CAPRISA

CENTRE FOR THE AIDS PROGRAMME OF RESEARCH IN SOUTH AFRICA

COVID-19 UPDATES

6 April 2022

science & innovation
Department: Science and Innovation
REPUBLIC OF SOUTH AFRICA

CAPRISA hosts a DSI-NRF Centre of Excellence in HIV Prevention

NRF National Research Foundation

UNAIDS
CAPRISA is the UNAIDS Collaborating Centre for HIV Research and Policy

GVN GLOBAL VIRUS NETWORK

saMRC advancing life

CAPRISA hosts a MRC HIV-TB Pathogenesis and Treatment Research Unit

CAPRISA hosts a DoH-MRC Special Initiative for HIV Prevention Technology

health
Department: Health
REPUBLIC OF SOUTH AFRICA

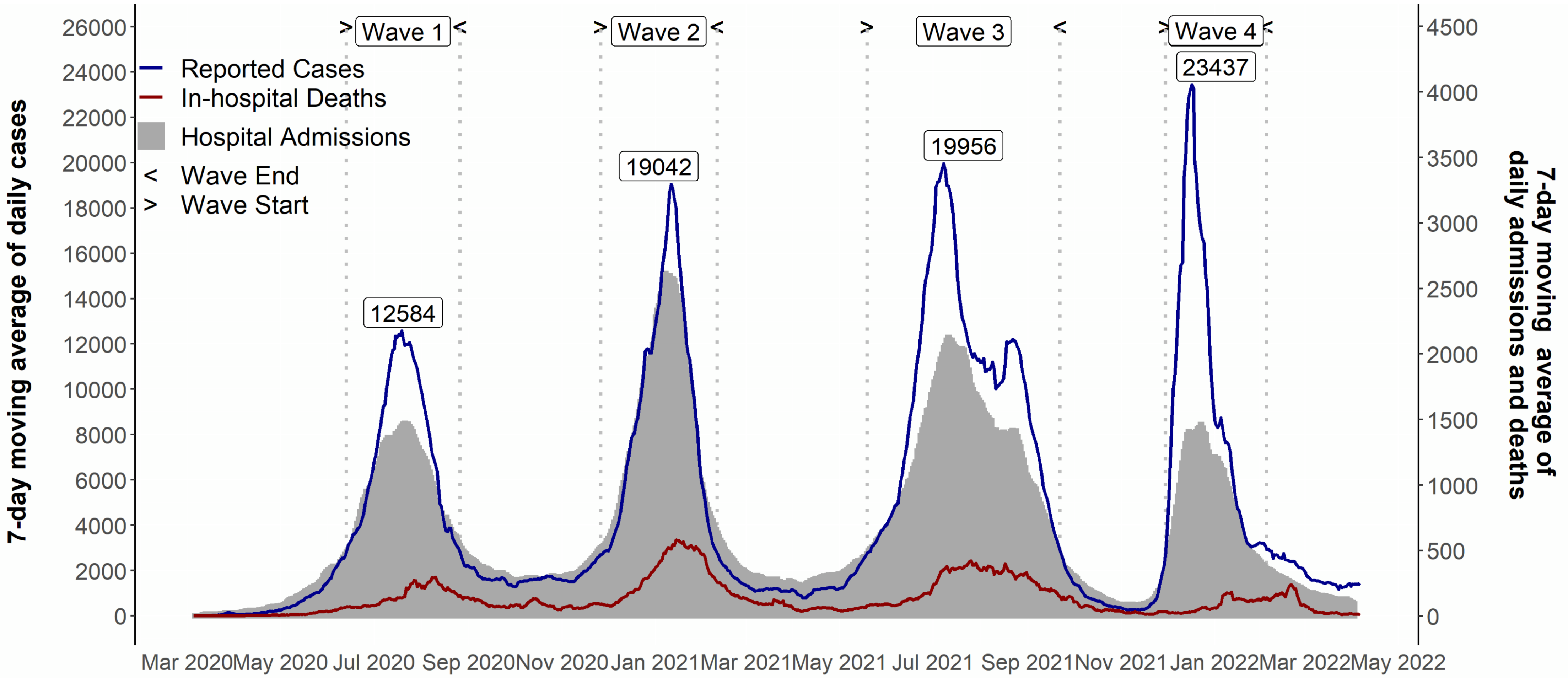
COLUMBIA UNIVERSITY

MAILMAN SCHOOL of PUBLIC HEALTH

UNIVERSITY OF KWAZULU-NATAL
INYUVESI YAKWAZULU-NATALI

Covid-19 in South Africa

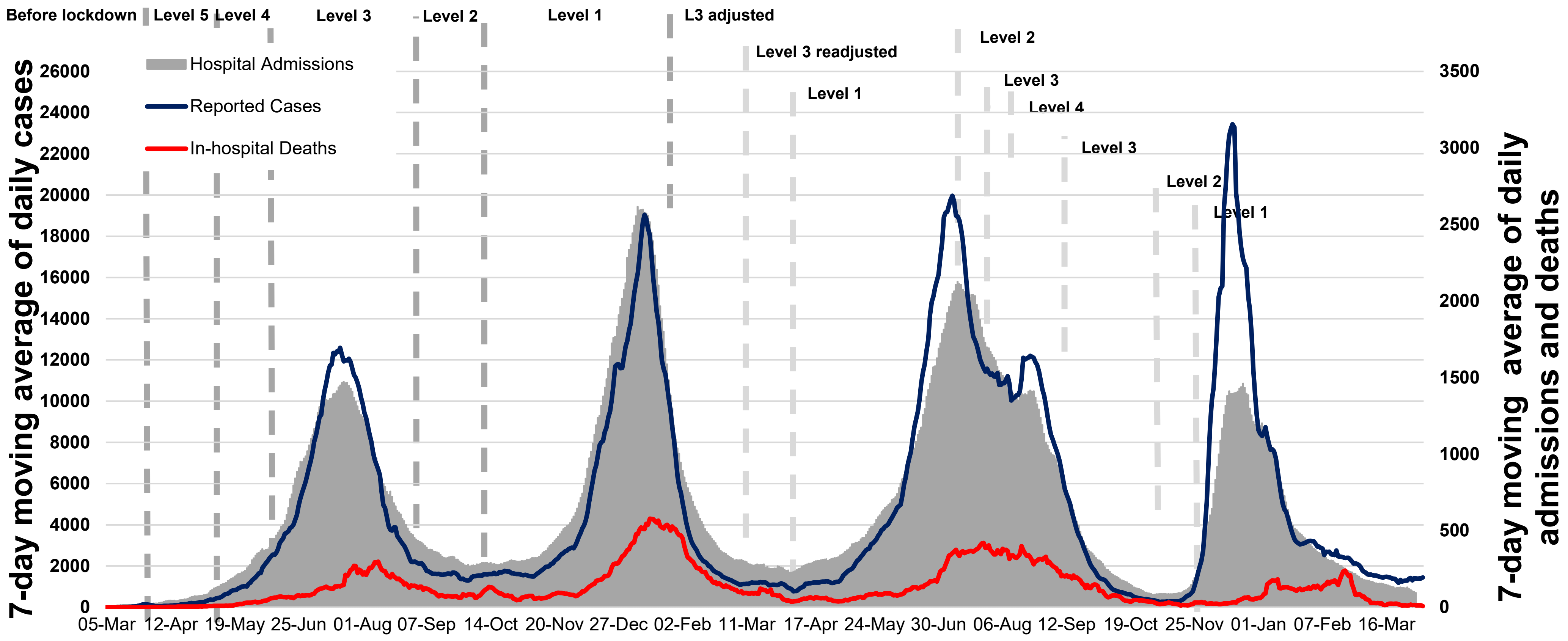
up to – 6 April 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

Covid-19 in South Africa

7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 6 April 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

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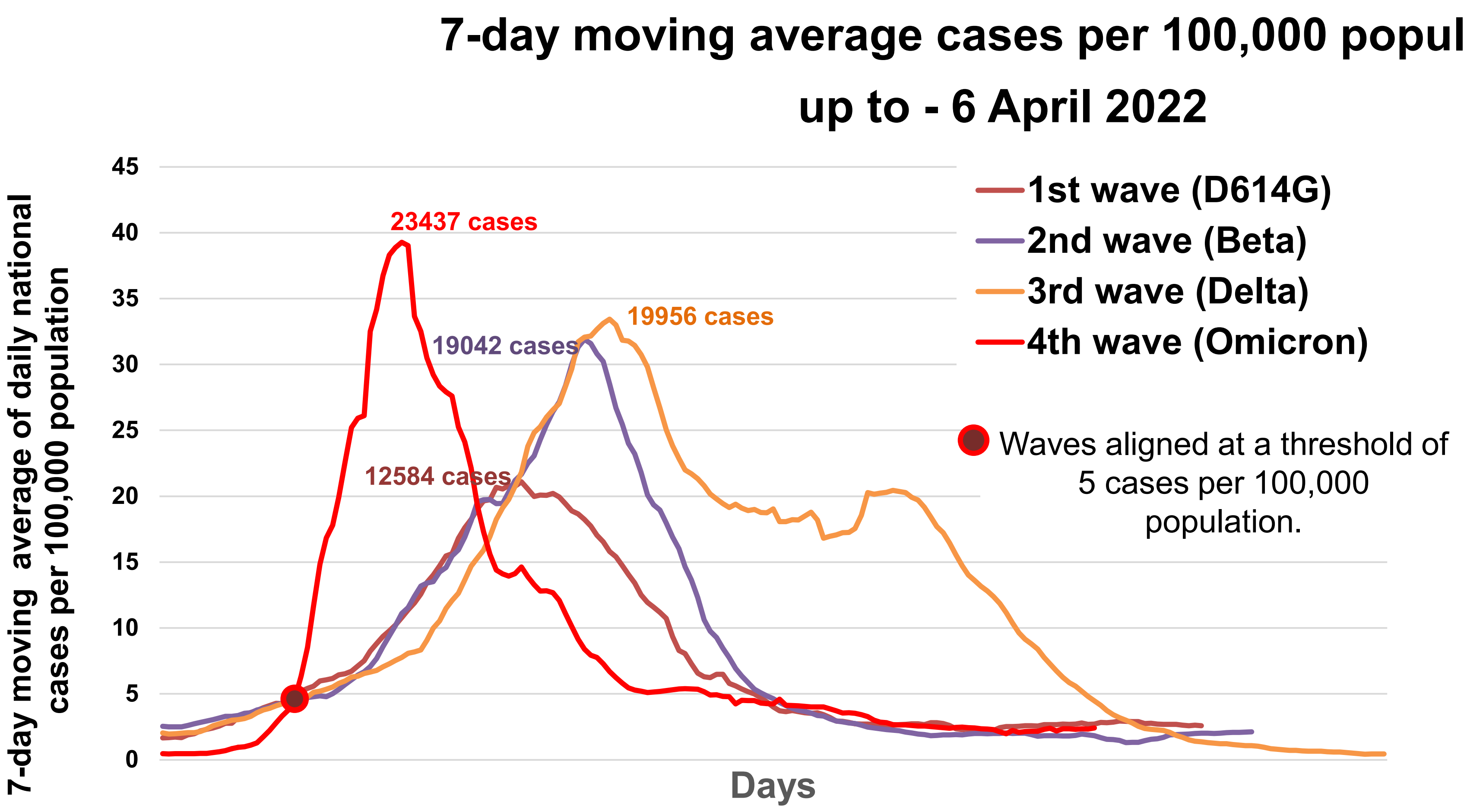
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: South Africa



Data source: Department of Health; Analysis: Marothi LETSOALO; Ande MCHUNU

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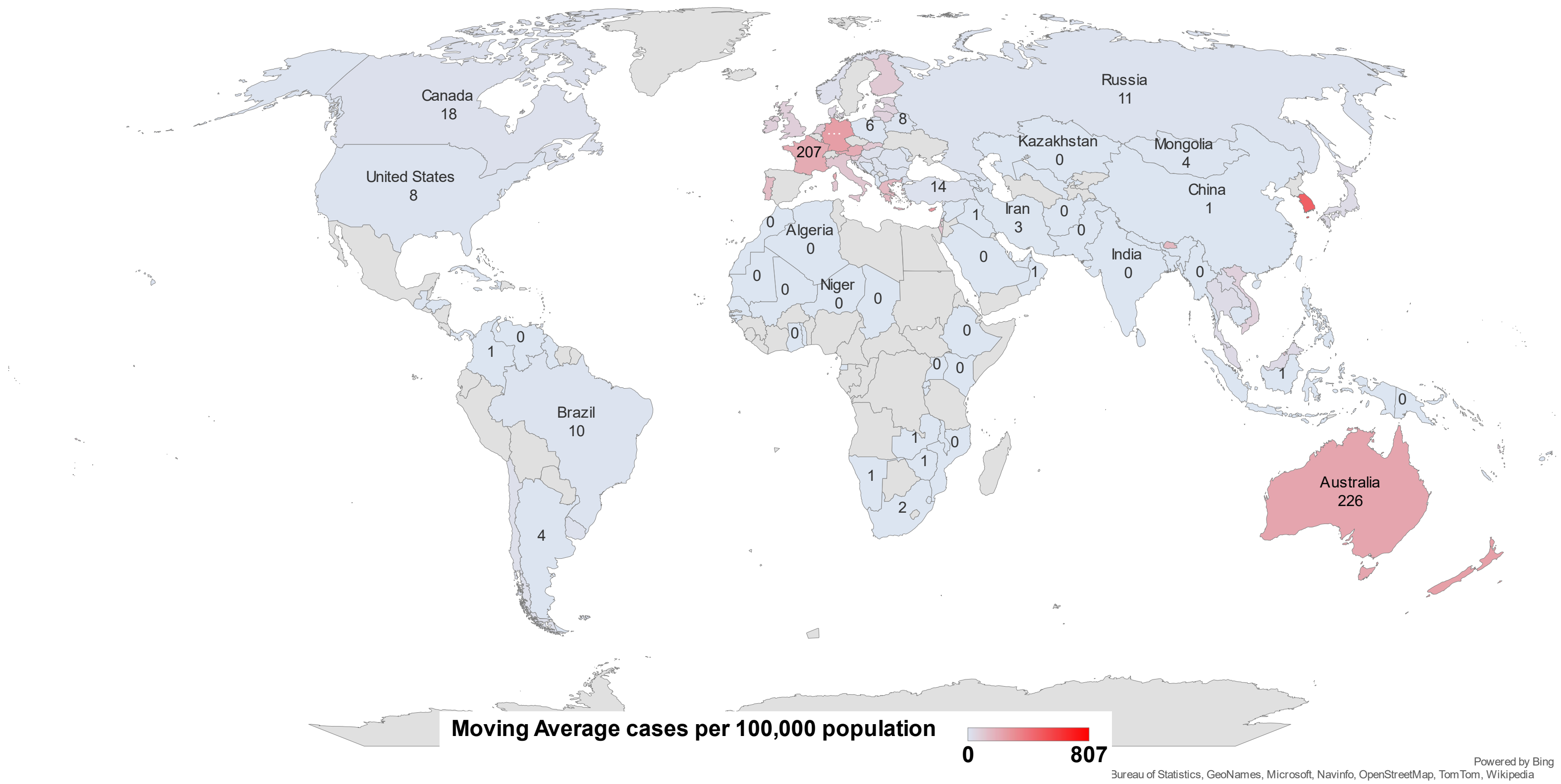
Global Covid-19 epidemic

7-day moving average cases per 100,000 population

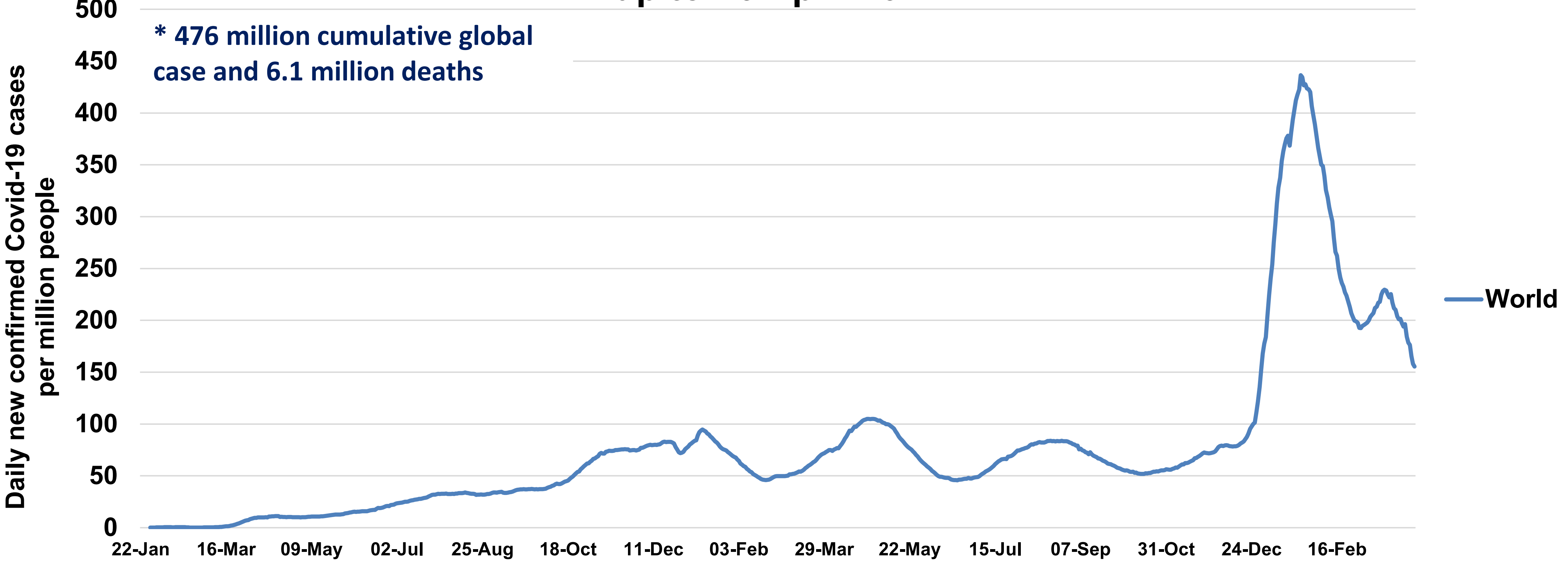
up to - 6 April 2022



Source: *Our World in Data*

Covid-19 in Africa
Omicron variant drives 4th wave

up to - 6 April 2022



Data Source: *Our World in Data; NICD*

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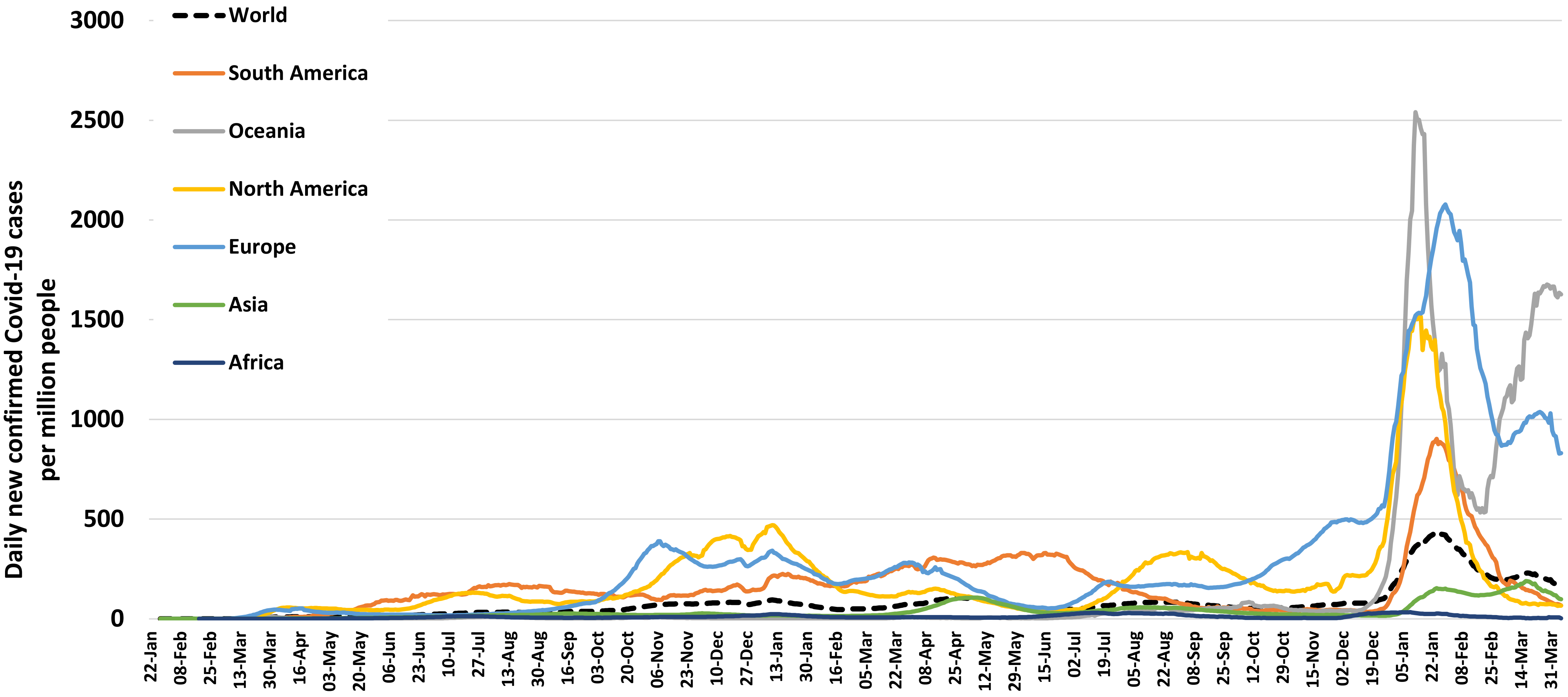
Omicron wave higher across all continents

up to - 6 April 2022



Data Source: *Our World in Data; NICD*

Estimated effective reproduction rate (R) of Covid-19 in South Africa

up to - 3 April 2022

Source: *Our World in Data; data explorer; Johns Hopkins University [COVID-19 Dashboard]*

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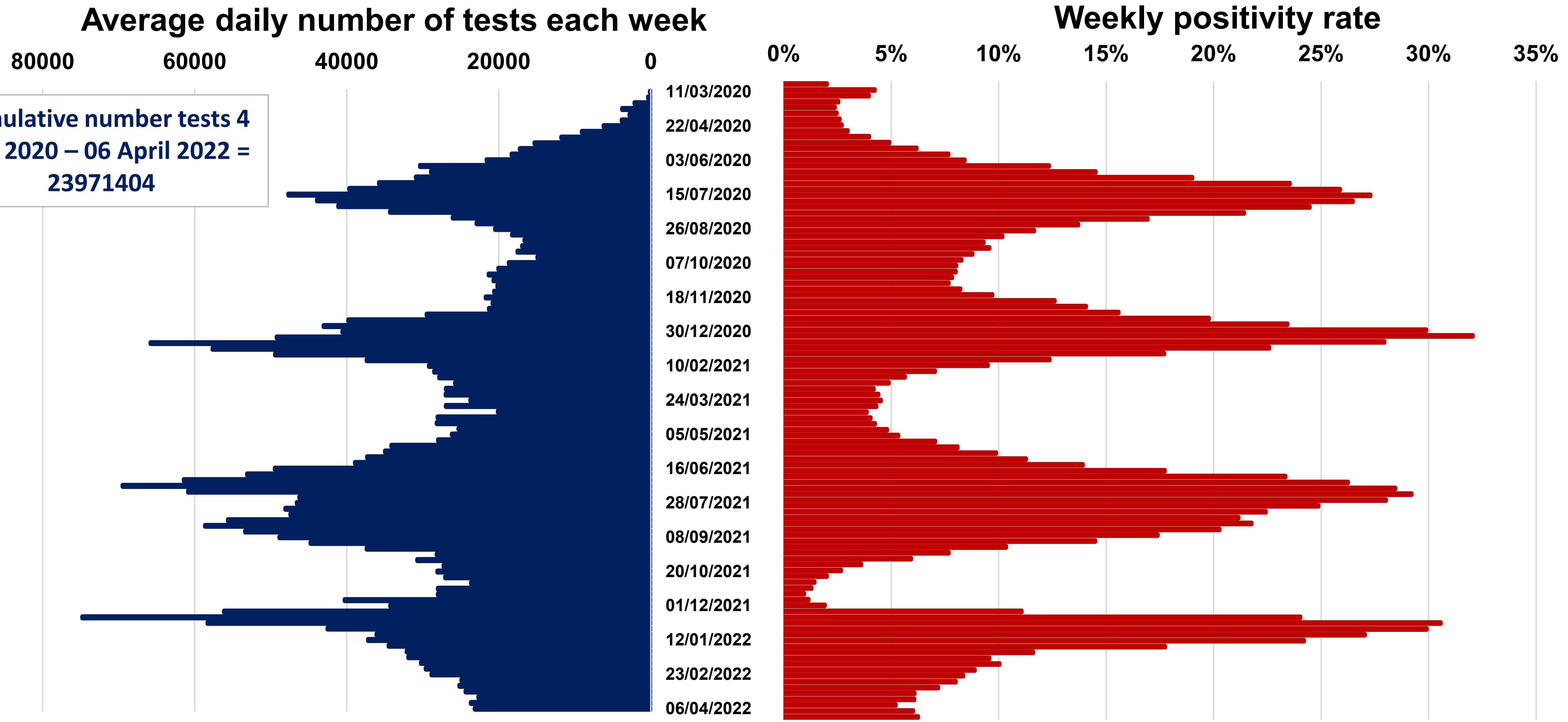
Average daily tests and proportion of positive tests

up to - 6 April 2022

Cumulative number tests 4 Mar 2020 – 06 April 2022 = 23971404



Data source: Department of Health

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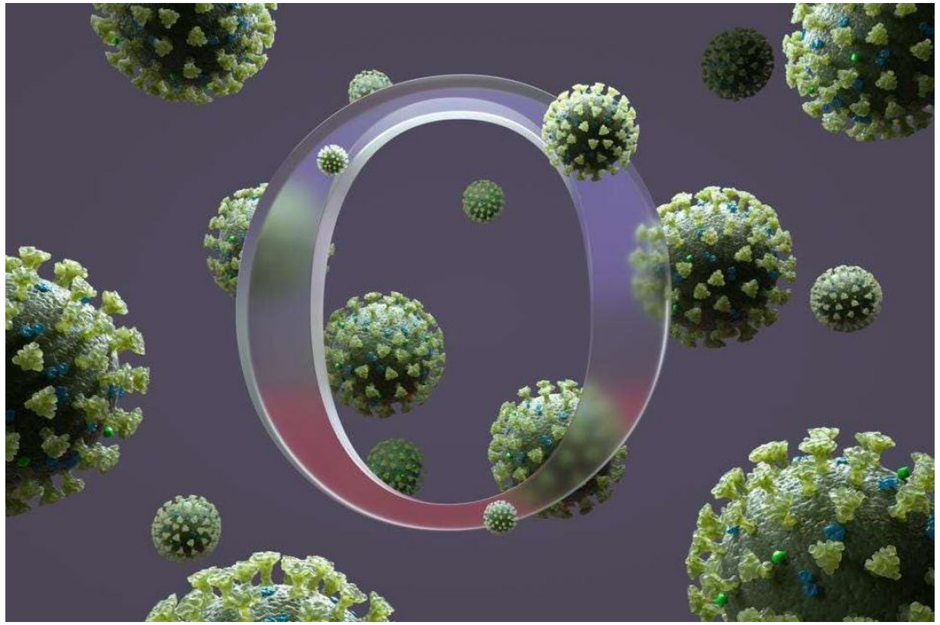
Forbes – Whither the Omicron Family: BA.1, BA.1.1, BA.2, BA.2.H78Y, BA.3?

- This article in Forbes magazine by Bill Hasseltine draws upon data from various studies is part of a series of articles on omicron.

- Amongst others, it asks the question on what to make of the multiple sub-variants and recombinants of omicron?



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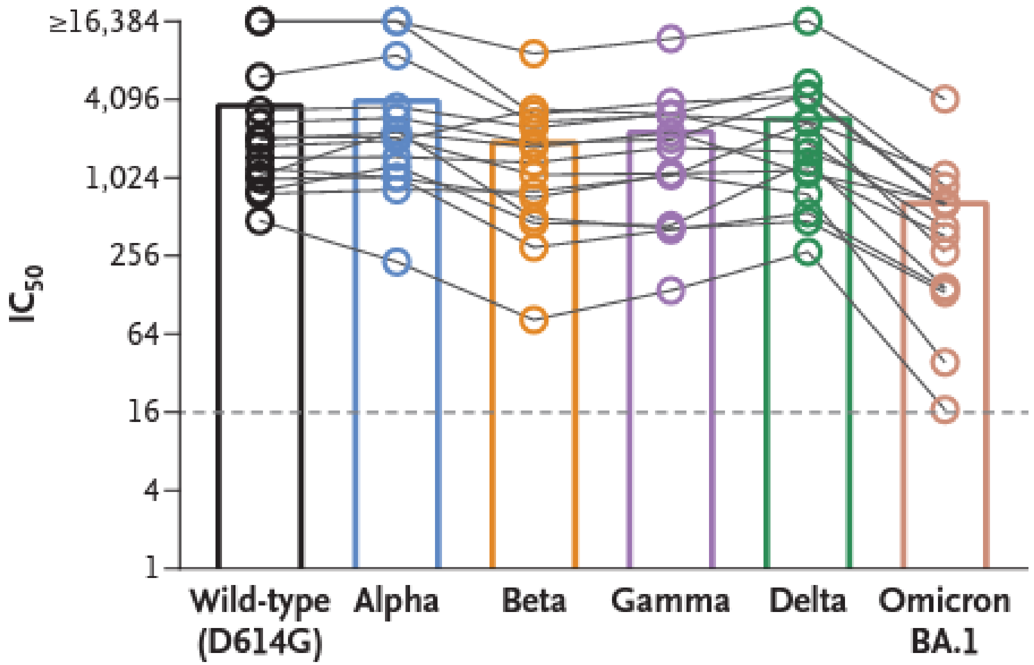
Omicron infection in vaccinated people generates good neutralisation of all variants of concern

The NEW ENGLAND JOURNAL of MEDICINE

Neutralization Profile after Recovery from SARS-CoV-2 Omicron Infection

A. Rössler, L. Knabl, D. von Laer, and J. Kimpel

Neutralization profiles after Omicron infection in vaccinated people without past infection



- **Neutralization profiles** (against wild-type, α, β, γ, δ & omicron BA.1 variants) **in serum 5 - 42 days after infection with omicron**
- **Vaccine-acquired and hybrid immunity → high neutralizing Ab titers against all variants after omicron infection**

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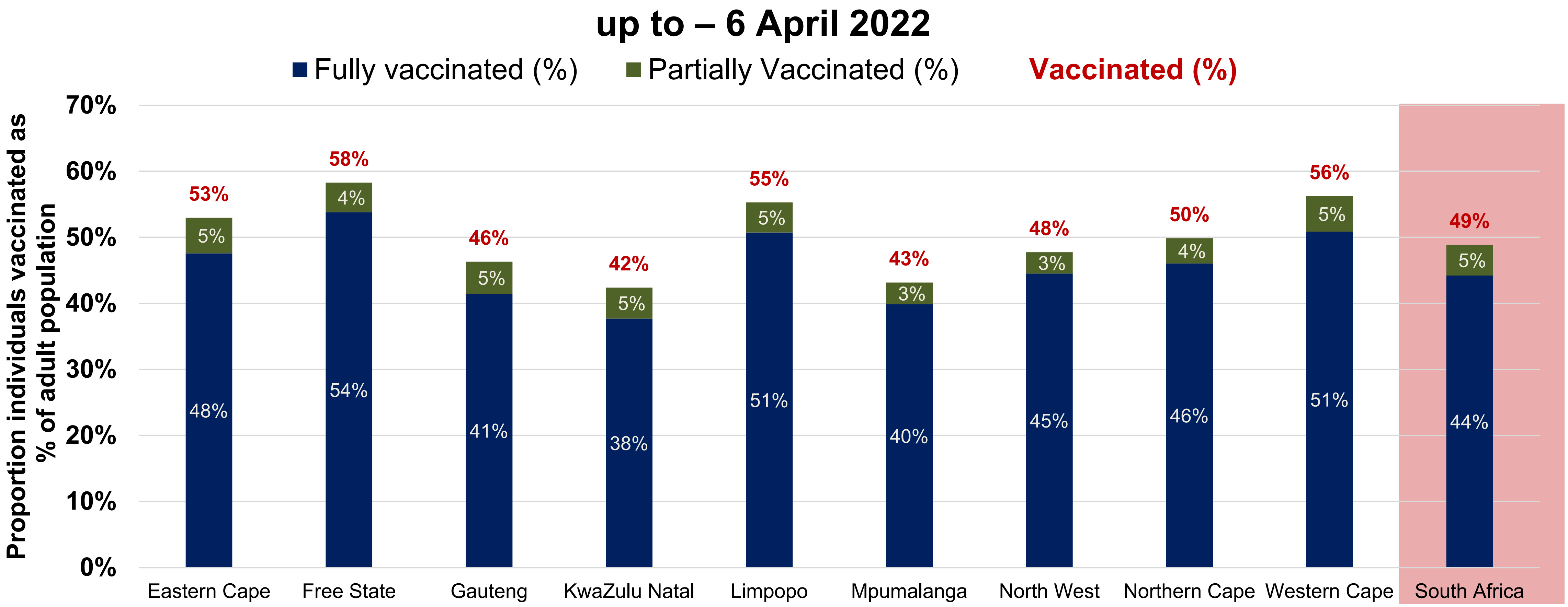
Proportion of individuals vaccinated as % of adult population



Source: *Department of Health. https://sacoronavirus.co.za/latest-vaccine-statistics/*

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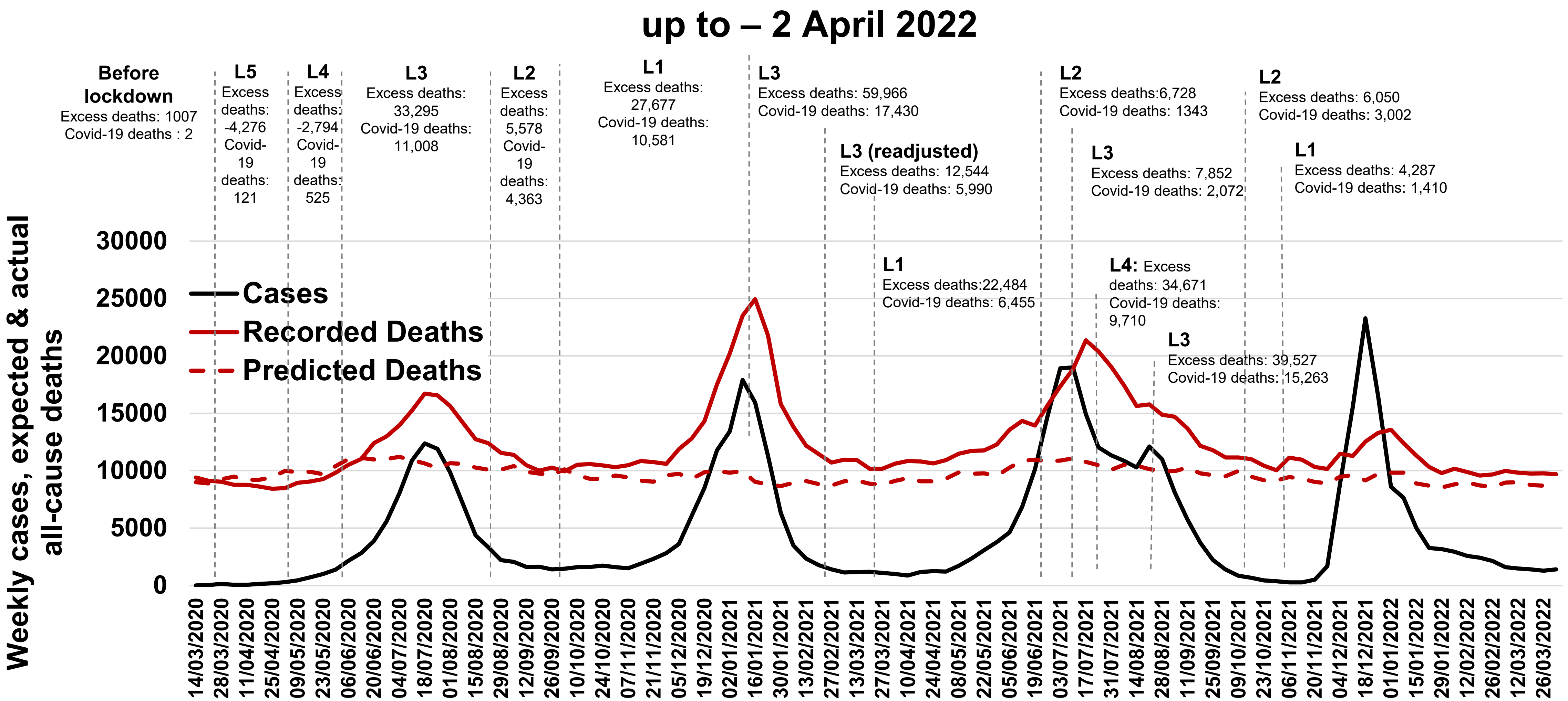
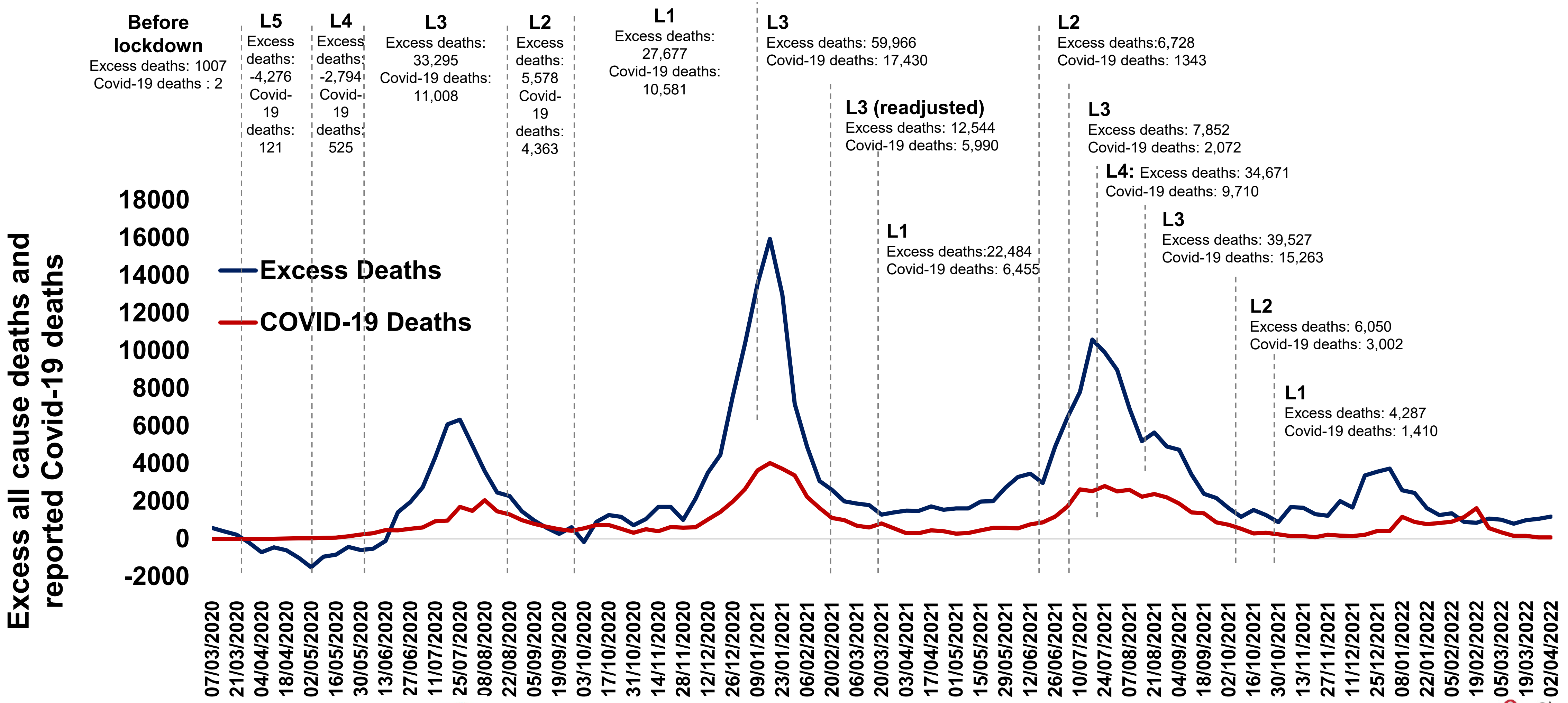
Expected & actual all-cause deaths during Covid-19



Source: Bradshaw D, et al

Weekly excess all cause deaths & reported Covid-19 deaths

up to – 2 April 2022



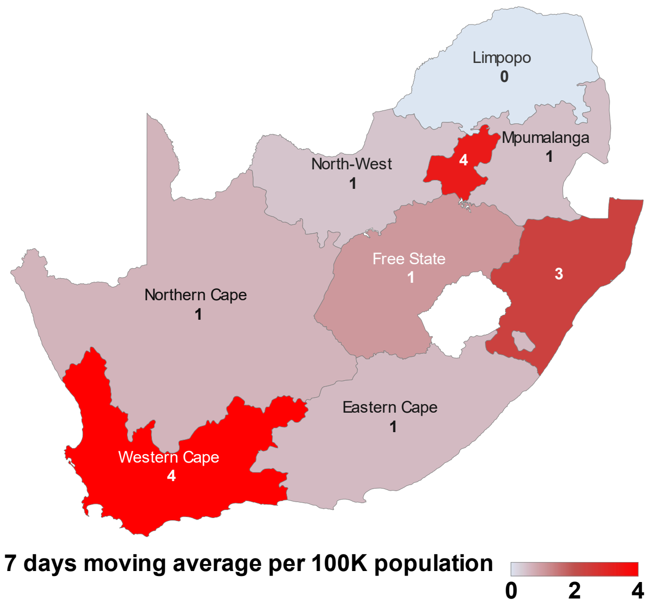
Source: Bradshaw D, et al

South Africa Provincial SARS-CoV-2 cases in the 4 waves

Daily new cases over last 7 days/100,000

up to – 6 April 2022

Province	Population per 100,000	7 Days Moving Average: at 7 days back	Per 100K at 7 days back	at a day back	100K at a day back	Increase / Decrease
Eastern Cape	67	61	1	68	1	10%
Free State	29	42	1	43	1	3%
Gauteng	155	539	3	584	4	8%
KwaZulu Natal	115	288	2	322	3	12%
Limpopo	59	28	0	25	0	-9%
Mpumalanga	47	39	1	44	1	13%
North West	41	48	1	36	1	-24%
Northern Cape	13	17	1	14	1	-17%
Western Cape	71	331	5	313	4	-6%
South Africa	597	1392	2	1449	2	4%
Africa	13410	9836	1	3482	0	-65%
World	77952	1545955	20	1223071	16	-21%

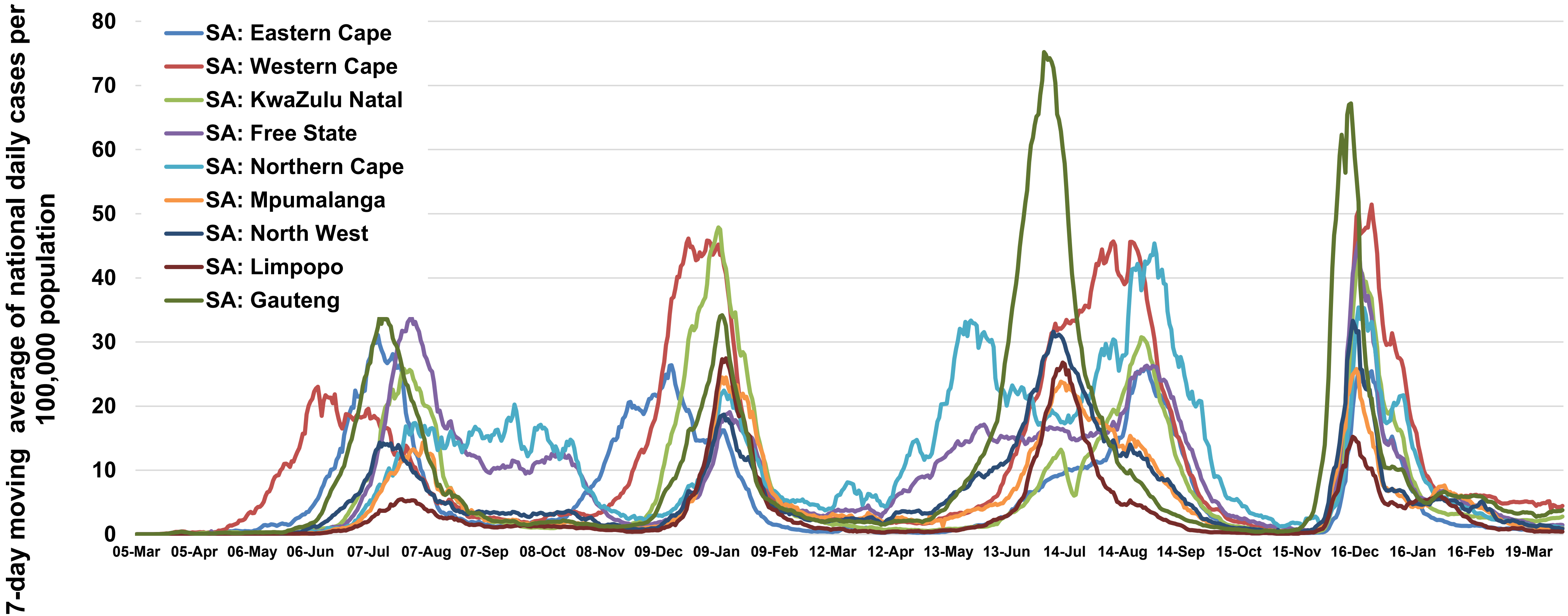


Data source: Department of Health

Confirmed SARS-Cov-2 cases by province

7-day moving average cases per 100,000 population

up to – 6 April 2022



Data source: Department of Health; Analysis

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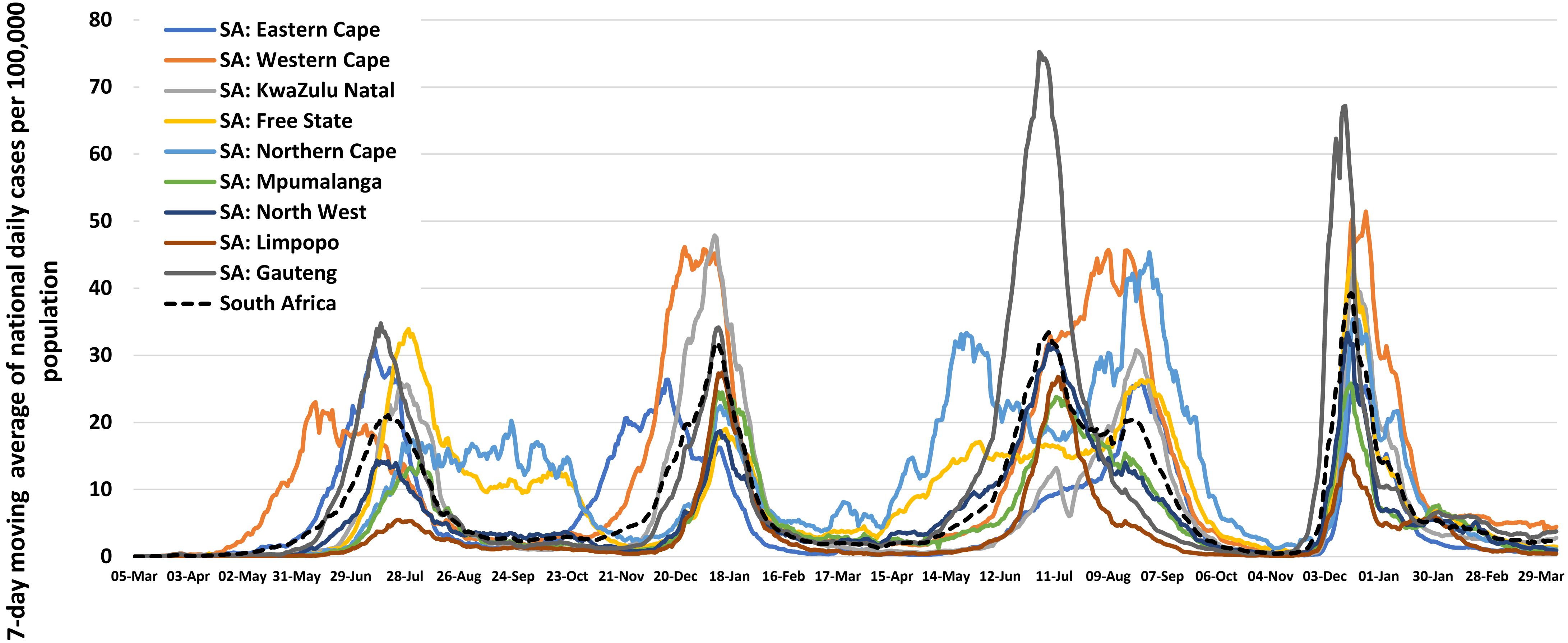
Confirmed SARS-Cov-2 cases by province

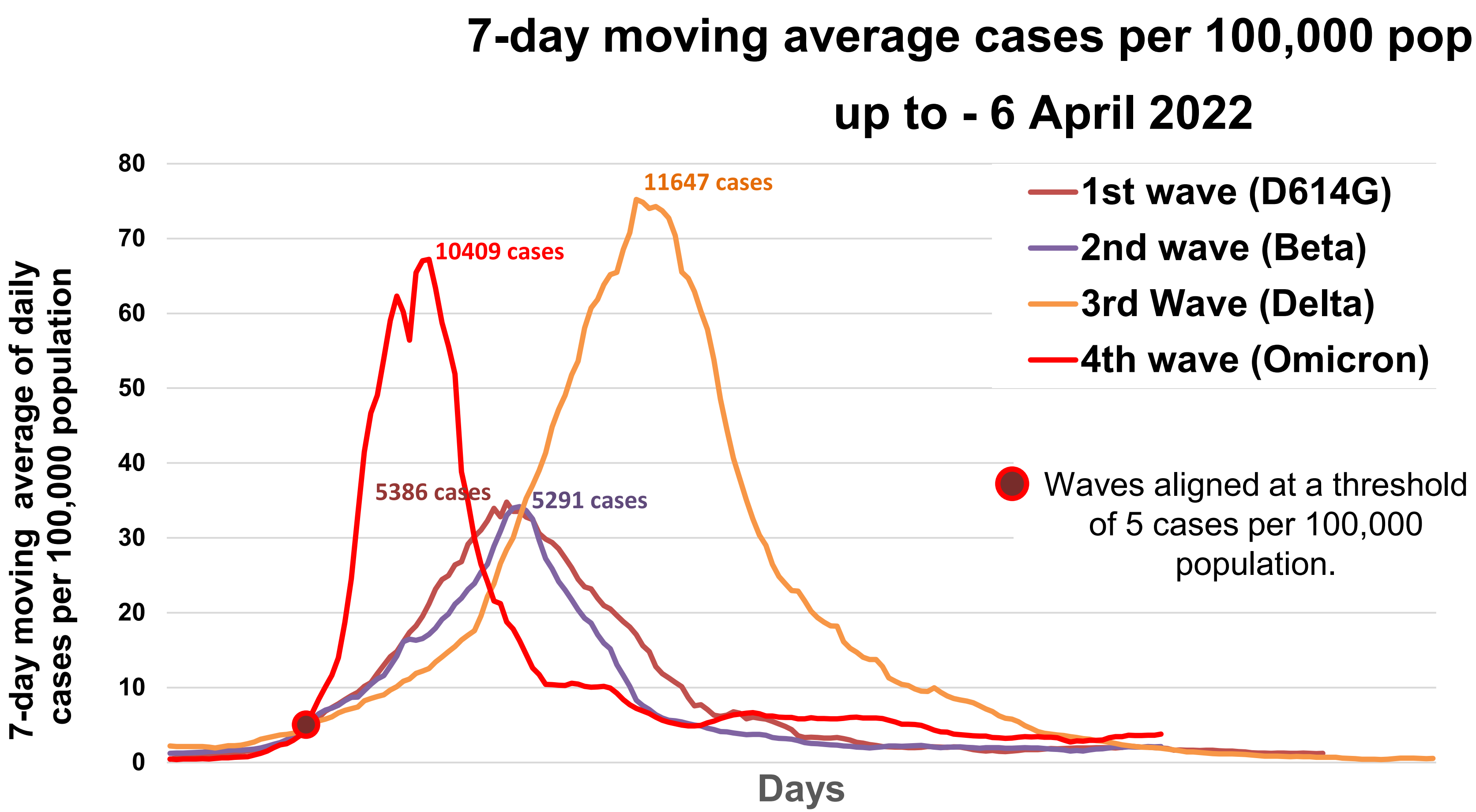
7-day moving average cases per 100,000 population

up to – 06 April 2022



Data source: Department of Health; Analysis

SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Gauteng



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

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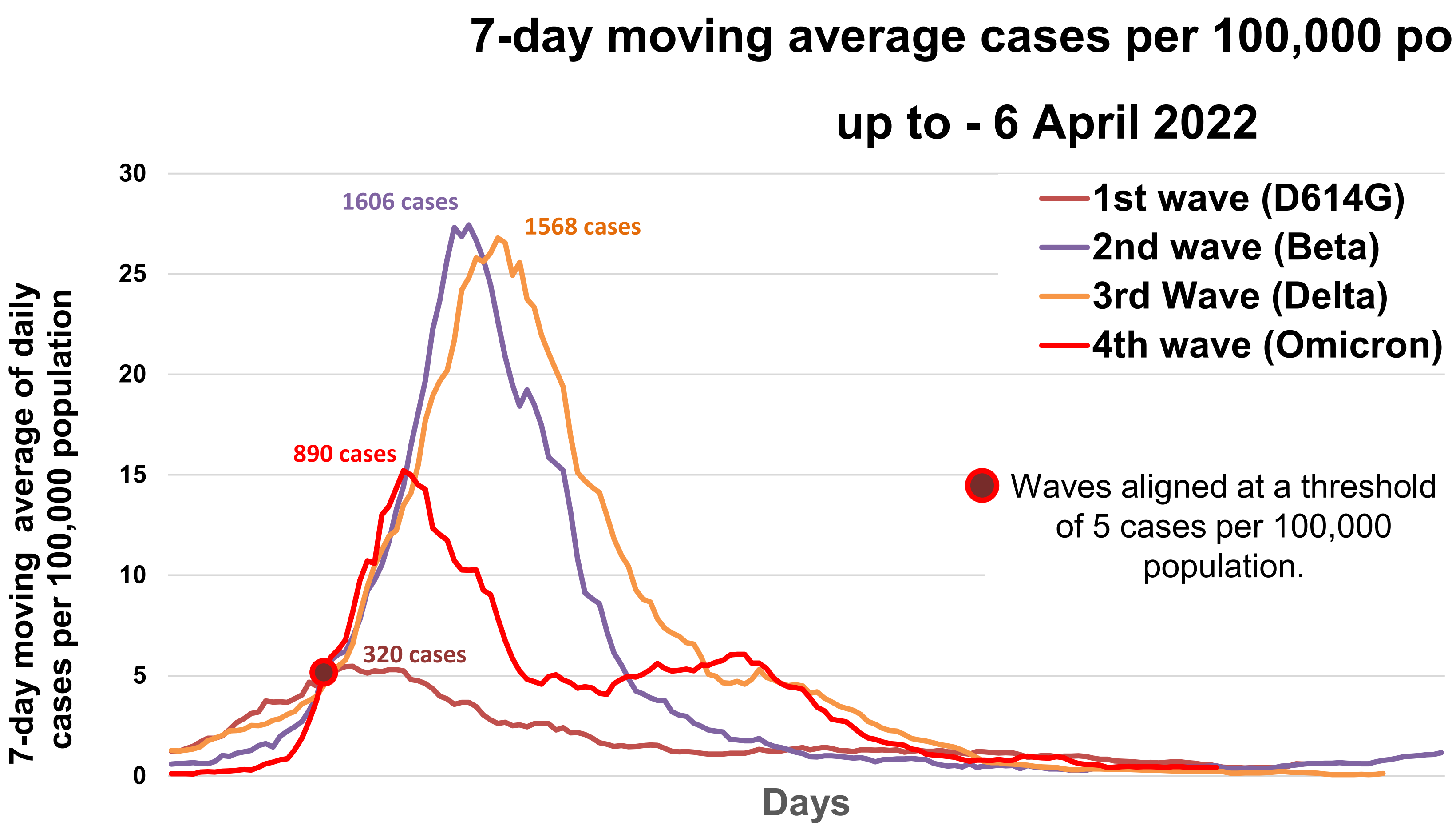
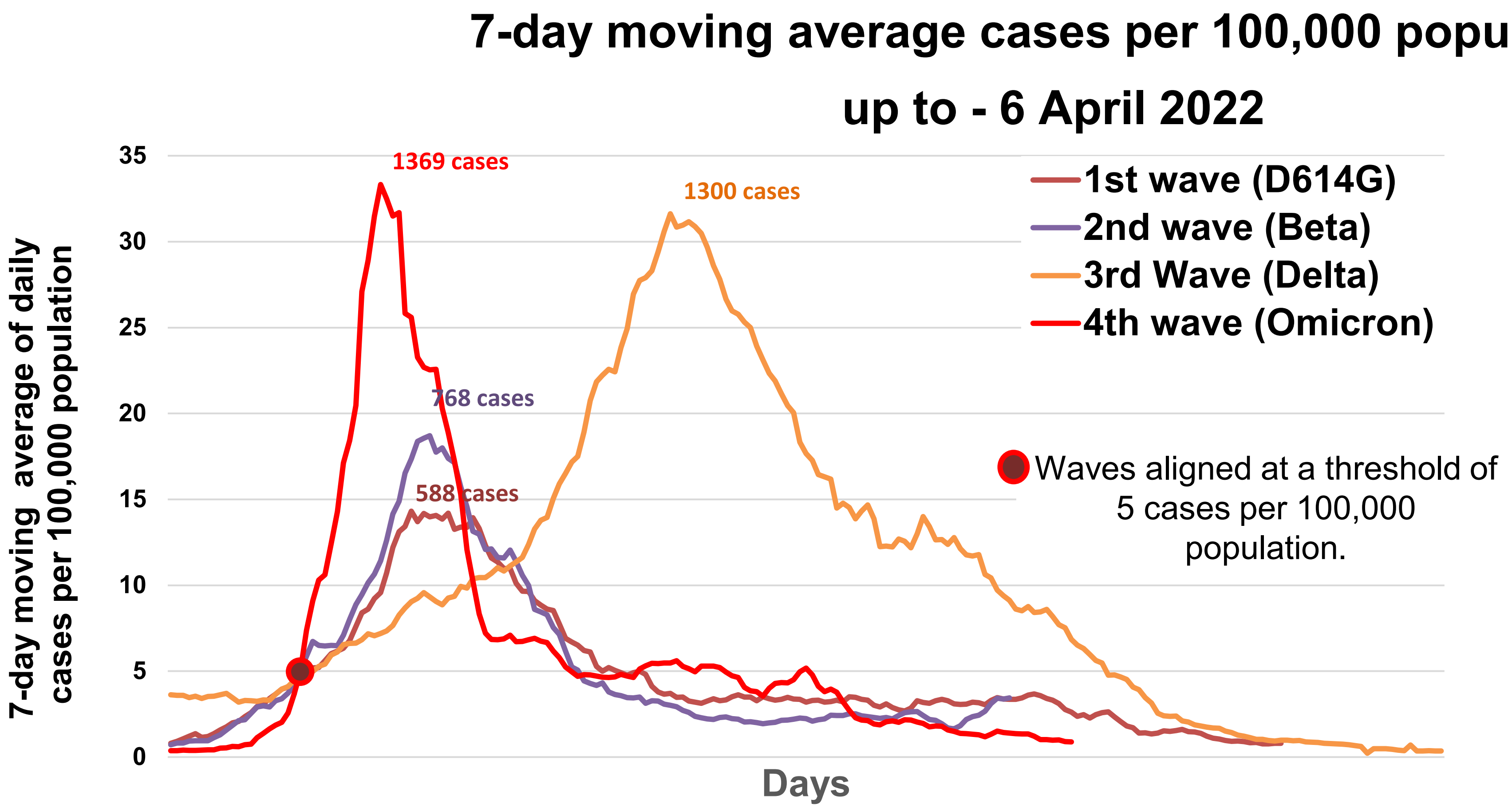
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Limpopo



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: North West



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

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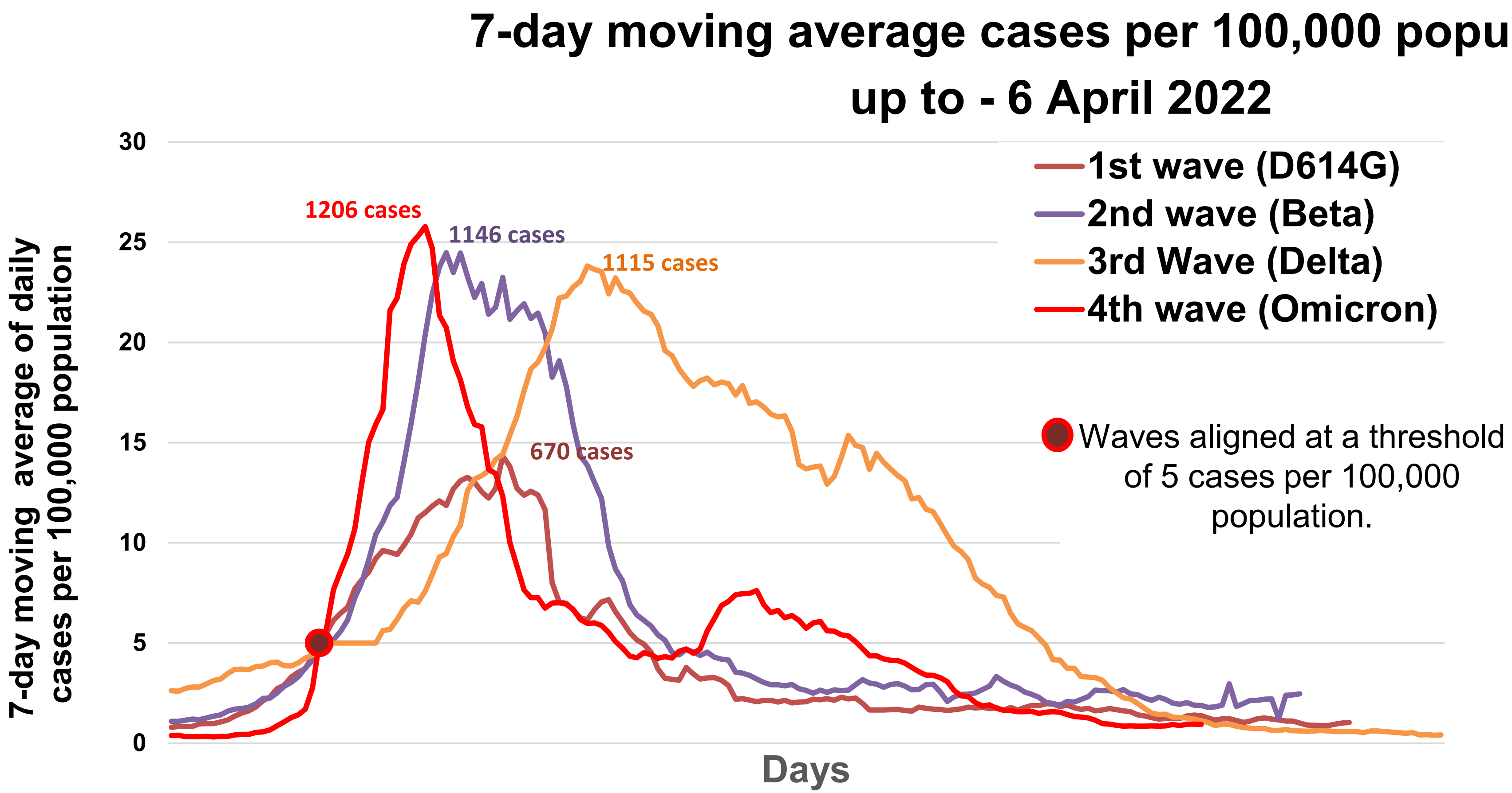
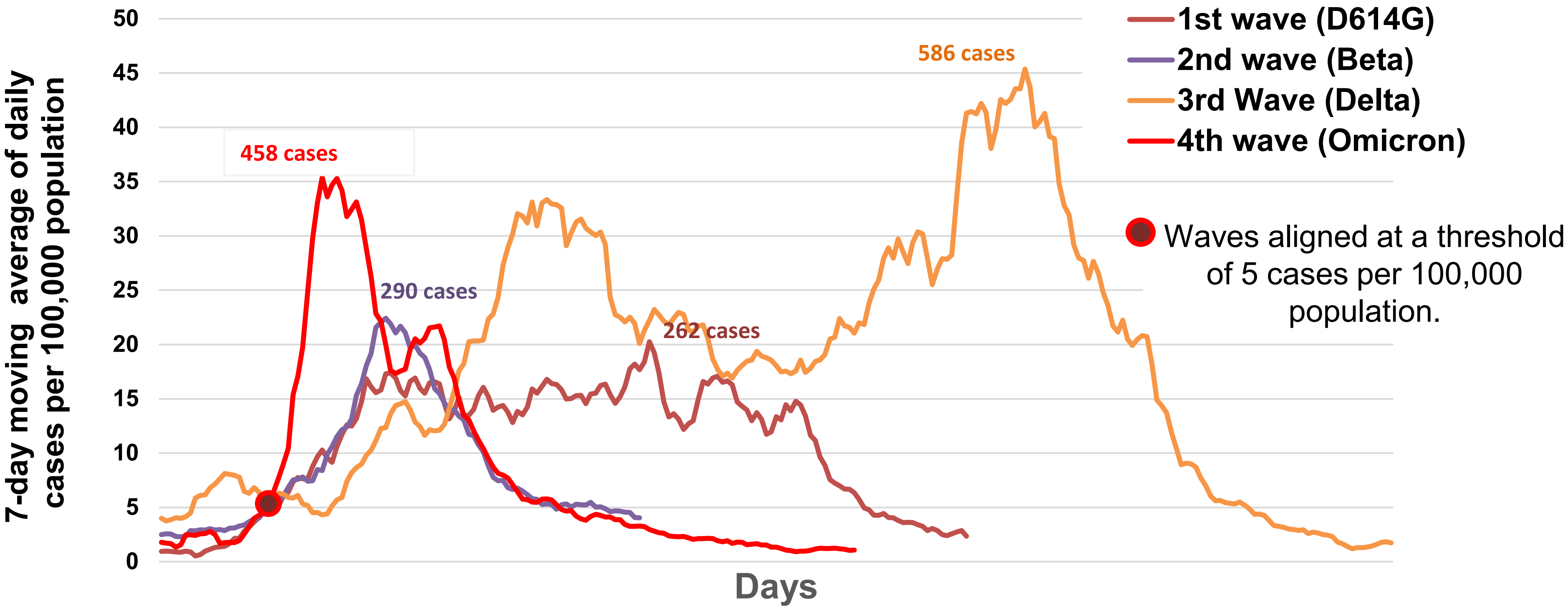
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Mpumalanga



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Northern Cape

7-day moving average cases per 100,000 population up to – 6 April 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

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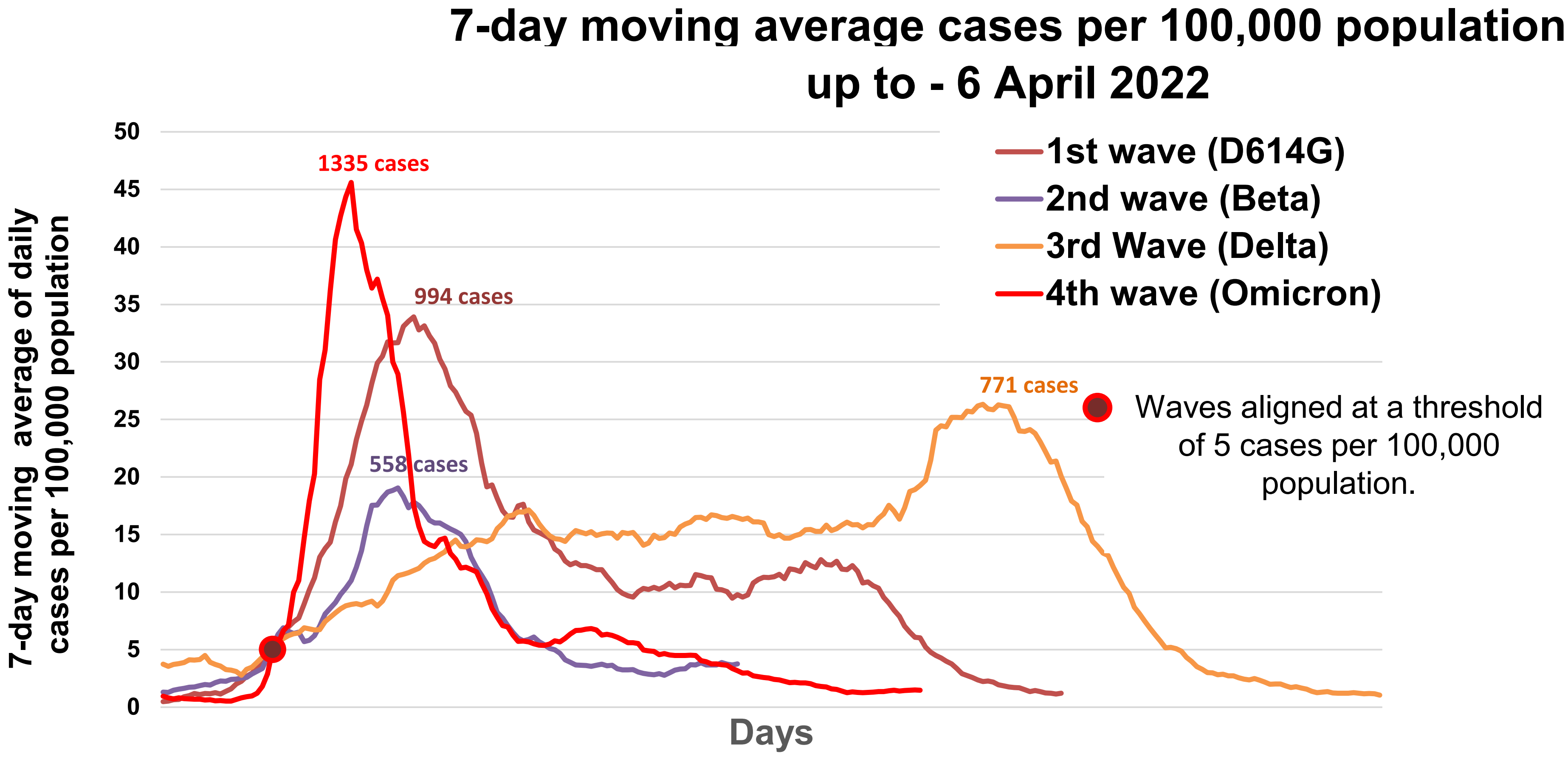
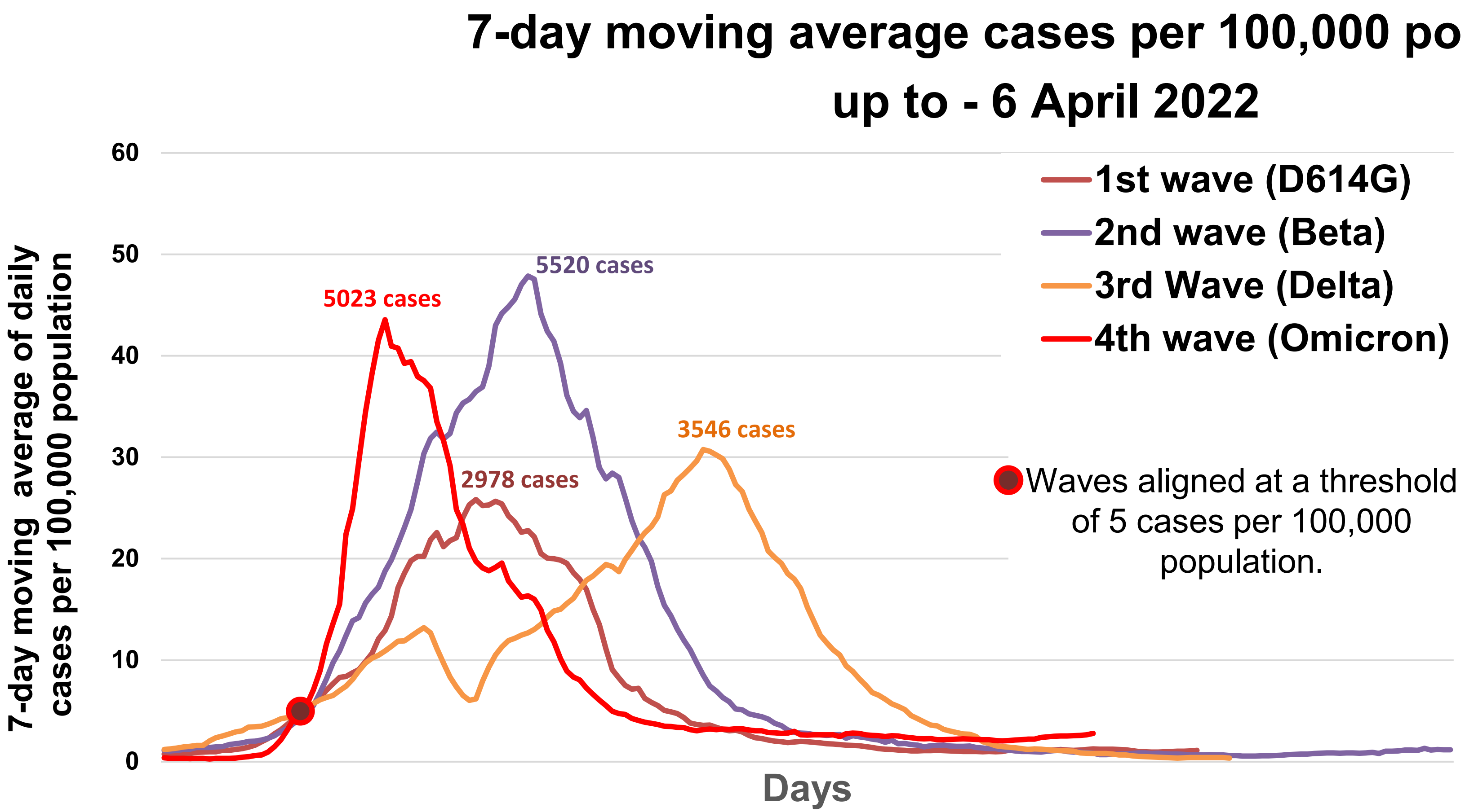
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Free State



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: KwaZulu Natal



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

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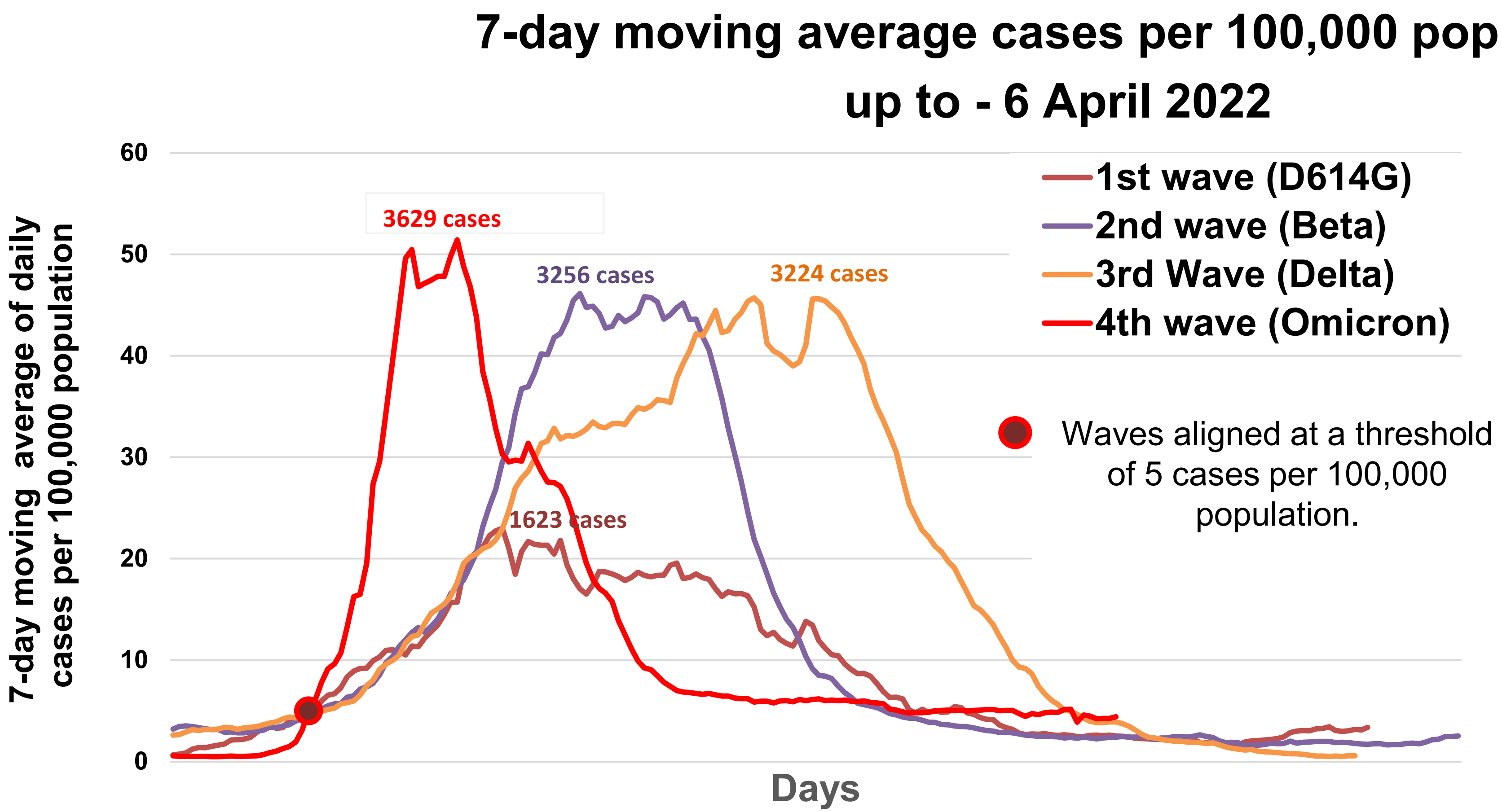
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Western Cape



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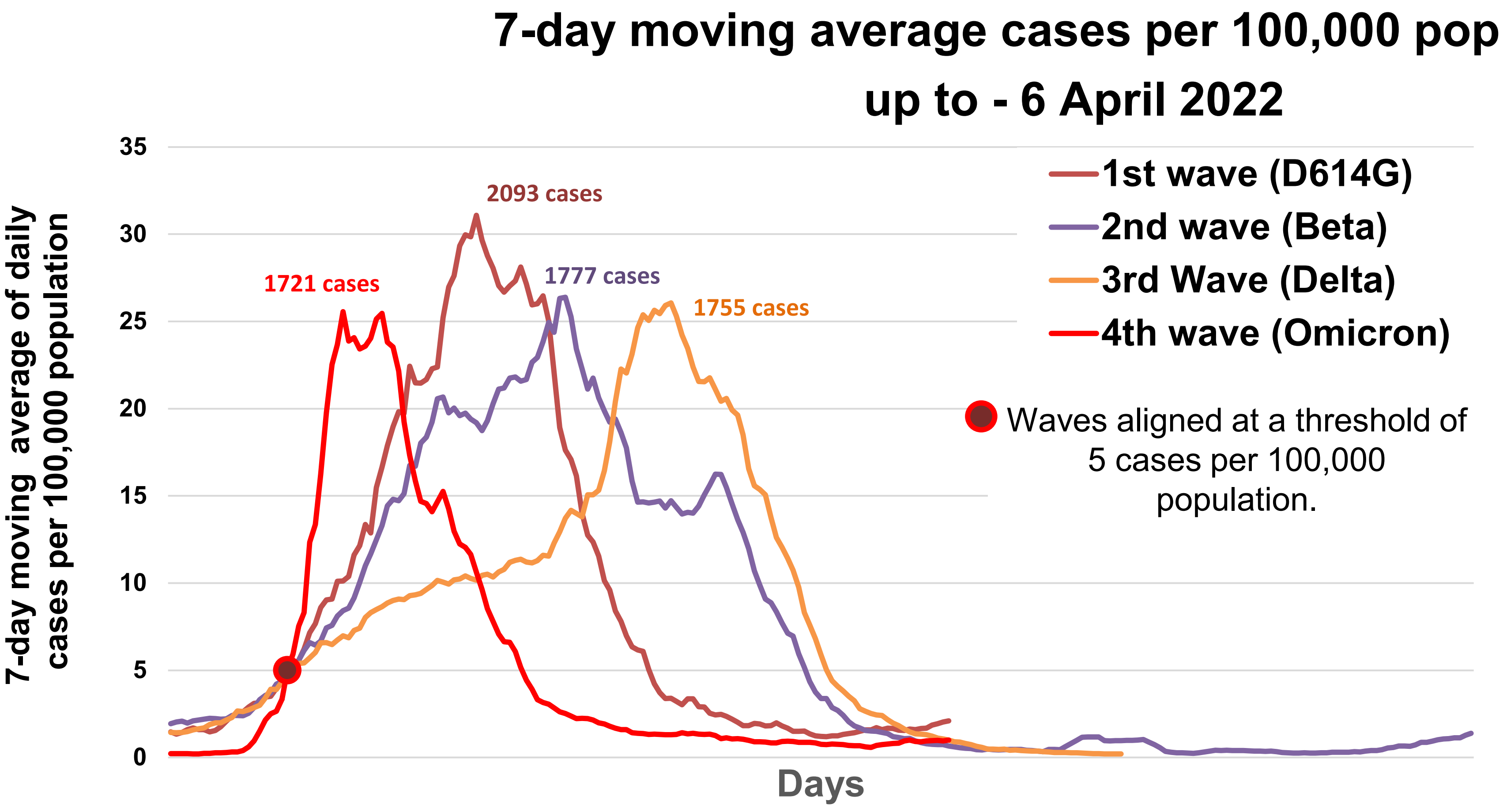
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: Eastern Cape



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