

Corporate Overview

January, 2018



**SKY Perfect JSAT
Corporation**

Space & Satellite Business

- First satellite launched in 1989
 - ✓ Know-how over 25 years of satellite operation
- Satellite capacity leasing and managed services
- Solid and diverse customer base
 - ✓ Government sector
 - ✓ Public Service Companies
 - ✓ Telcos, Enterprises
 - ✓ Broadcasters
 - ✓ In Japan and other countries

Largest Satellite Operator in Asia



Japan's Largest Multichannel Pay TV Service

There's Excitement In Your Future.
SKY PerfectTV!

- Operation started in 1996
- Pay-TV services through
 - ✓ 3 satellites
 - ✓ Optical Fiber
 - ✓ Over-the-Top VOD
- 3.2 million subscribers
- 200+ Channels (HD/SD/Audio)



Multichannel Pay TV Business



Space & Satellite Business

Top Fixed Satellite Service Operators



(US\$ in millions)

No.	Satellite Operator	Country	Sales (2016)	Satellite in Orbit
1	SES	Luxembourg	2,640	39
2	Intelsat	Luxembourg	2188	42
3	Eutelsat	France	1697	29
4	Inmarsat	United Kingdom	1329	12
5	SKY Perfect JSAT	Japan	446.2 <small>(Satellite business only)</small>	17
6	Telesat	Canada	341	6
⋮	⋮	⋮	⋮	⋮

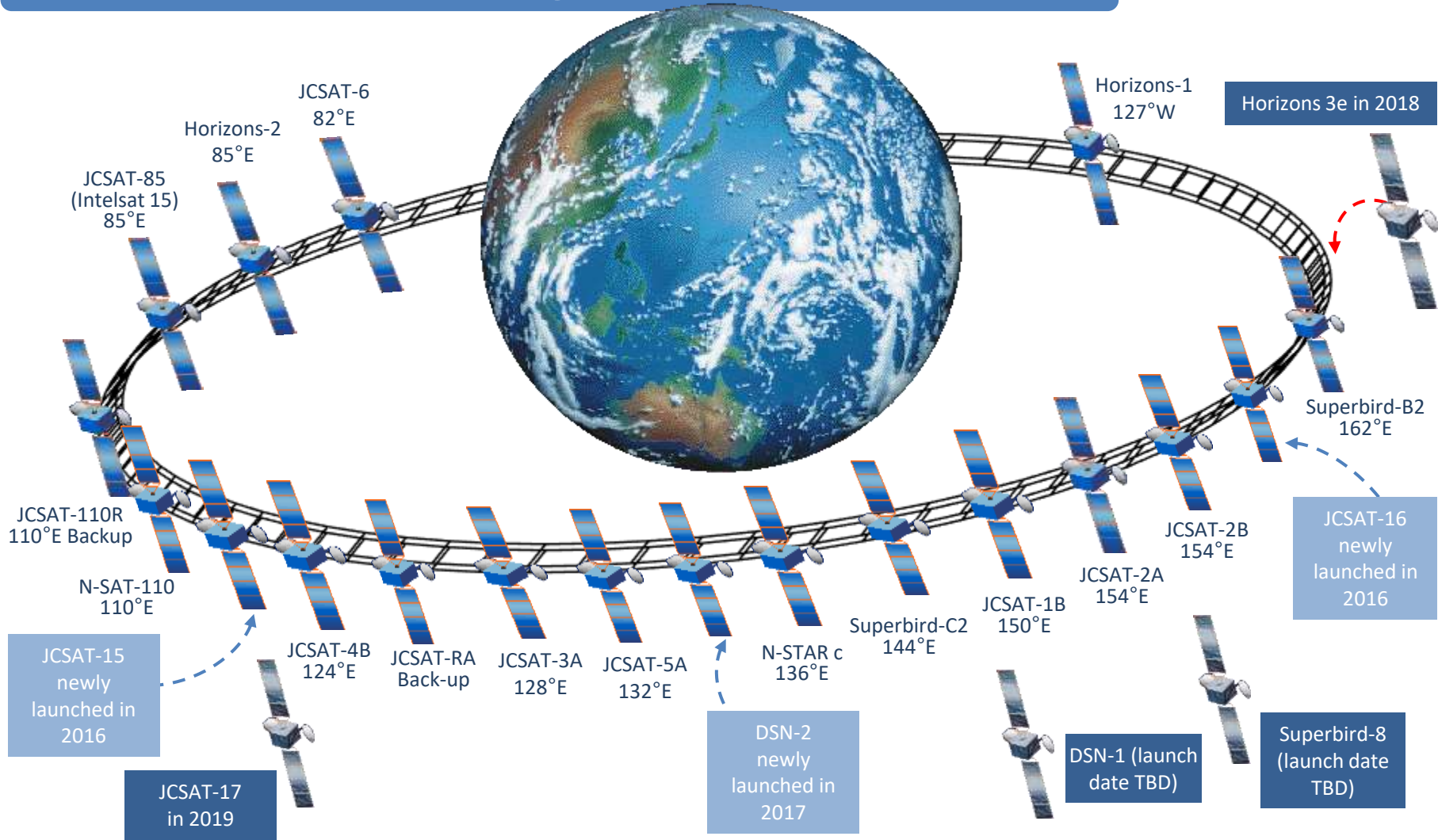
(Source : WEB siteおよびEuroconsult FSS Operators 9th Edition (2016))

- **No.1 satellite operator in the Asia-Pacific region, TOP5 in the world.**
- **Enhanced bargaining power towards satellite manufacturers, rocket companies and insurance companies**

Satellite Fleet



Fleet of 17 satellites, the largest in Asia-Pacific + 3 new





Why we are here?

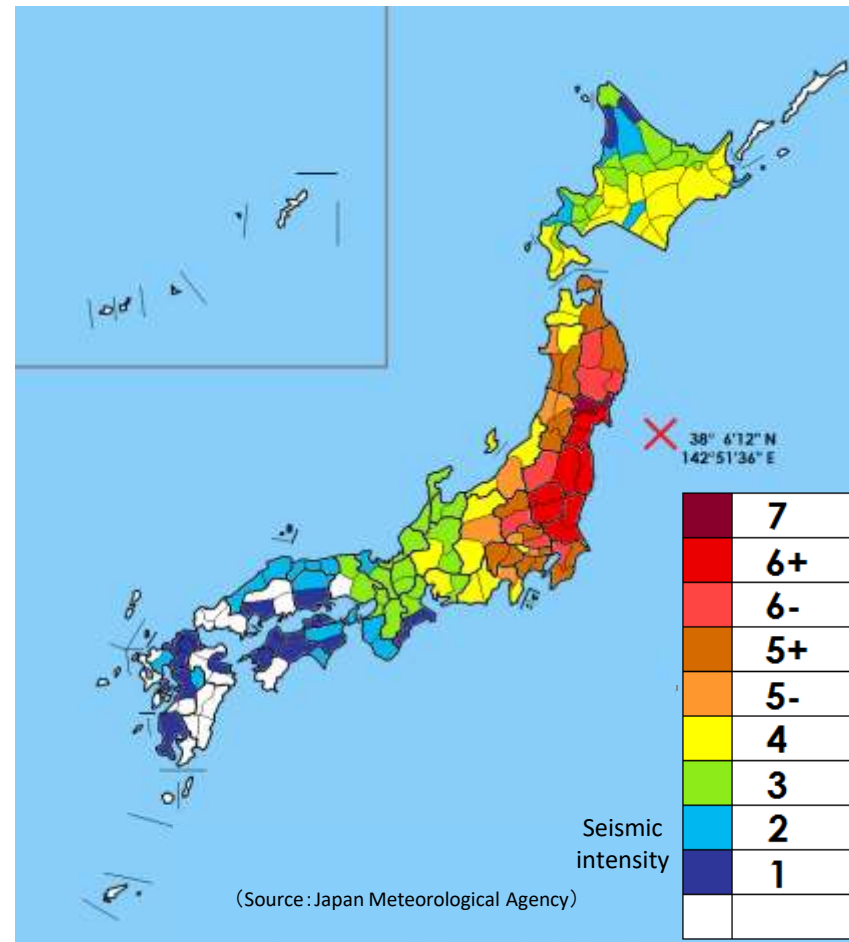
Summary of

the Great East Japan Earthquake and Tsunami



At 14:46 Friday, March 11, 2011, [a magnitude 9.0 earthquake stroked Japan](#), its hypocenter was approx. 130km east of Sendai, the capital of Miyagi prefecture. The tremor triggers a massive tsunami and seriously damages the Tohoku districts. [It was the most powerful known earthquake to have hit Japan, and one of the five most powerful earthquakes in the world.](#)

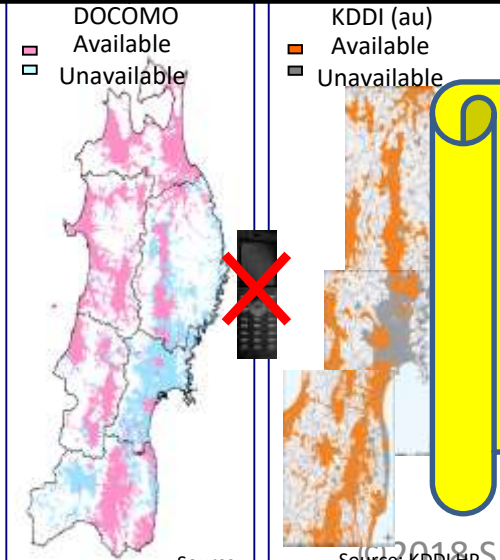
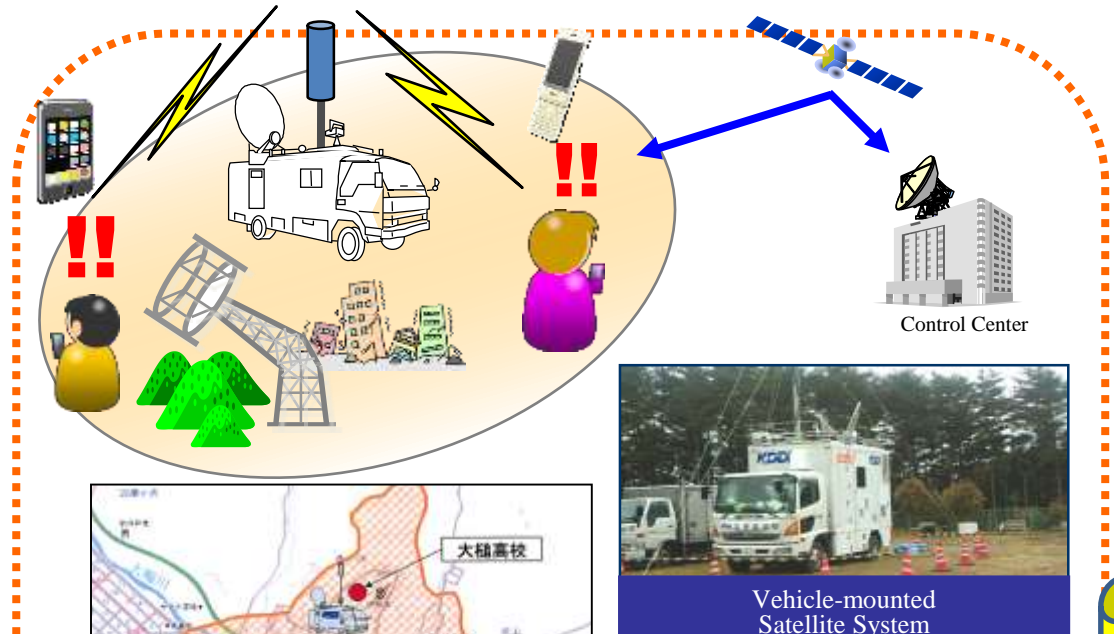
As of May 1 st , 2011	
Date	2011-03-11 14:46 JST 2011-03-11 05:46 UTC
Duration	6 minutes
Magnitude	9.0 M _w
Depth	32km
Tsunami	Maximum 38.9m flooded 807km ² area
Death	15,873 people (2012.11.14)
Missing	2,744 people (2012.11.14)
Destroyed Buildings	350,000+



Damages of Telecommunications

Damages of **Mobile Backhaul**

The number of Deactivated Mobile-Backhaul	
Company	Quantity
DOCOMO	6,720
KDDI (au)	3,680
Softbank	3,786
WILLCOM	13,760

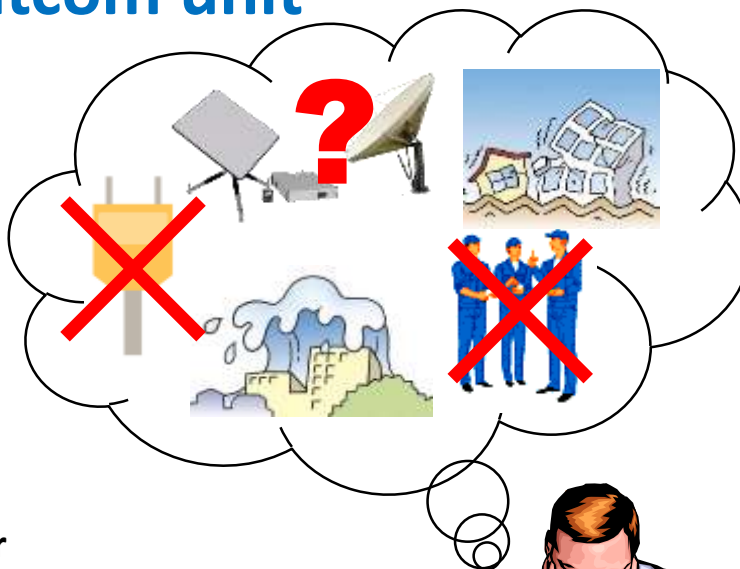


It took about only **One month** to recover the almost area using satellite communication.

- There were power outage more than 800 millions houses after the earthquake;
- It took a long time to be re-stored the Electric Power in Tohoku area;
 - Can NOT operate the satcom equipment.
- There were the planned Electric power outage in Tokyo area in middle of March and Summer season 2011.

① Flexible Power Supply

- New Electrical generators
- Low Electric Power satcom unit



② Automatic satcom Operation

- Auto-Tracking Antenna
- Controlled by Network Control Center

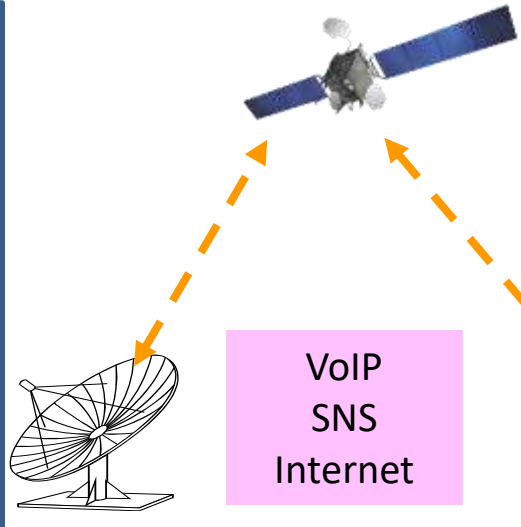
③ Flexible Type of VSAT

- Enable to utilize as Fixed Earth Station as well as Flyaway
- Easy to carry

New type of electric Generator



Continue to power generation under the Typhoon



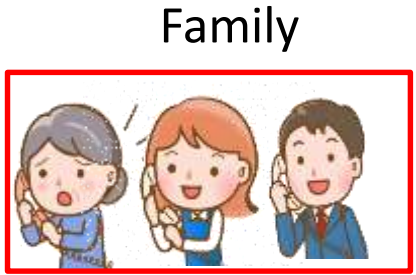
VoIP
SNS
Internet

Anti-disaster resistance and/or portable Generator are required.

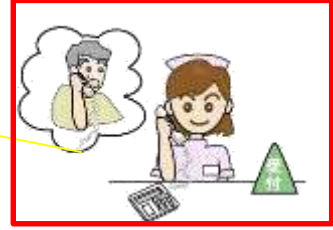
School ↔ evacuation center



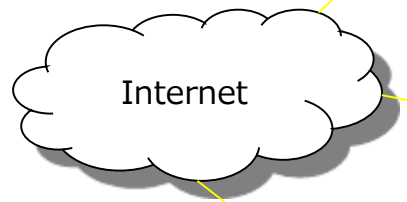
Disaster Situation



Family



Hospital



Internet



Government office

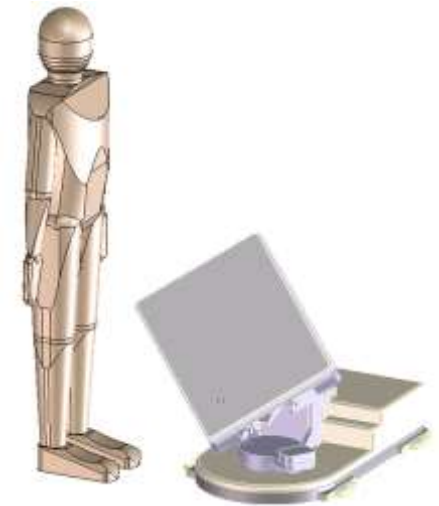
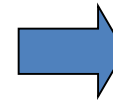
Low power Satcom Units and others



Very thin and light auto tracking antenna

Easy to carry

Easy operation



'Single Button push' only

One push portable satellite terminal

SJC develops the new type of satellite car using Kymeta antenna.



No bulge on the roof



Thank you .



SKY Perfect JSAT Corporation

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Corporation

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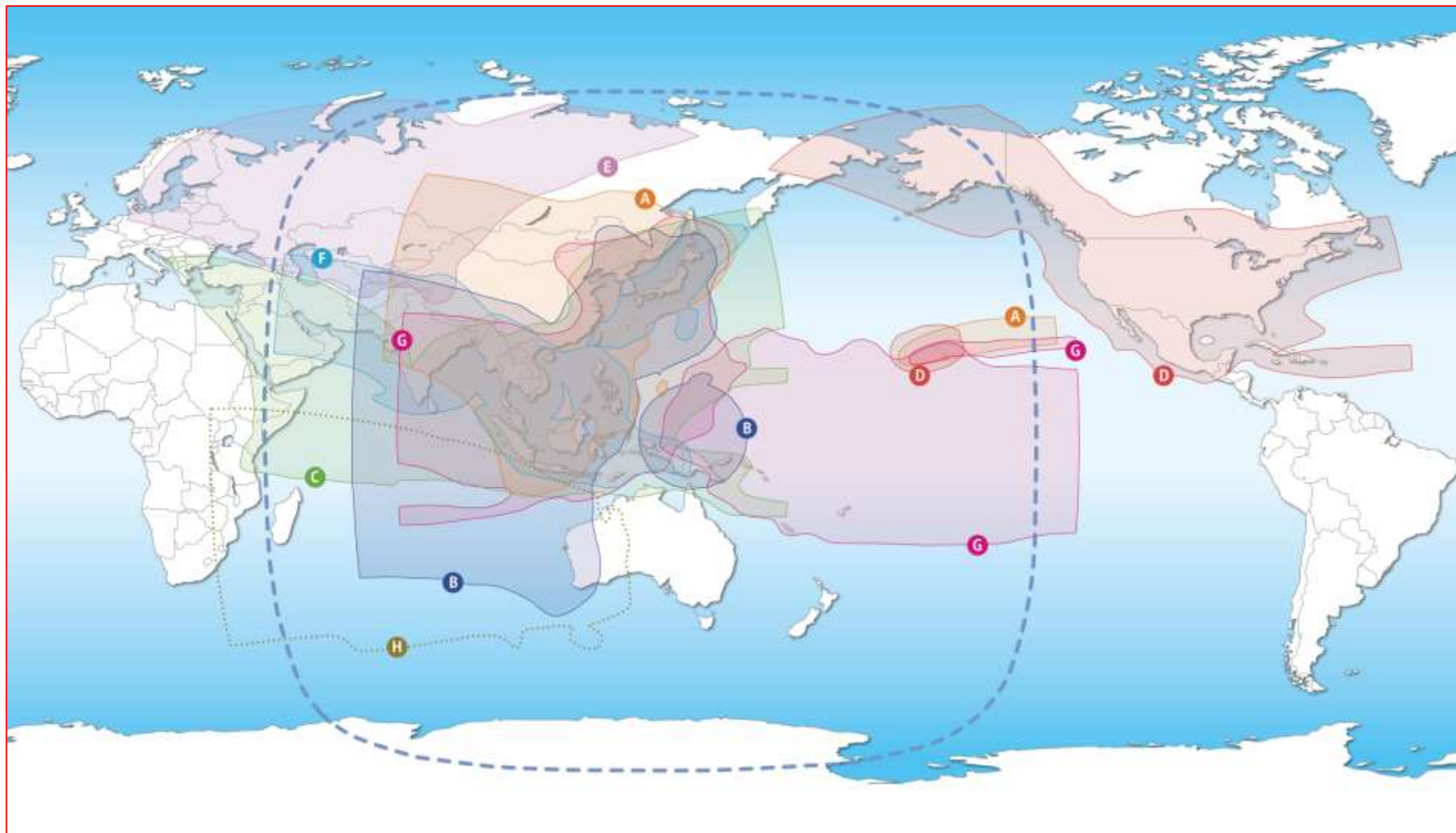
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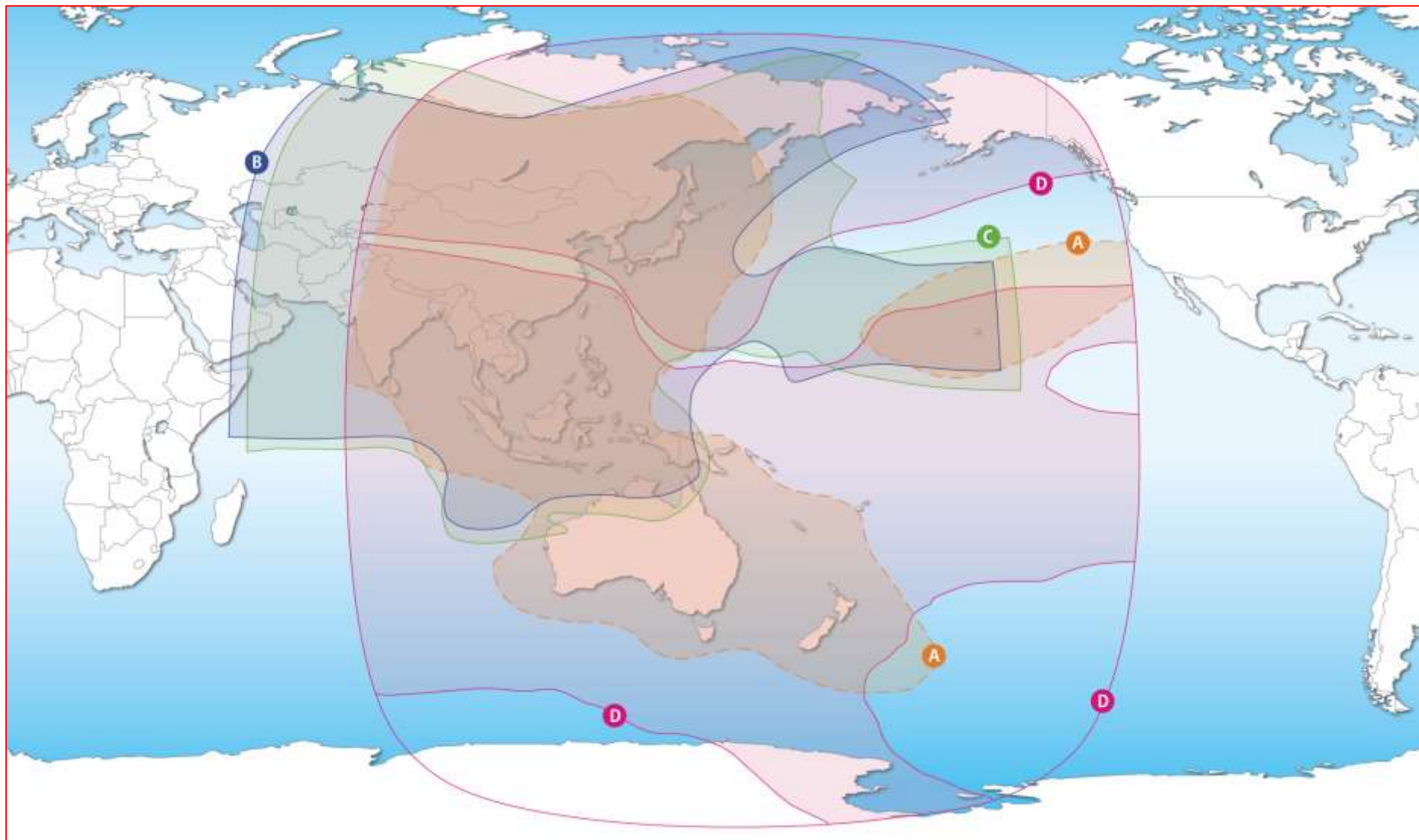
Reference material

Fleet Coverage : Ku-band



- A** JCSAT-1B **B** Superbird-C2 **C** JCSAT-85 **D** Horizons-1 **E** Horizons-2 **F** JCSAT-4B **G** JCSAT-2B **H** JCSAT-110A

Fleet Coverage : C-band



- A** JCSAT-2A
- B** JCSAT-3A
- C** JCSAT-5A
- D** JCSAT-2B