



May 19, 2016

Air Navigation Services Department
Civil Aviation BureauNew route for small aircraft which can take a flight even in bad weather

～ We support search and rescue activities by helicopters ～

On May 26, 2016, MLIT will officially start to operate a new RNAV route set at a low altitude separately from usual RNAV route at a high altitude for large aircraft, which enables small aircraft to take a flight between Oshima Island and Hachijyojima Island.

This will help small aircraft to take a safe and reliable flight for search and rescue activities even in bad weather.

The Committee for Promoting Renovation of the Air Traffic System (CARATS Steering Committee) chaired by Mr. Tetsuo Yai, Professor, Graduate School of Engineering, Tokyo Institute of Technology has been studying the establishment of next-generation air traffic system including an issue of enhanced convenience and safety of small aircraft (mainly helicopters) which can actively participate in various activities such as search and rescue, disaster relief operation and lifesaving.

In response to this, with a view to enable small aircraft take a safe and reliable flight even in bad weather, a new flight route employing RNAV system (*) (RNAV route) was set and its trial operations have been conducted since May 29, 2014.

This is to announce that official operations will start as below, as a result of the evaluation of the trial operations and deliberations with operators.

This should be a help to undertake prompt search and rescue activities in Izu Island chain specifically. Also, further introduction to other areas will be considered.

1. Starting date of operations: May 26, 2016 (Thursday)
2. Route: Between Oshima Island area and Hachijyojima Island area (See Exhibit1)

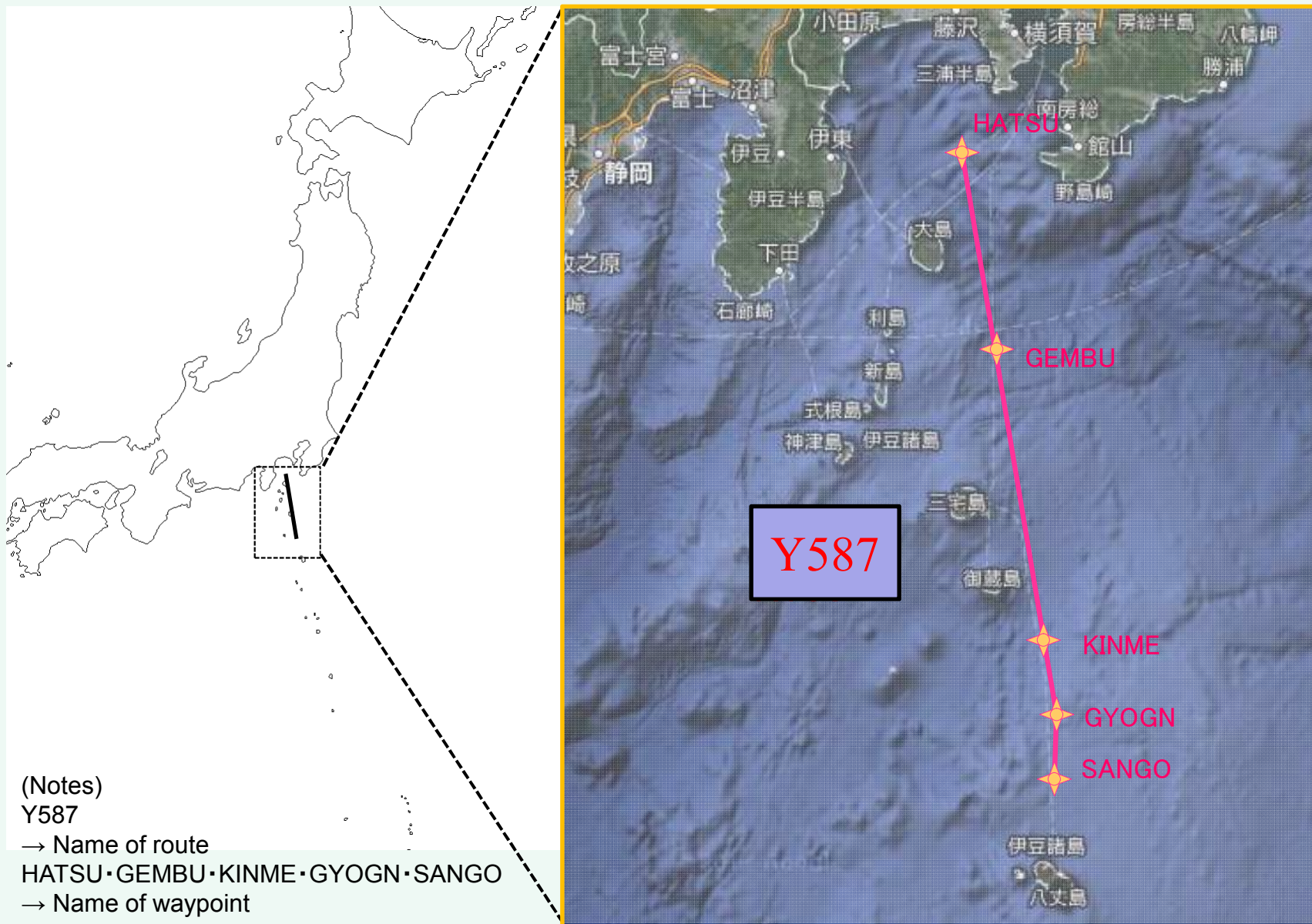
(*) RNAV system: Area navigation which utilizes ground based radio navigation aids and GPS to realize a flight on a flexible route (See Exhibit2)

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【RNAV route operations to officially start】

Exhibit 1

Operations to start on 26 May, 2016



(Notes)

Y587

→ Name of route

HATSU・GEMBU・KINME・GYOGN・SANGO

→ Name of waypoint

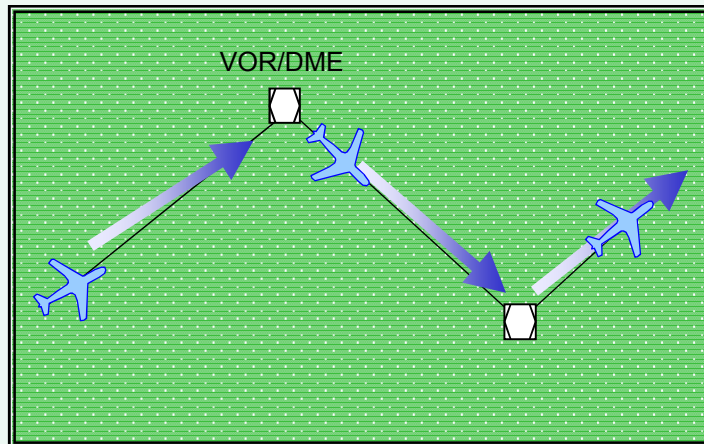
【Navigation principle of RNAV】

Exhibit 2

The RNAV (Area Navigation) is a navigation system capable of flexible flight setting that is free from the constraints caused by the location of ground-based radio navigation aids such as VOR/DME. The system utilizes the advanced navigation capabilities of modern aircraft made possible by employing high-performance FMS (Flight Management Systems). The system significantly mitigates the physical limitations of flight route setting.

It is expected that this system enables to shorten flight routes, avoid congested airspace and fly at a low altitude, thereby leading to improvement of safety and convenience for small aircraft.

Conventional Navigation

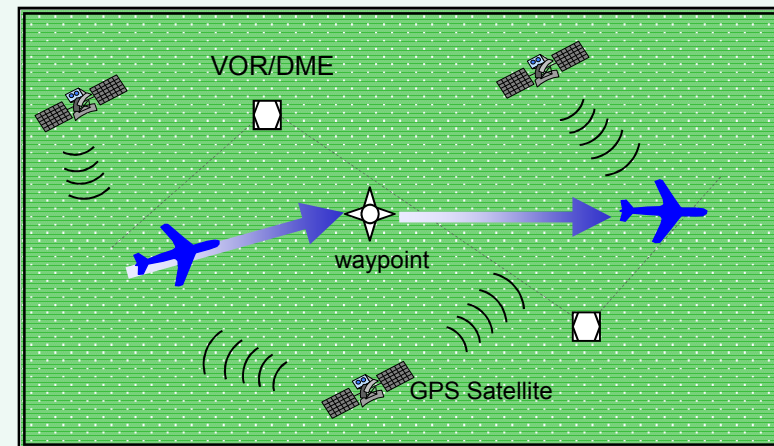


Operation is dependent on navigational equipment and ground facilities such as VOR/DME.

(Sensor Specific Navigation)

VOR: Very-high Frequency Omnidirectional Radio
Beacon Range
DME: Distance Measuring Equipment

RNAV (Area Navigation)



Operation is dependent on Navigation specification.
(Performance Based Navigation)