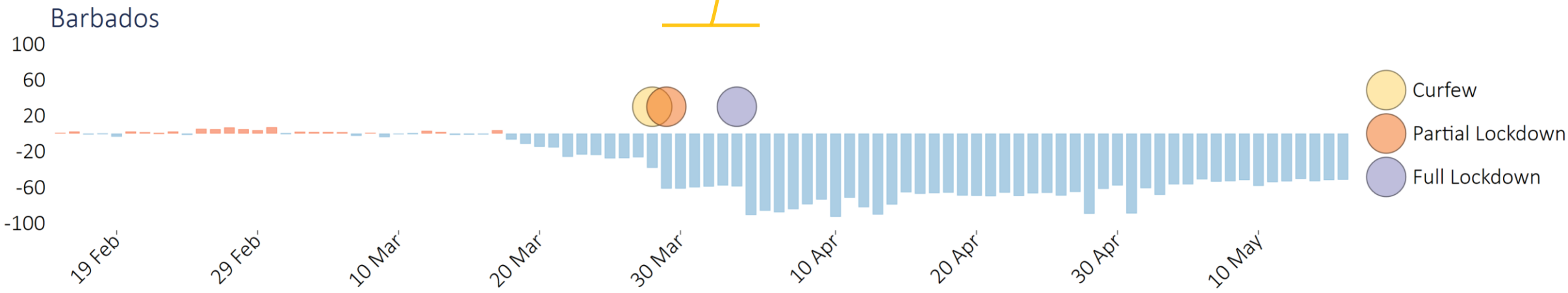
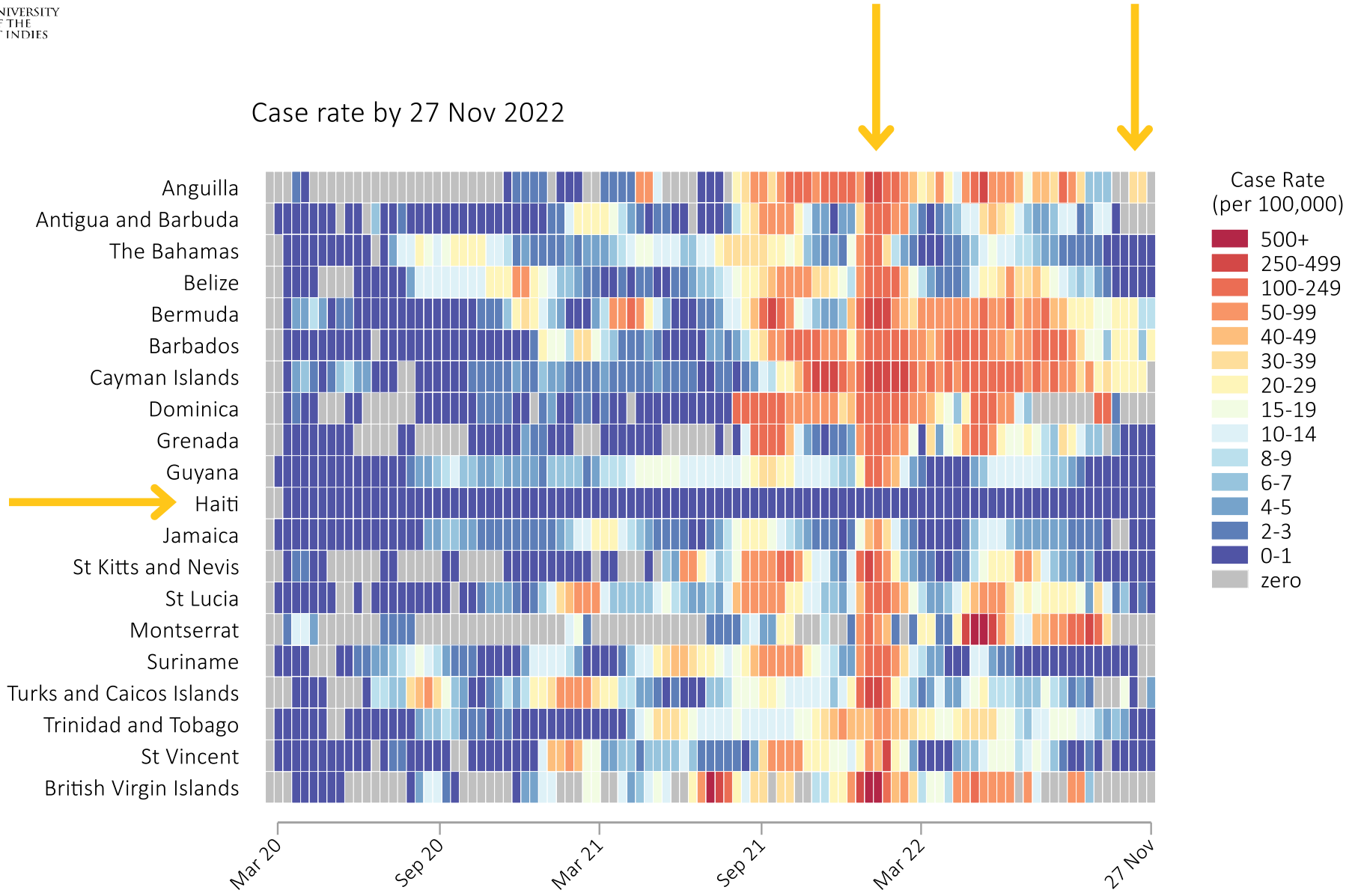
Daily surveillance: government response





Daily surveillance: Data availability



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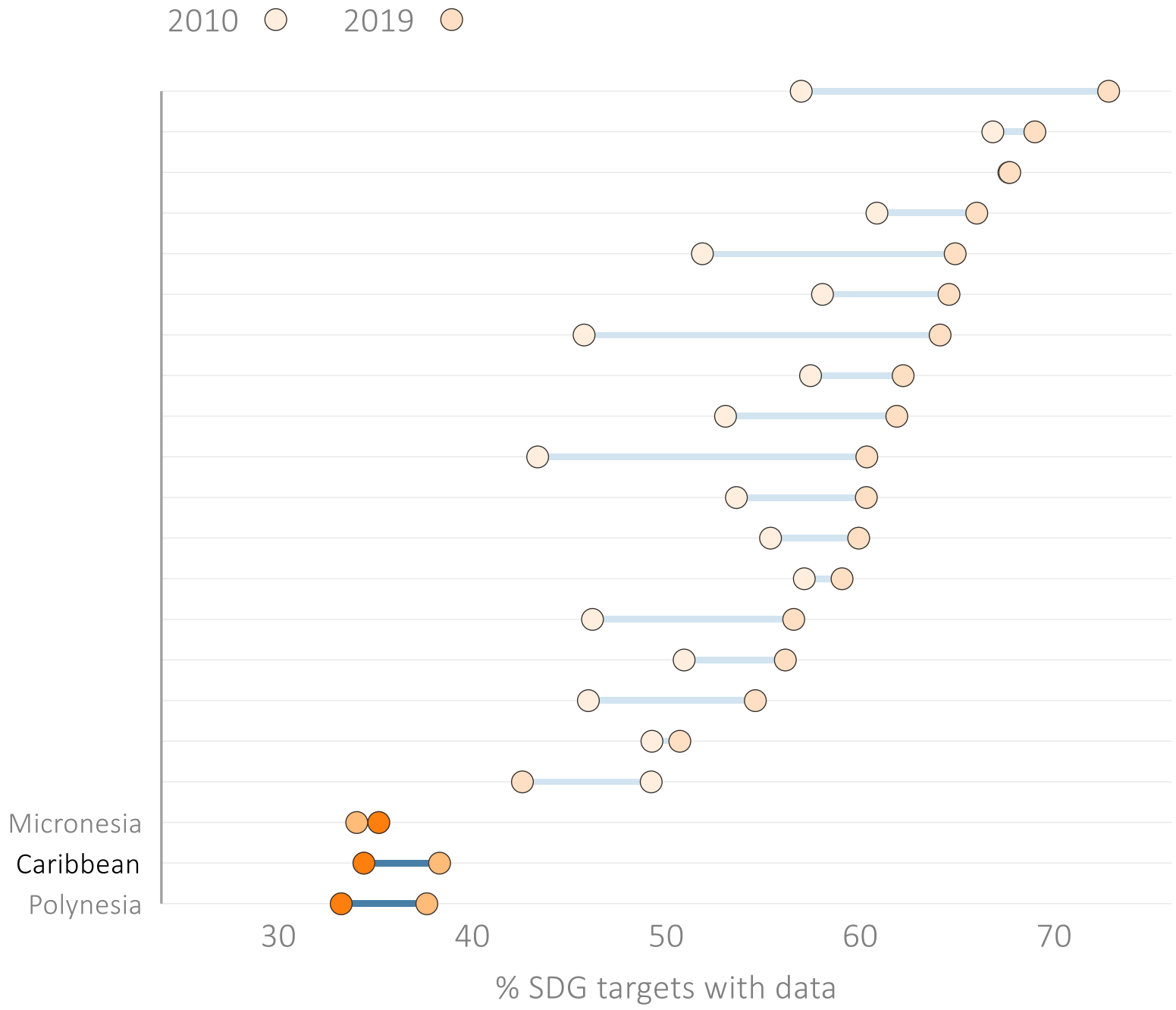
Data availability and accessibility in the Caribbean is limited

World Bank (2019)
Data for SDG Reporting.



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Daily surveillance: Data challenges

Overall	**Need Standards** for data
	Need Standards for reporting
Data Permanence	**Need** permanent archiving
	Need record of changes
Data Elements	**Need** accessible file formats
	Need data coding standards
Epi Challenges	**Clearly** describe missing data / data lags
	Need describe case definition

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Data Challenges: The Caribbean

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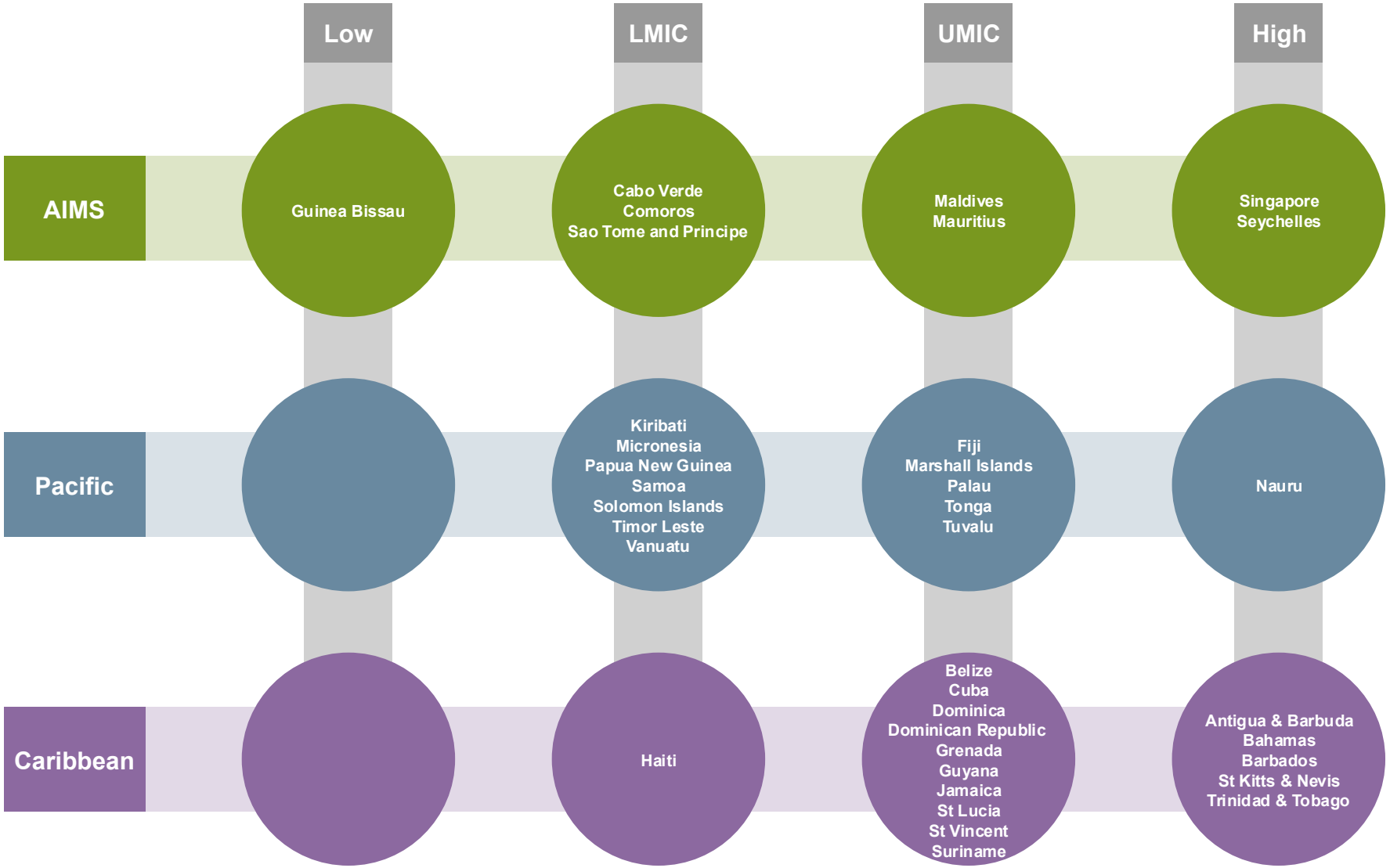
Data Challenges: The Caribbean

Data Challenges: Classifying SIDS



- In practice, WB income groups still dominate ODA allocations.
- Caribbean islands clustered in UMIC + High.
- Absolute resources despite High income status
- E.g. See the following quick analysis...

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Data Challenges: ODA to SIDS

- OECD funding analysis. Aid at a glance… oecd.org/dac/financing-sustainable-development/development-finance-data/aid-at-a-glance.htm
- And… https://read.oecd-ilibrary.org/development/geographical-distribution-of-financial-flows-to-developing-countries-2023_12757fab-en-fr#page1
- Link data to GNI per capita values…
- Caribbean islands clustered in UMIC + High.
- E.g. See the following quick analysis…

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Data Challenges: What is needed

- Need for support infrastructures
- Solutions must be “owned”, financed and measured. See Report on this…
- Need for centralization
- But not too much centralization… 2017

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Data Challenges: Extreme weather events

- 2017-2019 hurricane seasons: Irma, Maria, Dorian
- 2021 Mount Soufriere. Countries affected….
- Images. Lasting effects.
- Existential threat
- Start to see why data issues regularly take a back seat.

Centre of Gravity

- Easy for me to talk about external support
- What formats might work.
- We all shout about sustainability in our grant applications. While at the same time we know we're going for 2, 3, 4 years of funding and we won't follow-up on sustainability thereafter.
- The sustainability model isn't broken. Because its never been built.

- How do we create a meaningful long-lasting centre-of-gravity with short term, mostly unconnected funding cycles.

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CaribData

An ecosystem for Caribbean data-driven resilience

REGIONAL PUBLIC GOODS

Integration and Trade Sector

IDB

- Infrastructure
- Training & Guidelines
- Analytics & Communication
- Collaborative Working

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To enable & champion Caribbean data sharing / re-use

We aim to do this by

Building Infrastructure		Online software • Data Entry • Data Sharing
Developing training and guidelines		Workshops • Online learning • Longer-term mentoring
Analytics & Communication		Analytics for Caribbean evidence • Data stories • Datathon
Establishing networks for collaborative working		Conferencing and workshops. Cross-sector collaborations.

IDB

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Regional partners

The UWI
IDB
PAHO
CDEMA

Country partners

National Statistical Offices
Ministries of Health & Env.
NGOs / Civil Society

- A network to enable Caribbean data re-use
- Focus on sustainability
- Complement other regional data initiatives
- Support country partners according to their level of data development

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CaribData

Developing an Ecosystem for Caribbean Data Sharing

Why is this needed?

The global data and analytics environment is evolving rapidly • Data handling in this fast-moving field is increasingly complex • Data without best-practice data handling is regularly unusable

A vital public good for the Caribbean

Data availability and accessibility in the Caribbean is limited • This public good will encourage data sovereignty for the Caribbean Small Island Developing States

What Are We Proposing?

Infrastructure

Online software for data planning, data collection, data sharing.

REDCap

DataVerse

DMP Online

Training

Data-handling courses, online best-practice guidelines, public events on data sharing and open data.

Courses & Mentoring

Guidelines

Workshops & Conference

Analytics

Generating new knowledge from secondary data.

Data Re-Use

Data Stories

Open-Access Analytics

Collaboration

Establishing networks of data stakeholders to support collaborative working

Networks

University, Government & Industry

Multi-Disciplinary

How Can this Help the Caribbean?

Enable and champion data sharing and data re-use • Work with and support country partners • Complement existing regional data initiatives • Foster University, Government and Industry data collaboratives • Identify cross-discipline opportunities • Focus on sustainability

bit.ly/CaribData

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