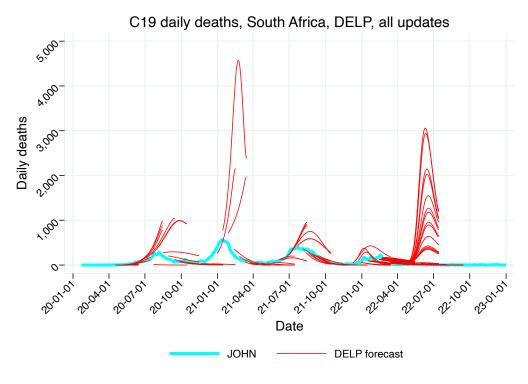
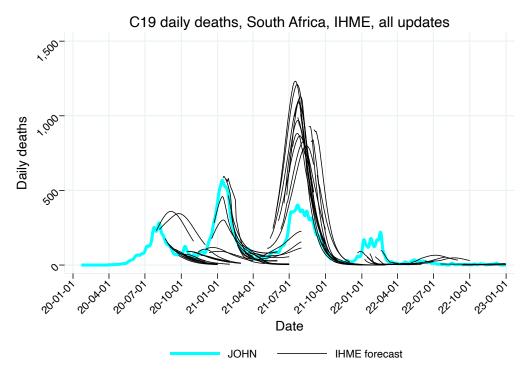
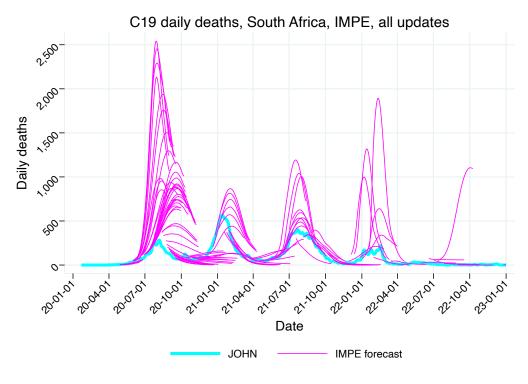
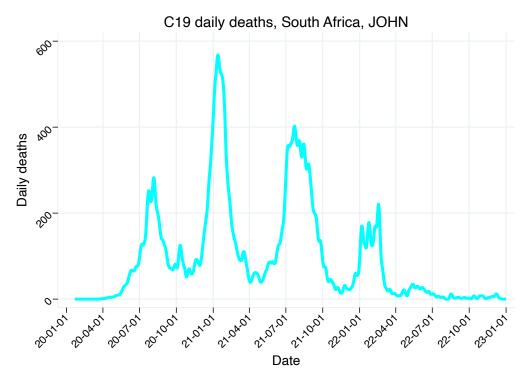
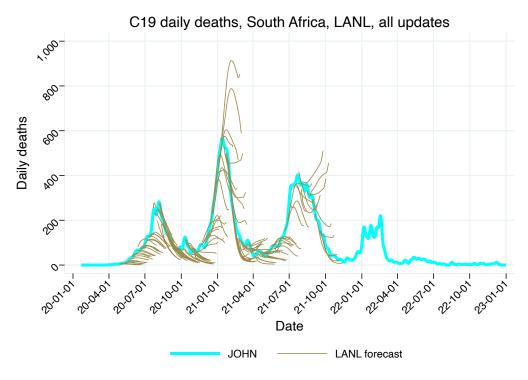
C19 daily deaths, South Africa, all models, all updates, forecast only 2000-*000-Daily deaths 2000-100-0parai pakai palai paraai raiai rakai ralai riaai nakai nakai nakai nakai nakai Date **JOHN DELP** IHME **IMPE** LANL **UCLA** YYGU

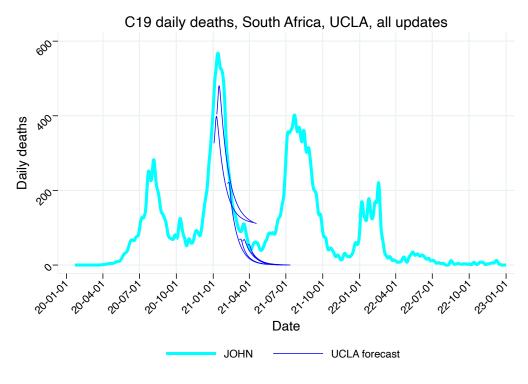


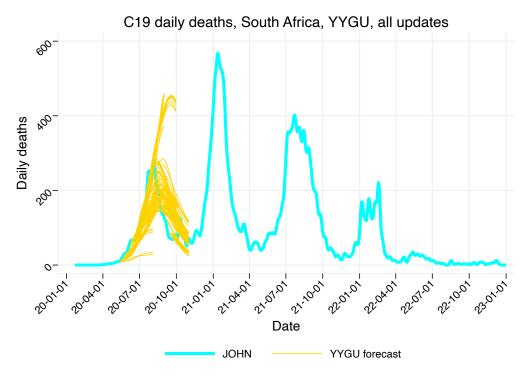








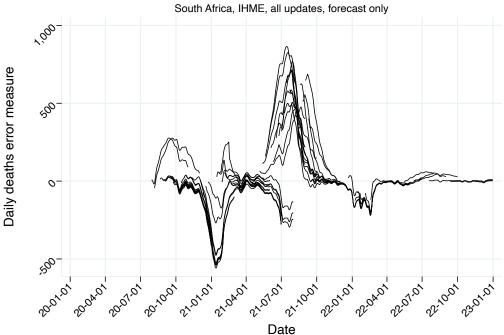




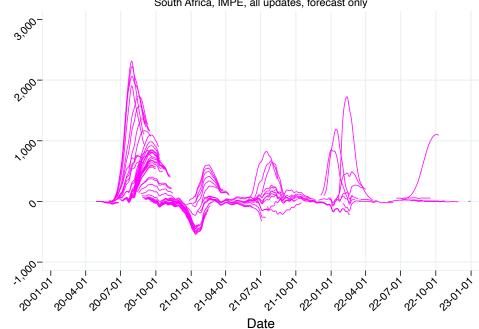
C19 daily deaths error South Africa, all Models, all updates, forecast only *'000_ Daily deaths error measure 3000-2,000-100-0-2001.01 ' pour pala prod' rata' rata' rata' rata' rata' rata' rata' Date **DELP** IHME **IMPE** LANL **UCLA YYGU**

C19 daily deaths error South Africa, DELP, all updates, forecast only *'00_-Daily deaths error measure 3000-2000-100-0-2001.01 pakar palar praar parar pakar parar parar pakar palar praar

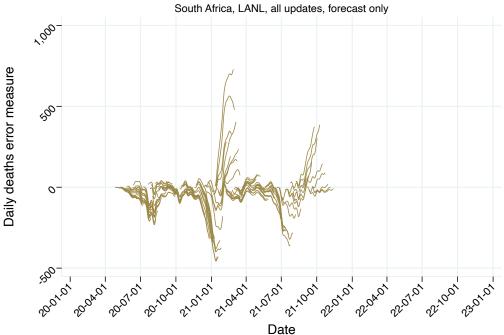
C19 daily deaths error



C19 daily deaths error
South Africa, IMPE, all updates, forecast only



C19 daily deaths error



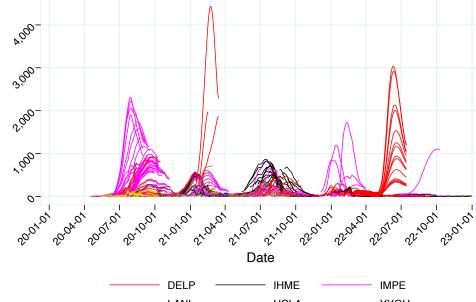
C19 daily deaths error South Africa, UCLA, all updates, forecast only 100-Daily deaths error measure 0-,00-300-300pot a pot a pot a pot a propi pata pata pata prota princi pot pot a pot a pot a

South Africa, YYGU, all updates, forecast only **100** Daily deaths error measure 200-0potal pokal potal priori prota pokal prata priori potal potal potal potal prota

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C19 daily deaths error

C19 daily deaths absolute error South Africa, all Models, all updates, forecast only *000_ Daily deaths error measure



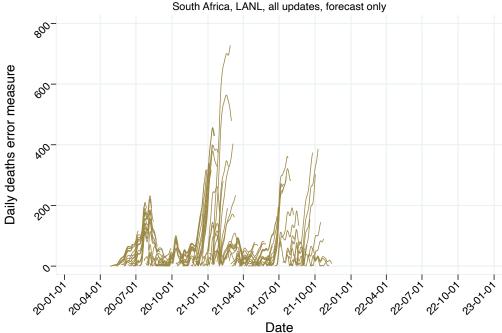


C19 daily deaths absolute error South Africa, DELP, all updates, forecast only *000_ Daily deaths error measure 3000-500-100-0point pour point prot tare tare train train stare son son son son son Date

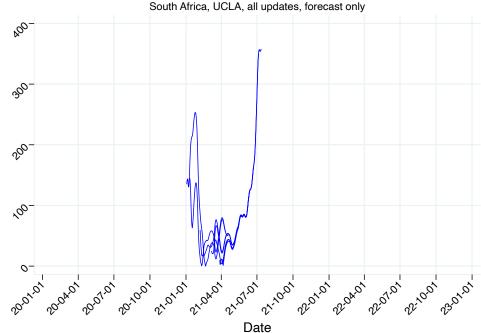
C19 daily deaths absolute error South Africa, IHME, all updates, forecast only -00g Daily deaths error measure 600-,00-200-0paia paka pala praa raia raka raia riaa paa pata paka pala praa Date

C19 daily deaths absolute error South Africa, IMPE, all updates, forecast only 2,500-2000-Daily deaths error measure 1/200-100-KODpoi al pokal polal priori grakal grakal grakal grakal grakal grakal grakal grakal

C19 daily deaths absolute error



C19 daily deaths absolute error

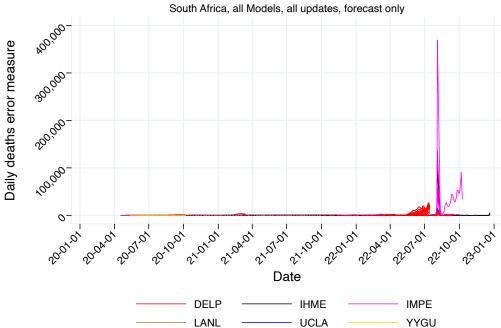


South Africa, YYGU, all updates, forecast only MO-Daily deaths error measure 30°-200-,00⁻ potal pakal palal proal ratal rakal ralal ritaal potal potal palal proal potal

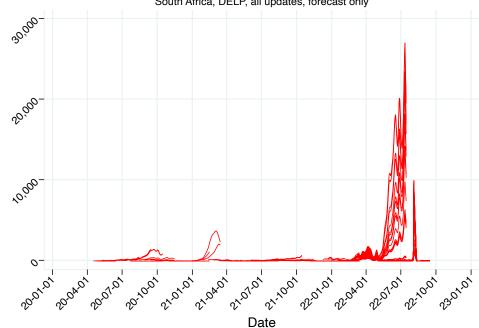
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C19 daily deaths absolute error

C19 daily deaths percent error

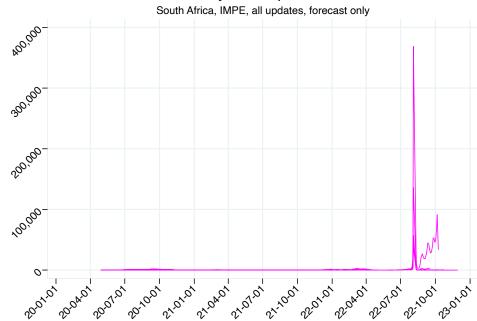


C19 daily deaths percent error South Africa, DELP, all updates, forecast only



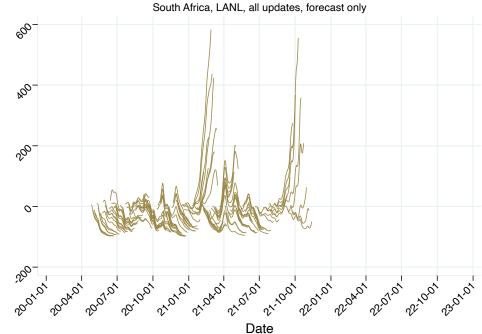
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C19 daily deaths percent error



Date

C19 daily deaths percent error

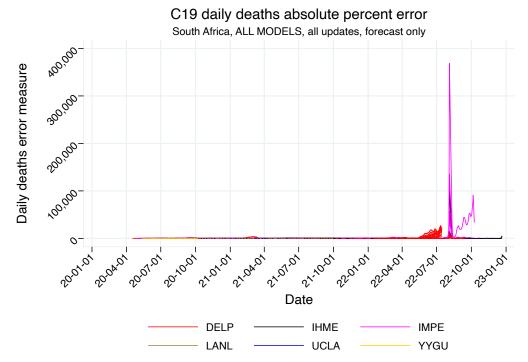


South Africa, UCLA, all updates, forecast only Daily deaths error measure 00. 0para paka para pran rata raka riala riaa paka paka paka para sisaa

Date

C19 daily deaths percent error

C19 daily deaths percent error South Africa, YYGU, all updates, forecast only 600-Daily deaths error measure MO. 200-0-200 - 200 -



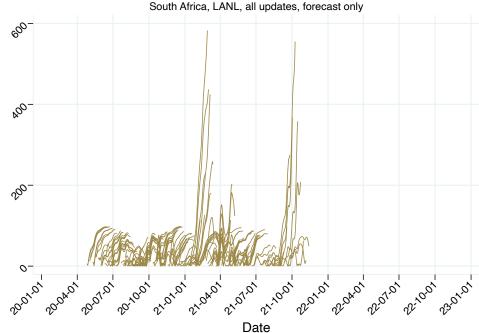
C19 daily deaths absolute percent error South Africa, DELP, all updates, forecast only 30,000-Daily deaths error measure

C19 daily deaths absolute percent error South Africa, IHME, all updates, forecast only 180'00-Daily deaths error measure pain part pain profund vara vara visa visa para para pain Date

C19 daily deaths absolute percent error South Africa, IMPE, all updates, forecast only ¹⁰⁰000_ Daily deaths error measure

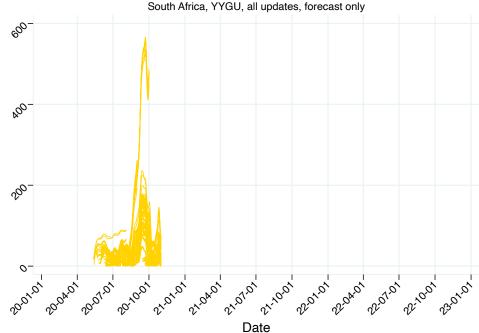
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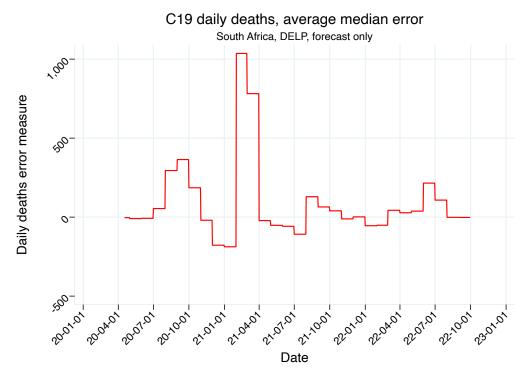
C19 daily deaths absolute percent error



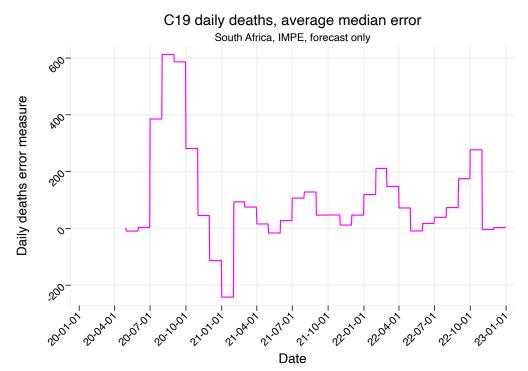
C19 daily deaths absolute percent error South Africa, UCLA, all updates, forecast only Daily deaths error measure 160-,00⁻ 30para paka pala praa rata rata rata riaa pata pata pata pata Date

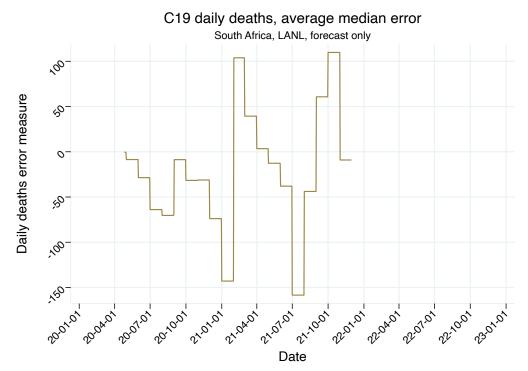
C19 daily deaths absolute percent error

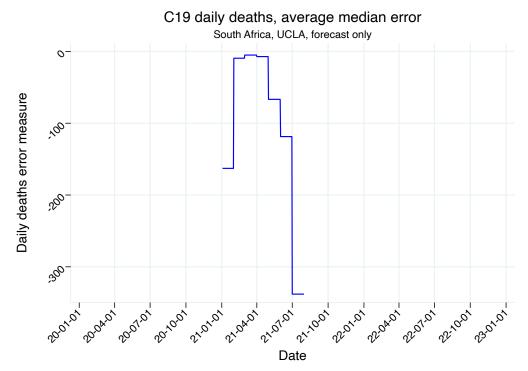




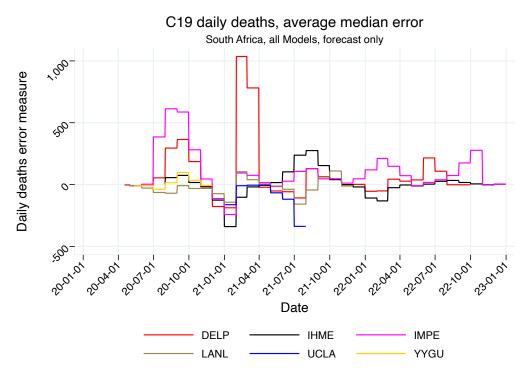
C19 daily deaths, average median error South Africa, IHME, forecast only MO-Daily deaths error measure 200-0-200pot a pot a pot a pot a propi pata pata pata prota princi pot pata pata pata Date



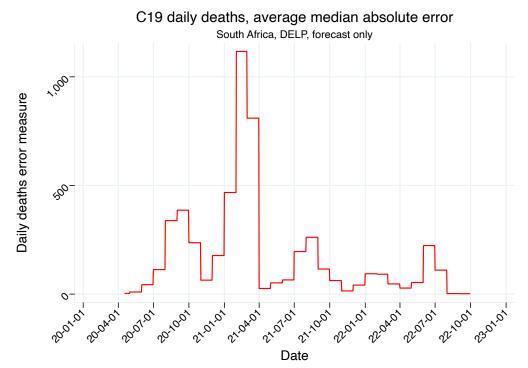


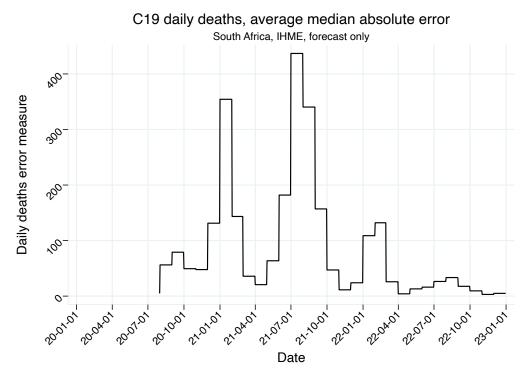


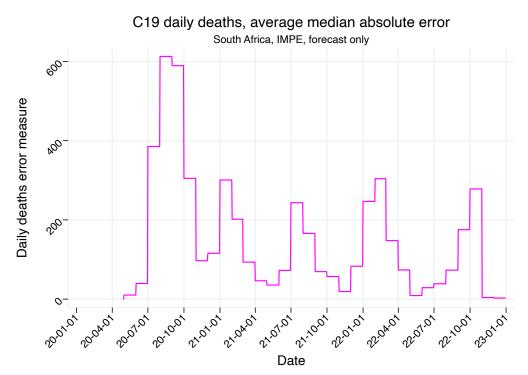
C19 daily deaths, average median error South Africa, YYGU, forecast only ,00⁻ Daily deaths error measure SO-0gara' gawa' gala' ga'aa' gawa' gala' ga'a' ga'a' ga'a' ga'a' ga'a' ga'a' Date



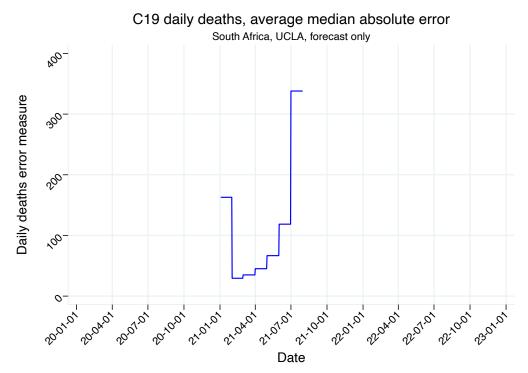
C19 daily deaths, average median error South Africa, all Models, forecast only; smoothed for better viewing 100-Daily deaths error measure KOD-0-Date **DELP** IHME **IMPE** LANL **UCLA** YYGU



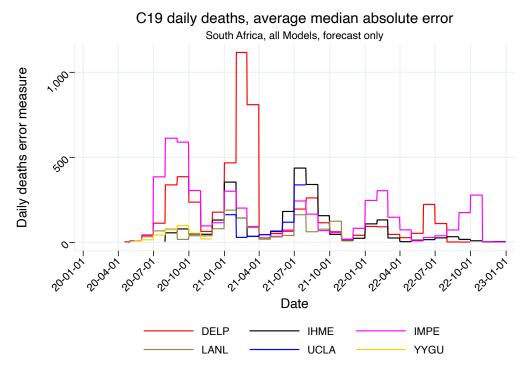


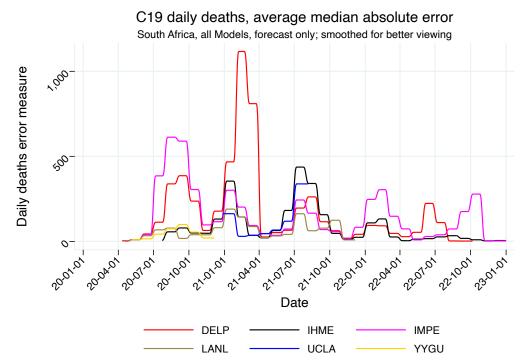


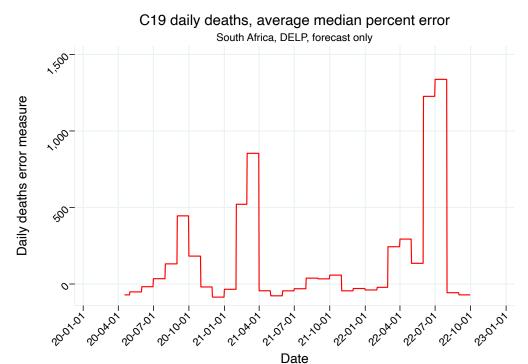
C19 daily deaths, average median absolute error South Africa, LANL, forecast only 500-Daily deaths error measure 160-,ooедpara paka pala praa rata rata rata riaa pata pata pata pata



C19 daily deaths, average median absolute error South Africa, YYGU, forecast only *-00,* Daily deaths error measure 80-60-0 20para paka pala praa rata rata rata riaa pata pata pata pata





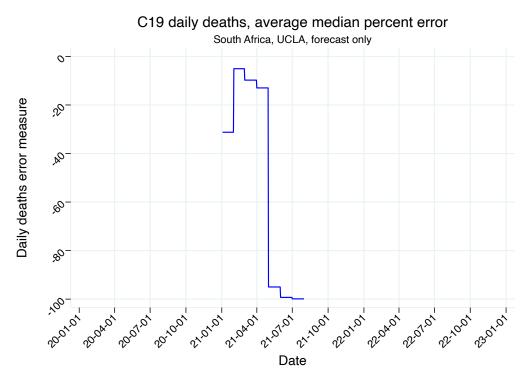


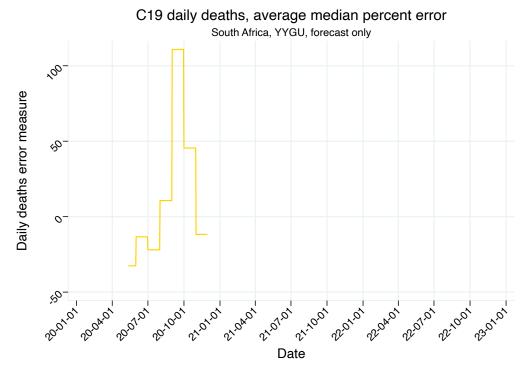
C19 daily deaths, average median percent error South Africa, IHME, forecast only 1,500-Daily deaths error measure 100-600-0potal pokal potal praal rakal rakal ratal ritool pakal rakal ritool pakal Date

South Africa, IMPE, forecast only 12,000-Daily deaths error measure

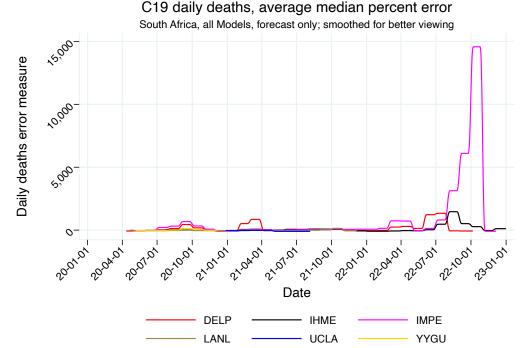
C19 daily deaths, average median percent error

C19 daily deaths, average median percent error South Africa, LANL, forecast only 160-Daily deaths error measure ,00⁻ 30-0-2001 and 2011 and 201





C19 daily deaths, average median percent error South Africa, all Models, forecast only 12,000-Daily deaths error measure 10000-2000-0-Date **DELP** IHME **IMPE** LANL **UCLA** YYGU

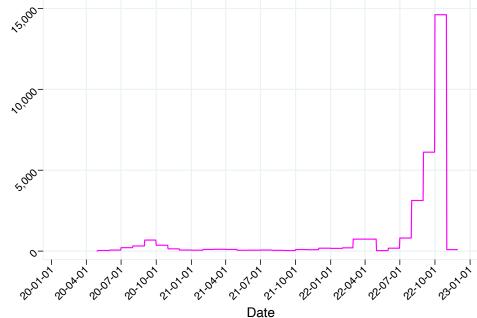


C19 daily deaths, average median absolute percent error South Africa, DELP, forecast only 1,500-Daily deaths error measure 100-SO point pour point product and take tale trace set and sever set at sever set

C19 daily deaths, average median absolute percent error South Africa, IHME, forecast only 1,500-Daily deaths error measure 100-600potal pokal potal praal rakal rakal ratal ritool pakal rakal ritool pakal

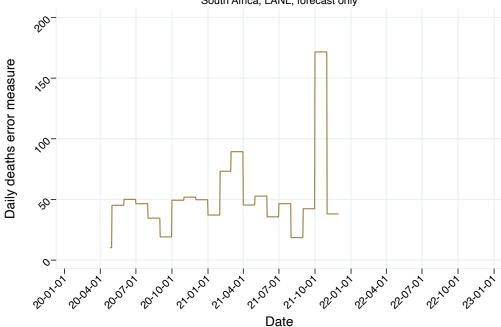
C19 daily deaths, average median absolute percent error South Africa, IMPE, forecast only 12,000-

Daily deaths error measure



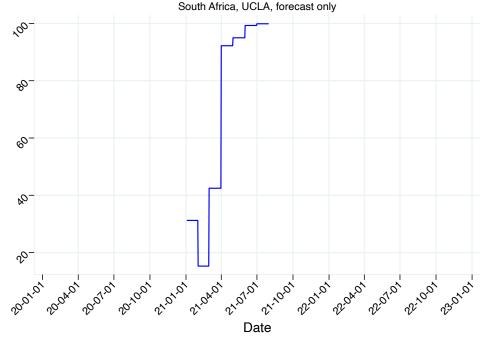
C19 daily deaths, average median absolute percent error

South Africa, LANL, forecast only



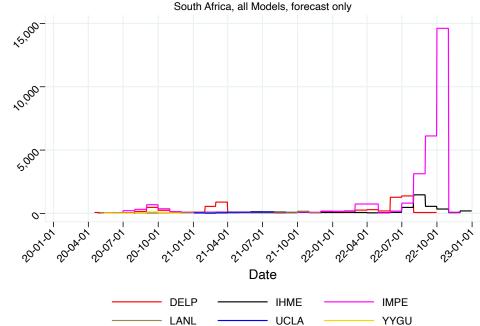
Daily deaths error measure

C19 daily deaths, average median absolute percent error



C19 daily deaths, average median absolute percent error South Africa, YYGU, forecast only 20-,00⁻ Daily deaths error measure 90-60 0

C19 daily deaths, average median absolute percent error



Daily deaths error measure

South Africa, all Models, forecast only; smoothed for better viewing 12,000-Daily deaths error measure 0-Date **DELP** IHME **IMPE**

LANL

C19 daily deaths, average median absolute percent error

UCLA

YYGU

C19 daily deaths average MAPE over updates and calendar months

South Africa, DELP, forecast only. MAPE: Median Absolute Percent Error 250 240 200-Average MAPE √k0__ ,00-SO.

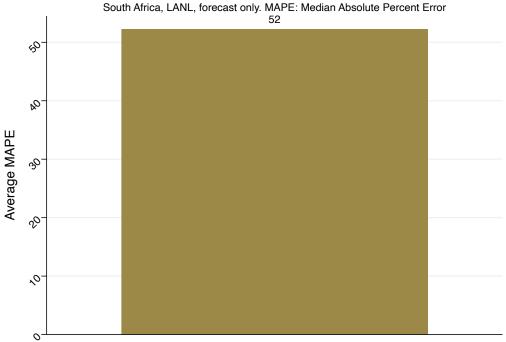
C19 daily deaths average MAPE over updates and calendar months South Africa, IHME, forecast only. MAPE: Median Absolute Percent Error 166 160 0 SO.

Average MAPE

C19 daily deaths average MAPE over updates and calendar months

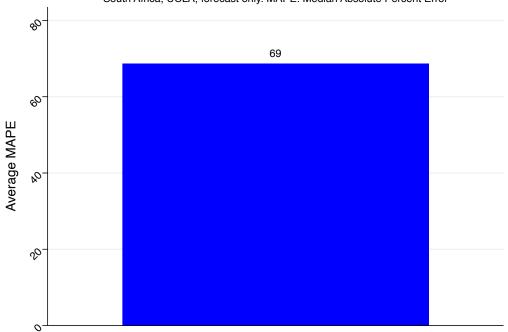


C19 daily deaths average MAPE over updates and calendar months



C19 daily deaths average MAPE over updates and calendar months

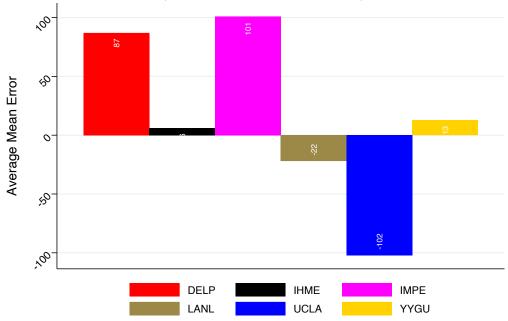
South Africa, UCLA, forecast only. MAPE: Median Absolute Percent Error



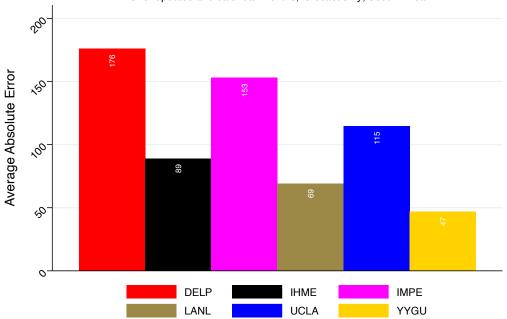
C19 daily deaths average MAPE over updates and calendar months

South Africa, YYGU, forecast only. MAPE: Median Absolute Percent Error 48 S W. Average MAPE go-20. 0,

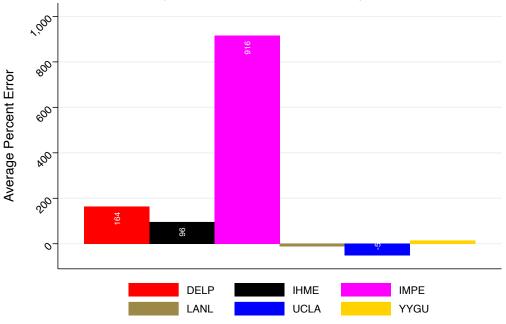
C19 daily deaths average of Mean Error



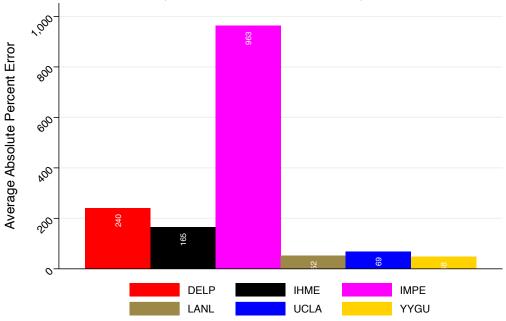
C19 daily deaths average of Absolute Error



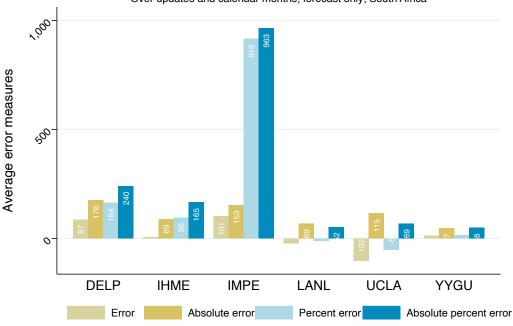
C19 daily deaths average of Percent Error



C19 daily deaths average of Absolute Percent Error



C19 daily deaths, models across average error measures



C19 daily deaths, average of error measures across models

