CIVIL AVIATION BUREAU of JAPAN

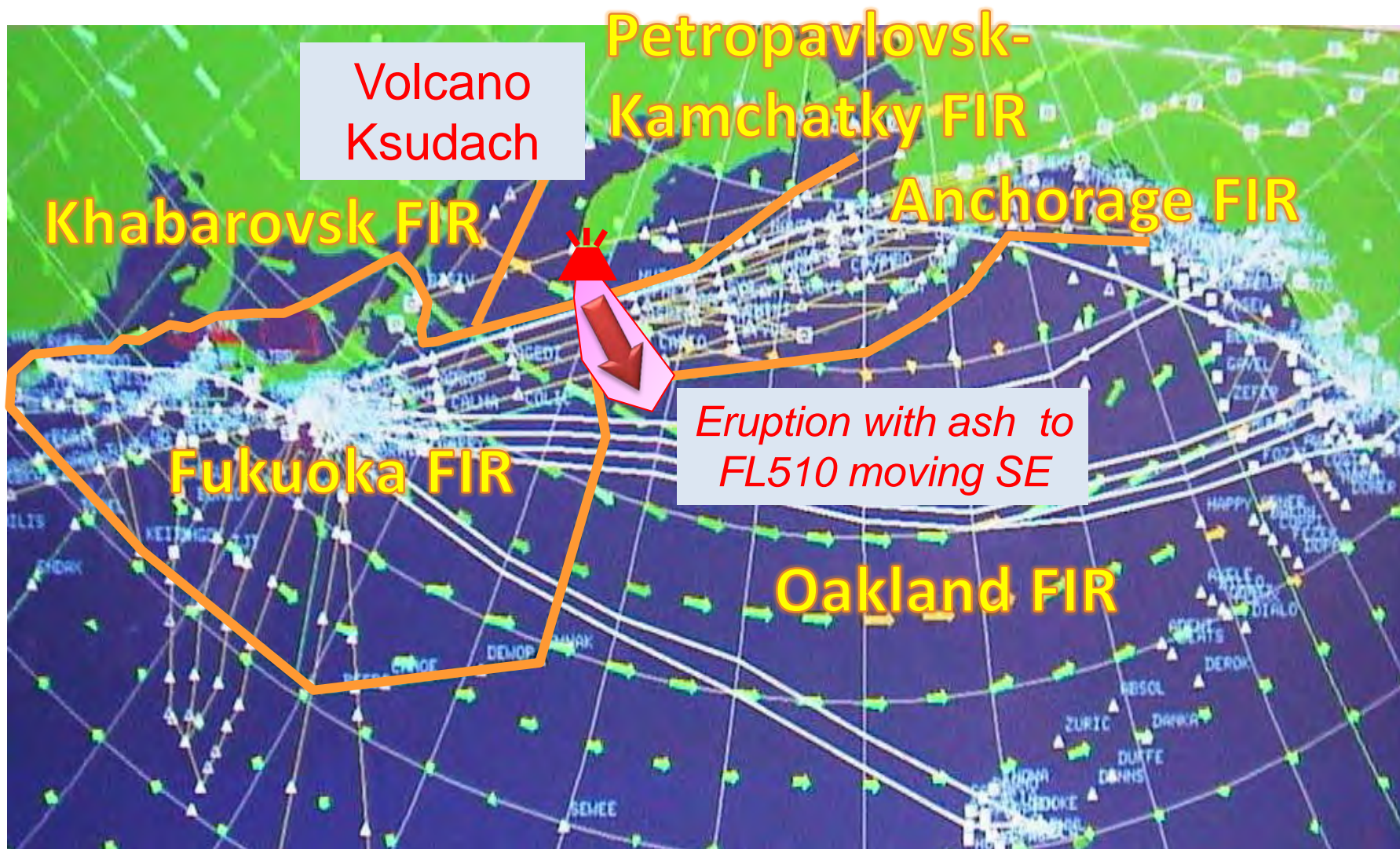# VOLKAM15 Outcomes at JCAB

ICAO APAC VOLCEX/SG/1
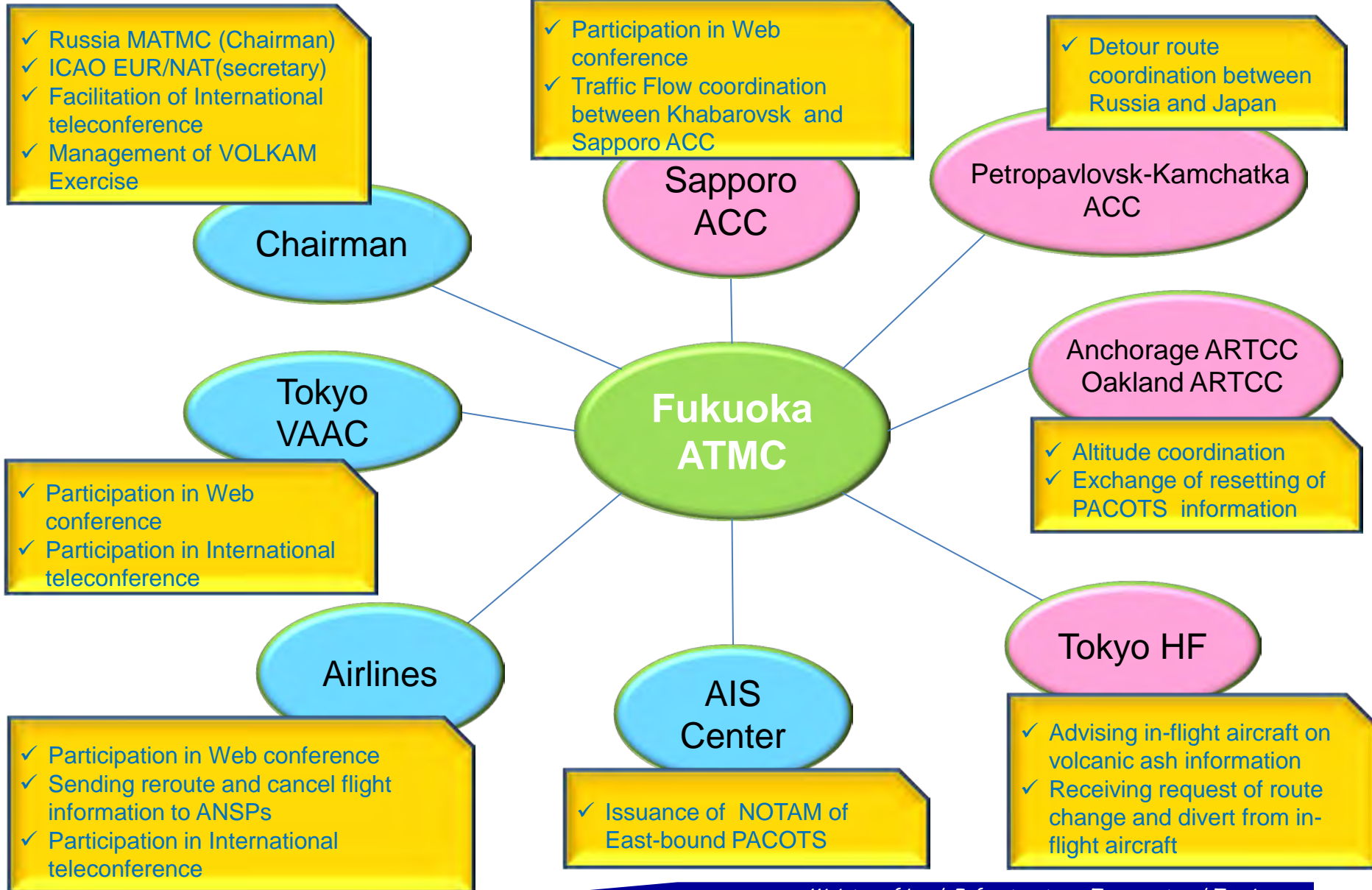
May 27–28, 2015 – Manila, Philippines

Information Sharing and Operational Coordination in ANSP perspective

- ✓ *Teleconference - international*
- ✓ *VOLKAM sheet (Information sharing sheet)*
- ✓ *Web conference - domestic*
- ✓ *VA advisory to aircrafts*
- ✓ *AIREP (Air Report) from aircrafts*
- ✓ *Flight planning actions (re-routing or cancelation)*
- ✓ *Re-routing and altitude coordination amongst ANSP*
- ✓ *Re-set of PACOTS*

Civil Aviation Bureau of Japan

Exercise Volcano

Volcano Ksudach

Petropavlovsk-Kamchatky FIR

Khabarovsk FIR

Anchorage FIR

Fukuoka FIR

Eruption with ash to FL510 moving SE

Oakland FIR

Correlation Diagram

Civil Aviation Bureau of Japan

Chairman
- ✓ Russia MATMC (Chairman)
- ✓ ICAO EUR/NAT(secretary)
- ✓ Facilitation of International teleconference
- ✓ Management of VOLKAM Exercise

Sapporo ACC
- ✓ Participation in Web conference
- ✓ Traffic Flow coordination between Khabarovsk and Sapporo ACC

Petropavlovsk-Kamchatka ACC
- ✓ Detour route coordination between Russia and Japan

Tokyo VAAC
- ✓ Participation in Web conference
- ✓ Participation in International teleconference

Fukuoka ATMC

Anchorage ARTCC Oakland ARTCC
- ✓ Altitude coordination
- ✓ Exchange of resetting of PACOTS information

Airlines
- ✓ Participation in Web conference
- ✓ Sending reroute and cancel flight information to ANSPs
- ✓ Participation in International teleconference

AIS Center
- ✓ Issuance of NOTAM of East-bound PACOTS

Tokyo HF
- ✓ Advising in-flight aircraft on volcanic ash information
- ✓ Receiving request of route change and divert from in-flight aircraft

Information Sharing

Civil Aviation Bureau of Japan

23UTC
03UTC

+45min

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FVFE01 RJTD 152300
VA ADVISORY
DTG: 20150415/2300
VAAC: TOKYO
VOLCANO: K UD  H 3 050
PSN: N5  1 E    4
A    : RU SIA
SUMM   EV: 1079M
ADVISORY NR: 9999/2
INFO SOURCE: EXERCISE VOLKAM15 MTSAT-2 KVERT
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: EXERCISE ERUPTION AT
20150415/2145Z FL510 EXTD SE
MOV 60KT REPORTED
OBS VA DTG: 15/2215Z
OBS VA CLD: SFC/FL510 N5150 E15740 - N5140 E157
N5125 E15745 –
N5135 E15735 MOV SE 60KT
FCST VA CLD +6 HR: 16/0415Z SFC/FL510 N5330 E158
N4940 E16705 –
N4715 E16510 – N4705 E15955 – N5140 E15725
FCST VA CLD +12 HR: 16/1015Z SFC/FL490 N5400 E
– N4745 E17150 -
N4440 E16815 - N4510 E16005 – N5200 E15655
FCST VA CLD +18 HR: 16/1615Z SFC/FL500 N5455 E
– N4615 E17700 -
N4240 E17220 - N4450 W16015 – N5250 E15630
RMK: EXERCISE VOLKAM15 NIL EXERCISE EXERCISE
EXERCISE
NXT ADVISORY: 20150416/0300Z=
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VAA

VOLKAM sheet

Teleconference
international

Telecon summary

Web conference
domestic

Participants
- ANSPs
- VAAC
- Airlines

Participants
- ATMC/ATC facility
- Metrological agency
- Airlines

Civil Aviation Bureau of Japan

To improve situational awareness, VOLKAM sheet including information of present condition and correspondence was distributed about one-half hour before telecons.

VOLKAM Sheet

Facility name: Fukuoka ATMC

Time \\ Item	Present condition (aircraft operation, phase of eruption, position of volcanic ash etc.)	Estimated correspondence (flow control, reset PACOTS, timing of next forecast etc.)	Remarks
			Fill in your facility name
1st Telecon 2300z	· No influence in traffic flow. · Eruption has weakened. (note: this is an example that meteorological organization issue.)	· Resetting PACOTS is under examination in the south of 38 degrees north. · Next VAA will be issued @ 0000z (note: this is an example that meteorological organization issue.)	· Some aircraft requested VA info in the air.
0045z	· PACOTS reset in the south of 40 degrees north. *Draw a line between each information*	· Domestic flow control *Short sentence*	*Sample*

sequentially

Operational Exercise

Civil Aviation Bureau of Japan

Transfer Exchange between PK ACC and Fukuoka ATMC

Using e-mails not to impact actual operation

Tactical Re-routing in PK ACC and Fukuoka ATMC

Volcanic Ash Advisory to In-flight aircraft (HF and CPDLC)

Air-Report from In-flight aircraft to Metrological Agency

Re-set of PACOTS in coordination with Oakland ARTCC

Altitude coordination with Anchorage and Oakland ARTCC

Civil Aviation Bureau of Japan

✓ *Information sharing was successful achieved through teleconference (international), web conference (domestic) and transmission of VA advisory.*

✓ *VOLKAM sheet was useful to review teleconference and reduce miscommunication, however resulting high workload to participants, hence need to consider improved method such as web-based.*

✓ *Coordination for re-routing and/or cancelation of flights was successful demonstrated through e-mail and commercial phone, hereafter process for revised flight plan needs to be developed.*

✓ *Coordination for re-set of PACOTS was successful achieved, hereafter information provision requires to avoid creating confusion.*
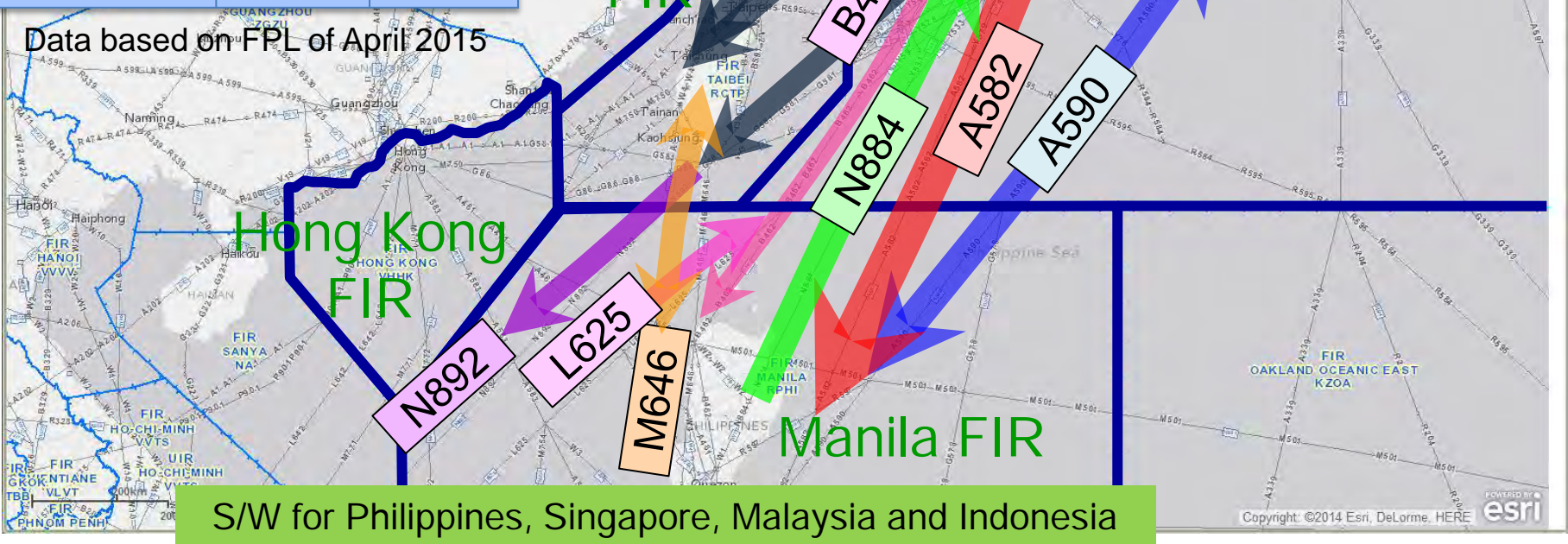
Traffic Flow (for VOLCEX APAC)

Civil Aviation Bureau of Japan

Flights a day

Airway	S/W	N/E
N892	24.9	-
M646	15.8	35.4
B462/L625	3.3	25.1
N884	-	33.2
A582	40.9	-
A590	39.3	16.5

Data based on FPL of April 2015

Incheon FIR

N/E for Japan and Korea

Taipei FIR

Fukuoka FIR

Hong Kong FIR

Manila FIR

B576

A1/M750

G581

B462

N884

A582

A590

N892

L625

M646

S/W for Philippines, Singapore, Malaysia and Indonesia