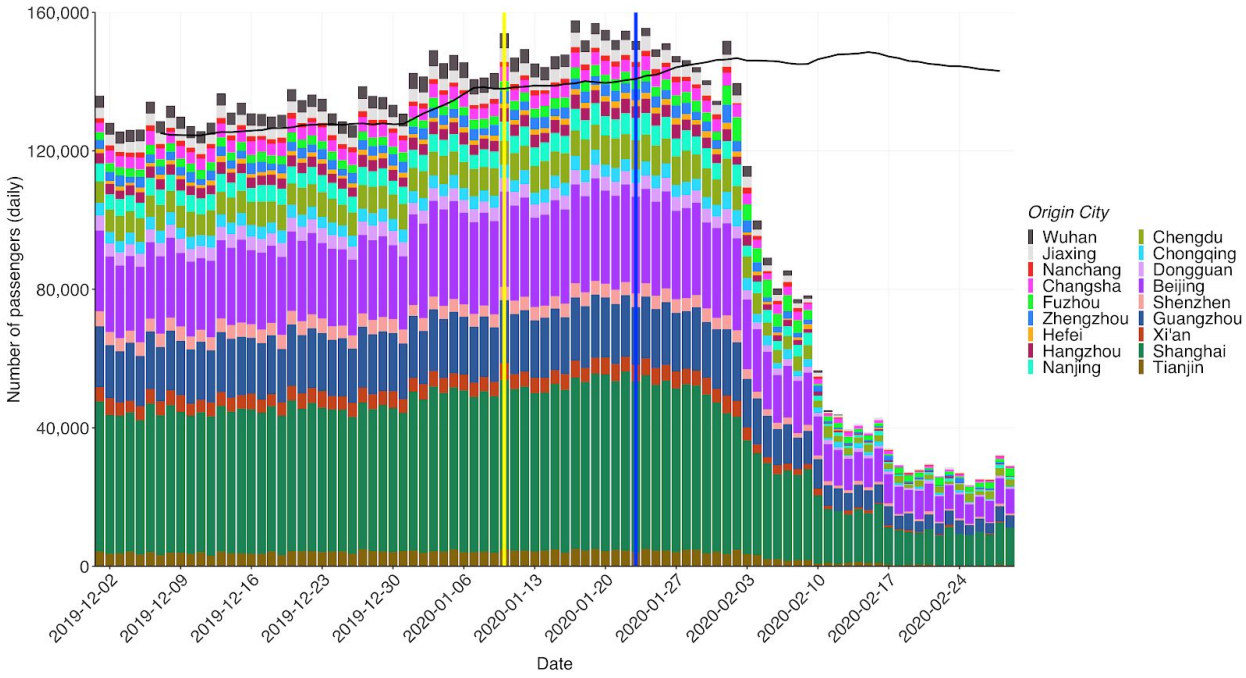
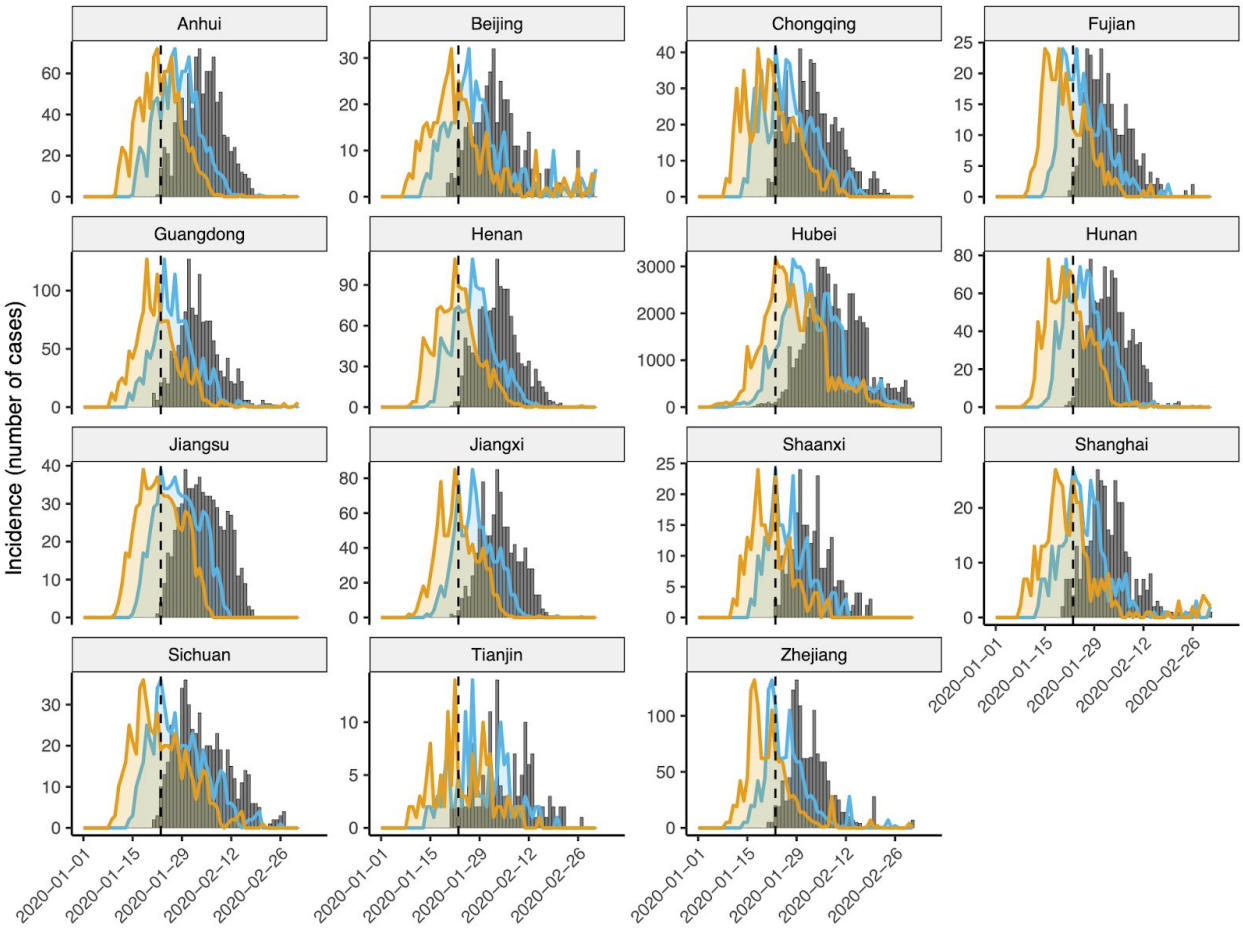
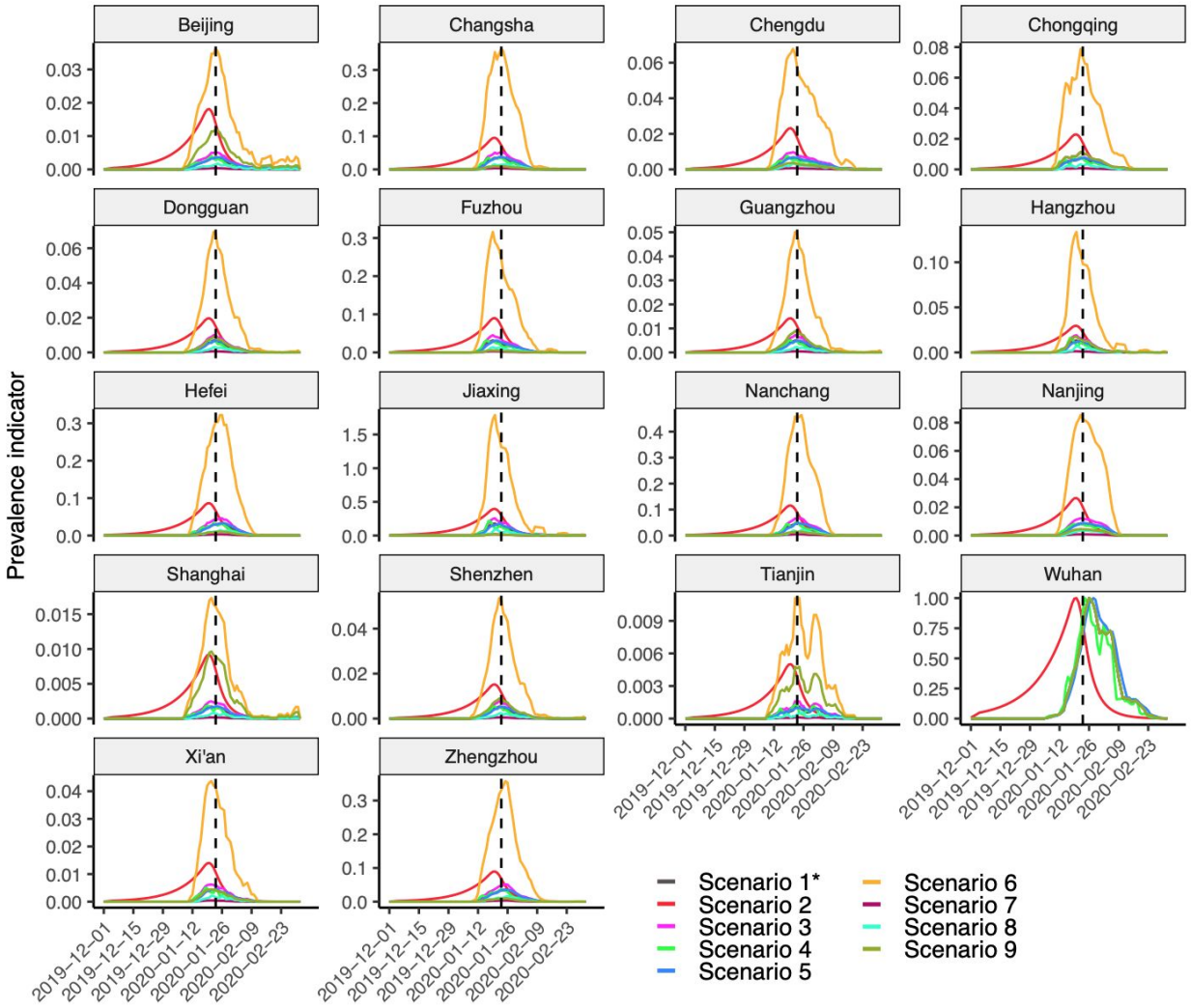
Supporting Information



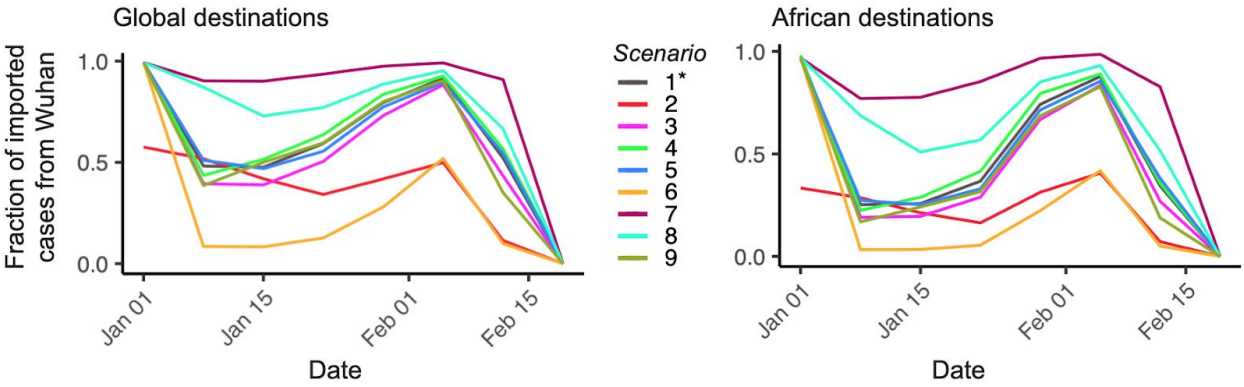
Supplementary Figure S1. Estimated daily flight volume from 18 Chinese cities to 43 international destinations (10 high-surveillance destinations for model validation, 26 African destinations, 7 additional destinations) from 1st December 2019 to 29th February 2020. The yellow vertical line marks the start of the 40-day Chunyun period surrounding Lunar New Year. The blue vertical line indicates 23rd January 2020, the day travel restrictions were widely implemented in Wuhan. The black line shows the 7-day rolling average of the estimated daily flight volume from 18 Chinese cities to 43 international destinations for the equivalent period one year earlier: from 1st December 2018 to 28th February 2019.



Supplementary Figure S2. Back-calculation of symptom onsets (blue) and infections (orange) from observed confirmed case counts (grey bars) for all provinces considered here. Confirmed cases were shifted back by 7 days (the mean confirmation delay) to estimate symptom onset incidence, then further by 5 days (the median incubation period) to estimate infection incidence of those cases. Vertical dashed line shows 23rd January 2020, the date of lockdown in Wuhan.



Supplementary Figure S3. Prevalence indicator in the 18 considered Chinese cities. Values were scaled relative to the maximum prevalence indicator in Wuhan within each scenario. Note that Scenarios 1, 3 and 6-9 yield identical curves in Wuhan. Note also that Scenario 2 is based on independent estimates as described in the main text Methods. Vertical dashed line shows 23rd January 2020, the date of lockdown in Wuhan.



Supplementary Figure S4. Weekly fraction of imported cases from Wuhan to global destinations (left-hand side) and to African destinations (right-hand side) shows as mean predictions for each of the 9 scenarios. The best-estimate scenario is Scenario 1 (highlighted with an asterisk). The x-axis shows the date for the current year 2020.

Country	1*	2	3	4	5	6	7	8	9
Algeria	1.56	0.21	1.59	1.15	1.92	2.18	1.50	1.52	1.68
Angola	0.13	0.07	0.14	0.11	0.15	0.45	0.10	0.11	0.18
DRC	0.10	0.07	0.15	0.07	0.12	1.02	0.01	0.04	0.19
Côte D'Ivoire	0.10	0.07	0.13	0.08	0.12	0.74	0.04	0.06	0.19
Egypt	3.89	2.45	5.29	3.02	4.54	33.23	0.95	1.91	3.29
Equatorial Guinea	0.04	0.02	0.04	0.03	0.04	0.19	0.02	0.03	0.08
Ethiopia	0.63	0.40	0.84	0.47	0.76	5.15	0.18	0.33	1.24
Gabon	0.06	0.04	0.08	0.05	0.07	0.36	0.03	0.04	0.12
Ghana	0.24	0.15	0.30	0.19	0.28	1.57	0.11	0.15	0.41
Guinea	0.06	0.06	0.08	0.04	0.07	0.59	0.01	0.02	0.16
Kenya	1.95	0.84	2.30	1.53	2.28	9.21	1.22	1.46	1.79
Madagascar	0.07	0.05	0.10	0.06	0.08	0.58	0.02	0.04	0.13
Mauritania	0.04	0.02	0.04	0.03	0.05	0.20	0.02	0.03	0.06
Mauritius	0.28	0.20	0.37	0.21	0.32	2.34	0.07	0.14	0.62
Morocco	1.52	0.77	1.80	1.21	1.75	7.38	0.93	1.12	1.82
Mozambique	0.14	0.06	0.15	0.10	0.17	0.52	0.10	0.11	0.17
Nigeria	0.38	0.26	0.51	0.29	0.45	3.07	0.11	0.20	0.68
Senegal	0.07	0.05	0.09	0.05	0.08	0.52	0.02	0.04	0.16
Seychelles	0.18	0.08	0.21	0.15	0.21	0.63	0.14	0.15	0.23
South Africa	4.51	1.72	5.17	3.47	5.37	18.34	3.13	3.60	4.41
Sudan	0.24	0.16	0.35	0.19	0.28	2.42	0.02	0.09	0.25
Tanzania	0.31	0.20	0.40	0.24	0.36	2.39	0.10	0.17	0.46
Tunisia	0.17	0.10	0.22	0.13	0.21	1.25	0.07	0.10	0.19
Uganda	0.20	0.13	0.27	0.15	0.24	1.60	0.06	0.11	0.35
Zambia	1.42	0.25	1.52	1.03	1.75	3.64	1.19	1.27	1.58
Zimbabwe	0.14	0.09	0.18	0.12	0.16	0.83	0.07	0.10	0.19
Total	**18.4**	**8.5**	**22.3**	**14.2**	**21.8**	**100**	**10.2**	**12.9**	**20.6**

Supplementary Table S1. Table of mean imported cases to 26 African destination locations, by scenario, with our best-guess scenarios marked by a *. Countries ordered alphabetically.