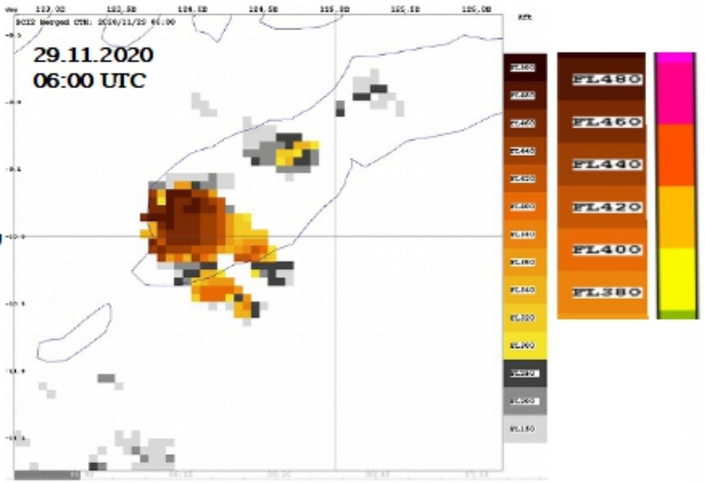
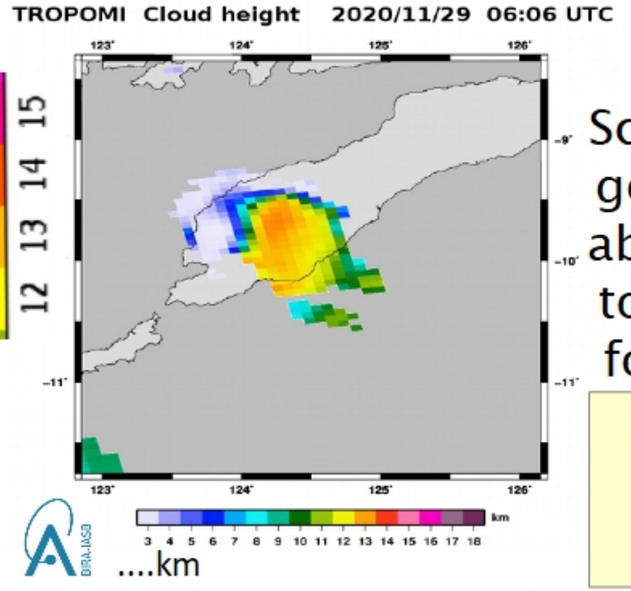
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Investigation on flight level contamination using volcanic SO_2 plume and cloud top height from satellite products

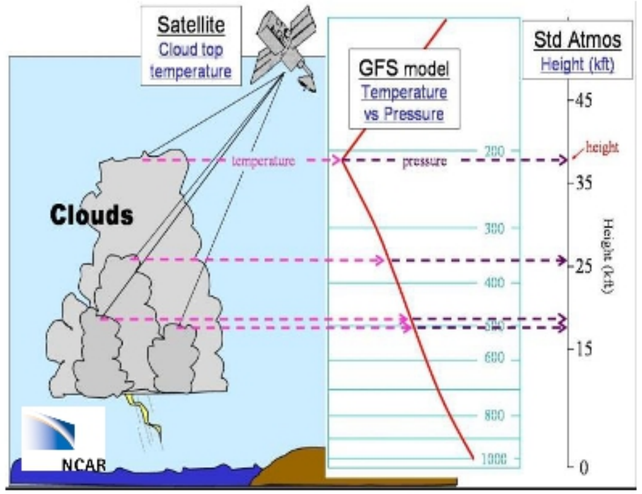
Airplanes follow defined levels of atmospheric pressure measured in feet, not geometric heights above ground. Standard flight level (1000 ft) are used in aviation.



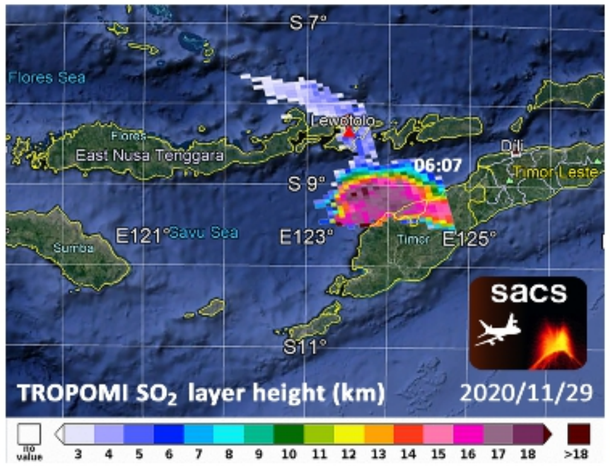


Science satellite output is geometric height of clouds above ground. Conversion to flight levels is needed for aviation use.

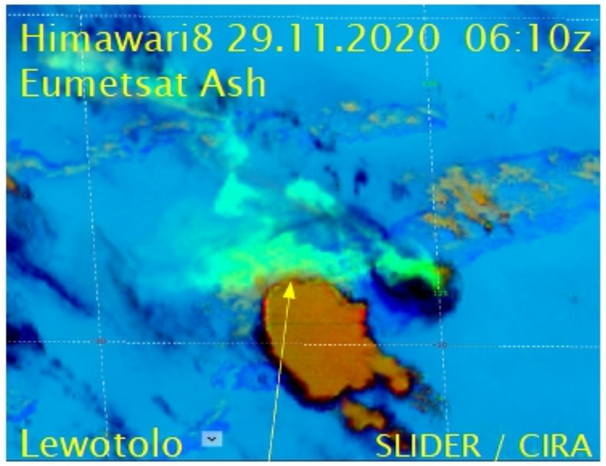
Minimum FL of SO_2 determined by comparison to water/ice cloud top FL

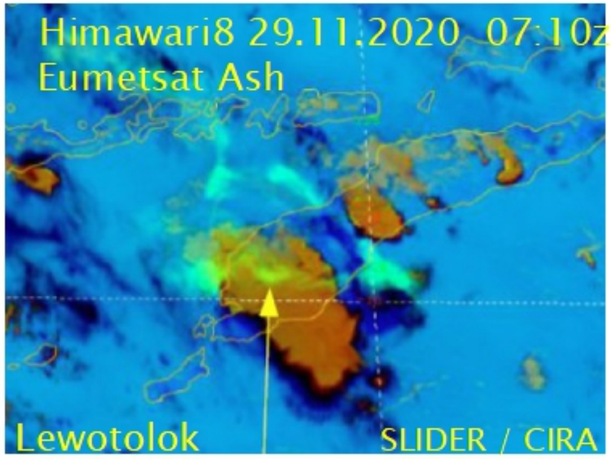


Cloud height: NCAR ...flight level



....km





Brown water/ice cloud top is FL 420–440 / 13–14 km, SACS SO_2 cloud top is FL 500+ /16–17 km

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