



ICAO NAIROBI

UNITING AVIATION

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Regional Awareness Seminar on AFI ATM VACP

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Volcano observatories

- There are approximately 560 volcanoes world wide for which there is evidence of an eruption during the past 500.
- Only about 170 active volcanoes are under continuous surveillance by volcano scientists



Annex 3 Provision

Annex 3 para 4.8 provides that “the occurrence of pre-eruption volcanic activity, volcanic eruptions and volcanic ash cloud should be reported without delay to the associated air traffic services unit, aeronautical information services unit and meteorological watch office..”



Designation of Selected VOs

- Should have a monitoring system
- Should be able to send information to ACCs, MWOs and VAACs
- Number in ANP/FASID should be optimum
- Inclusion should be consultation with corresponding VAAC.



Volcano observatories in AFI region

1	Cameroon
2	Cape Verde
3	Comoros
4	RDC
5	Eritrea
6	Ethiopia
7	France (La Re Union)
8	Kenya



Action by Volcano Observatory

Annex 3, paragraph 3.6 requires that selected State volcano observatories should send volcano information to associated **ACC**, **MWO** and **VAAC**,



Action by Volcano Observatory

The information should be sent when observing;

- a) Significant pre –eruption activity
- b) a volcanic eruption, or cessation thereof
- c) Volcanic ash in the atmosphere

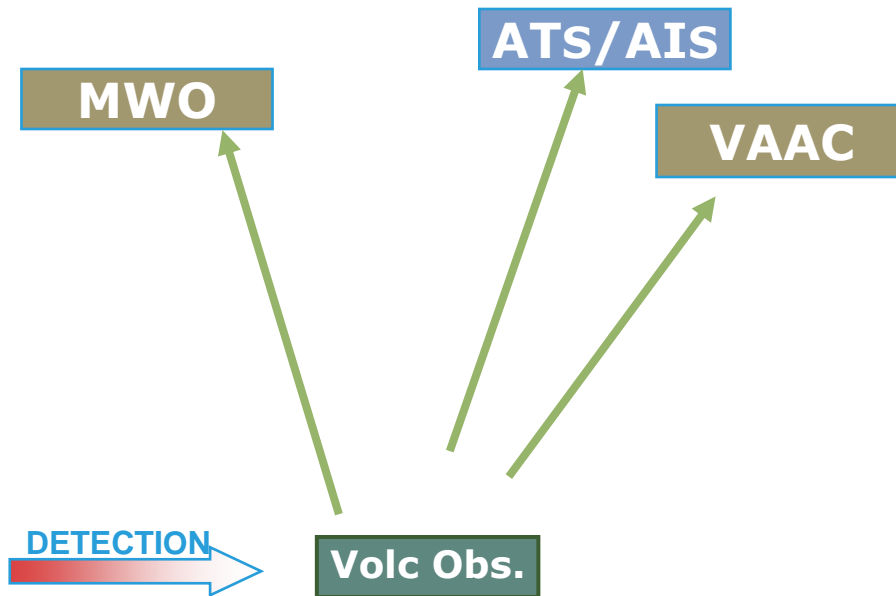
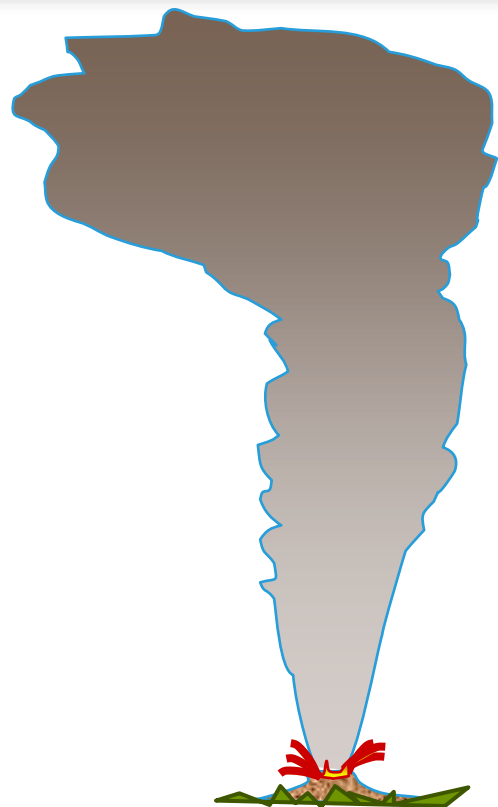


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- The ability to provide an advanced warning of an imminent eruption and the onset of the eruption rests with the VOs which are loosely organized under the banner of the World Organization of Volcano Observatories (WOVO) of the International Union of Geodesy and
- Geophysics (IUGG).



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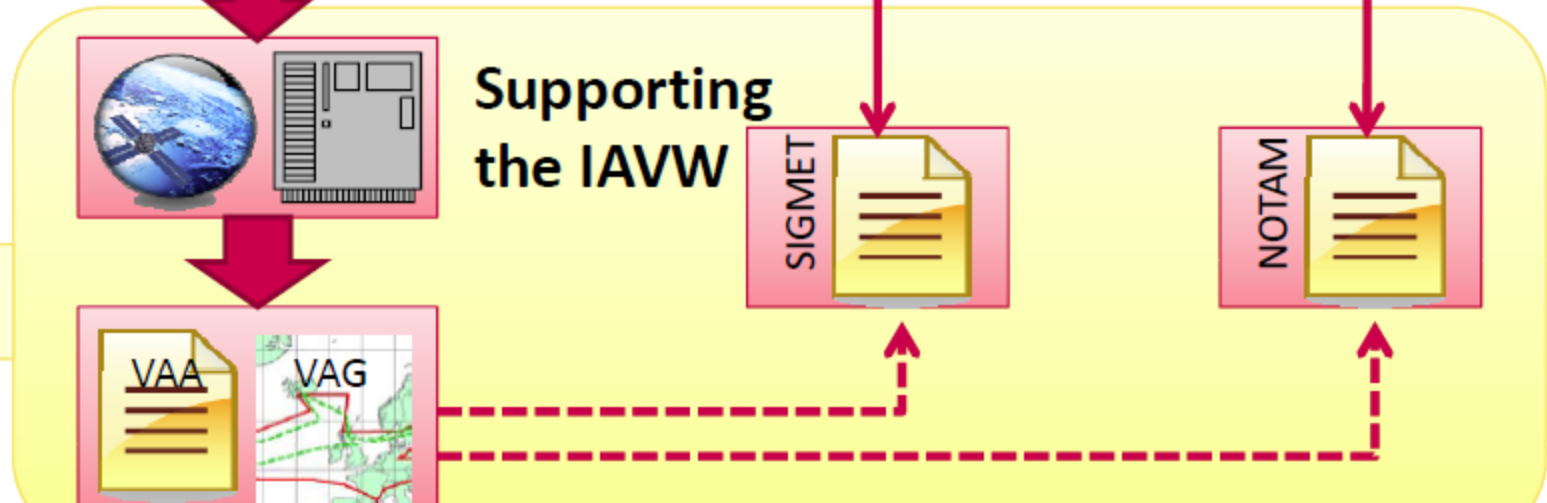
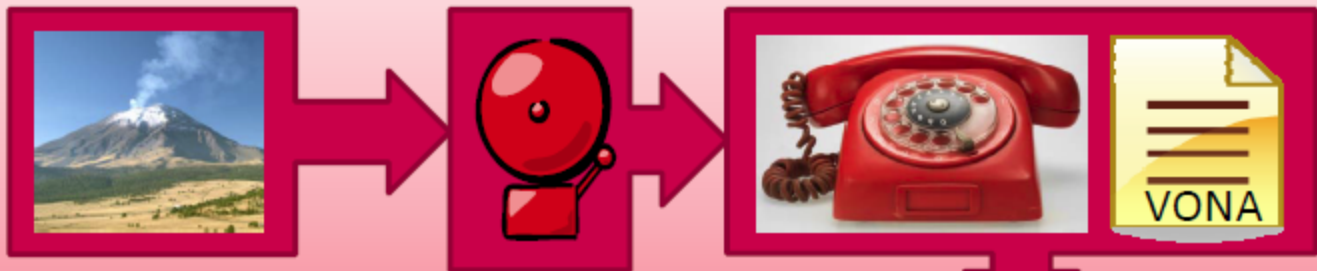
Pre-eruptive activity may come from several sources, including, but not necessarily limited to:

- seismic monitors, physical observations of deformation, hydrologic activity, gaseous activity,
- steam explosions, or debris flow



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Information should be in accordance with
VONA format



Can I fly?







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Lima

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Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU