Services & Products of Tokyo VAAC



Jun Ryuzaki 30 October, 2012 FPAW in Orlando Tokyo Volcanic Ash Advisory Center Japan Meteorological Agency



Area of Responsibility

VOLCANIC ASH ADVISORY CENTERS - AREAS OF RESPONSIBILITY





"Busiest" VAAC in the World?





Operational Efforts of JMA



- Dedicated VA forecaster (since 2011)
- Close collaboration with JMA volcanologists
- Semi-Automated operating system with GUI



Tokyo VAAC operations room in Tokyo, JMA HQs



Information Flow of VAA





Additional VA Products (Example)

- Volcanic Ash Graphic Information (VAGI)



INDICATED AIRWAYS ARE FOR REFERENCE ONLY



Experimental VA Product

- "Volcanic Ash Dispersion Chart for Mt. Sakurasima & Mr. Kirishimayama"
 - Assuming Eruption of 2 very active Volcanoes
 - Forecast up to 3 hours later, 3 hourly updated
 - Ash Dispersion and Deposition from the two volcanoes
- Help Air Traffic Controllers, Airline Dispatchers, and Aircraft pilots;
 - Immediate response to mitigate risk of VA encounter
 - Consider possibility of VA fall over airports nearby
- Now under Evaluation by Users
 - Started since 29 July, 2010



Experimental VA Product



Tokyo Volcanic Ash Advisory Center Japan Meteorological Agency

TOLIVO VAL

G

3

Further Development



- Deposition Area will be directly forecasted
 - by JMA's future VA deposition prediction model



Future Improvement in Observation Field

- New MET Satellite will be launched in 2015
 - Multi-Channel Sensors equipped
 - Rapid Scan (every 10 minutes)
 - High Resolution (1km)



Ground Radar Observation for VA

- VA Height and Vertical Profile can be obtained







10 Tokyo Volcanic Ash Advisory Center Japan Meteorological Agency

Further Efforts...



- Enhance collaboration with Anchorage VAAC
 - Use of collaboration tool (being discussed)
- Establish ment of back-up procedure
 - With Darwin VAAC (Australia)
 - Routine exercise also will start soon
- Improve harmonization between VAACs
 VAAC Best Practice Seminar
- Enhance contribution to scientific groups
 - WMO VA Scientific Advisory Group (VASAG), the other related seminar/workshops



Thank you!



