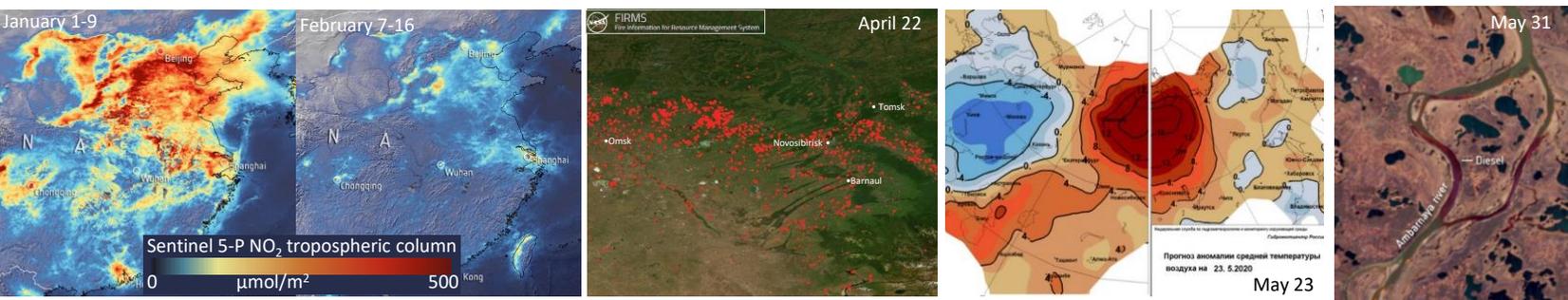




# PEEX

# X

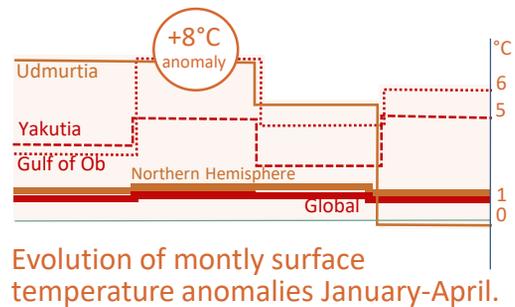
## on the map during 2020 EXTREME EVENTS TRAORDINARY CONDITIONS



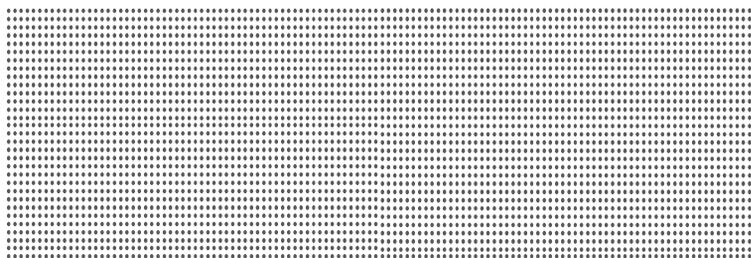
Lockdown in China due to COVID19 results in long period of exceptional air composition.



Mild winter followed by heat waves in Arctic and Siberia.



Warmest winter in record, since 1891



Early and intense fires

Diesel spill from collapsed tank in Norilsk released 21000 tons of fuel. For comparison: 25 big tank trucks=1 1989 Exxon Valdez bigger oil spill=37.

37

Sources :  
 Sentinel 5-P NO<sub>2</sub> tropospheric column, snapshots from [https://www.esa.int/Applications/Observing\\_the\\_Earth/Copernicus/Sentinel-5P/COVID-19\\_nitrogen\\_dioxide\\_over\\_China](https://www.esa.int/Applications/Observing_the_Earth/Copernicus/Sentinel-5P/COVID-19_nitrogen_dioxide_over_China)  
 "TROPOMI NO<sub>2</sub> observations over Chines cities" <https://eo4society.esa.int/2020/05/14/is-the-global-covid-19-related-drop-in-no2-pollution-coming-to-an-end/>  
 Fires on April 22 2020: combines NRT+SP for all products, as delivered by FIRMS [https://firms.modaps.eosdis.nasa.gov/map/#t:adv;d:2020-04-22;l:noaa20-viirs,viirs,modis\\_a;@86.5,53.8,6z](https://firms.modaps.eosdis.nasa.gov/map/#t:adv;d:2020-04-22;l:noaa20-viirs,viirs,modis_a;@86.5,53.8,6z)  
 Heat wave alert issued on May 22 from Roshydromet weather forecast <https://meteoinfo.ru/novosti/17135-na-zapade-yakutii-nastupaet-leto>  
 Arctic circle oil spill from [https://www.esa.int/About\\_Us/Week\\_in\\_images/Week\\_in\\_images\\_1-5\\_June\\_2020](https://www.esa.int/About_Us/Week_in_images/Week_in_images_1-5_June_2020) Snapshot form original gif and image cropped ©contains modified Copernicus Sentinel data (2020), processed by ESA, CC BY-SA 3.0 IGO  
 Surface temperature anomalies for land+ocean from "Climate at a glance" <https://www.ncdc.noaa.gov/cag/global/time-series/>  
 Other dates and values: Wikipedia and press.