



Date : 27th Dec 2019

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Re: Pre-Notification for Korea ECA

Dear Sir,

With reference to the subject matter, we would like to give you the pre-notification of Korea ECA as follows:

Matching the recent changes in the environment preservation such as ECA designated by IMO, the Ministry of Maritime Affairs and Fisheries (hereafter MOF) in South Korea has given the plan with related law called **"the special Act on Improvement of Air Quality in Port Areas, Etc."** on 2 April 2019 and then, has taken the necessary steps to establish relative regulations in all Korean ports so far, with enforcing the Act starting from 1 Jan 2020. Finally Korean government passed this Act in the Cabinet meeting on 17 Dec 2019 and the Act will be officially effective from 1 Jan 2020.

Under **"the special Act on Improvement of Air Quality in Port Areas, Etc."**, the government newly designated the major Korean ports as "the areas for air quality control" and also, designated "Emission Control Areas (ECA)" & "Vessel Speed Reduction Program" within those areas for air quality control, in order to reduce the fine dust from ocean going ships in Korean ports from the next year of 2020.

- Korea ECA to take effect on 01st Sep 2020(Aiming date)

As you are well aware of, in line with IMO 2020, from 1 January 2020, the limit for sulphur in fuel oil used on board ships operating outside designated emission control areas will be reduced to **0.50% m/m** (mass by mass). This will significantly reduce the amount of sulphur oxides emanating from ships and should have major health and environmental benefits for the world, particularly for populations living close to ports and coasts.

* Designated emission control areas by IMO

- Emission Control Areas (ECA) designated under regulation 13 of MARPOL Annex VI (NOx emission control)

- Emission Control Areas (ECA) designated under regulation 14 of MARPOL Annex VI (SOx and particulate matter emission control)

Likewise ECA designated by IMO, MOF in South Korea announced **Korea ECA to take effect from 1 Sep 2020** under the Special Act on the Improvement of Air Quality in Port Areas, Etc. & Marine Environment Management Act in Korea as follows:

*** Korea ECA: Major 5 Korean Ports Areas**

- Incheon area
- Pyeongtaek & Dangjin area
- Yeosu & Gwangyang area
- Busan area
- Ulsan area

[\(Please kindly refer to the attached layout for your easy reference\)](#)

● The relative Acts & subordinate statute for this restriction

* Summary of Article 10 of the Special Act on the Improvement of Air Quality in Port Areas, Etc.

Article 10. (Designation of Korea ECA)

- ① ECA can be designated by the Ministry of Maritime Affairs and Fisheries.
- ② Ship Owners are not allowed to use fuel oil whose Sulphur contents is over the limitation set by Presidential Decree. : Provided, That the same shall not apply where the quantity of sulfur oxide emissions is reduced to below the permissible emission level of sulfur oxides prescribed by Ordinance of the Ministry of Oceans and Fisheries, with the mounting of an exhaust fume-filter meeting the criteria set by Ordinance of the Ministry of Oceans and Fisheries.
- ③ In case of ship's navigating inside of Korea ECA, Ship Owners should record the switch of fuel oil, etc. on engine logbook.
- ④ Ship Owners should keep engine logbook onboard for the period of time set by Presidential Decree.
- ⑤ Ship Owners should keep the written procedure of measurements on switching fuel oil after/before navigating Korea ECA.

* Summary of Article 42 of Enforcement Decree of The Prevention of Marine Pollution Act.

Article 42 (Sulfur Content Standard of Fuel Oil)

- ① "Sulfur content standards prescribed by Presidential Decree" in Article 44 (1) of the Act means any of the following:
 1. Sulfur content of light-oil shall be not less than 0.5% (weight percent); provided, however, that, in the event of a vessel which navigates only within territorial waters and exclusive economic zones under the provisions of Subsections 1 and 2 of Article 3 (1) of the Act, it shall be not less than 0.05% (weight percent); or less
 2. Sulfur content of heavy-oil shall be not less than 0.5% (weight percent).
- ② "Sulfur content standards prescribed by Presidential Decree" in the main sentence of Article 44 (2) of the Act means that the sulfur content contained in fuel oil is 0.1% (weight %)  for Korea ECA

* Limitation set by Presidential Decree: The limit for sulphur in fuel oil used on board ships operating inside of Korea ECA is 0.10% m/m (mass by mass). Thus, Ship Owners should either to switch ship's fuel oil to 0.1% Sulphur fuel (fuel with Sulphur content not exceeding 0.1 percent) or to use alternative ways to reduce sulphur oxides (SOx) emissions to 0.10% at Korea ECA starting from 1 Sep 2020.

Please kindly regard this as a pre-notification and so, we would like your esteemed company to take care of this new regulations in Korean ports when your good vessel comes to Korea after from 1 September 2020.

However, should you have any concern or question on this topic, please do not hesitate to contact us at any time

Taking this time, wishing all you & your colleague & family A Happy & Prosperous New Year 2020.

Best Regards

Operation Department of Eastern Shipping Co., Ltd.



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Attachment

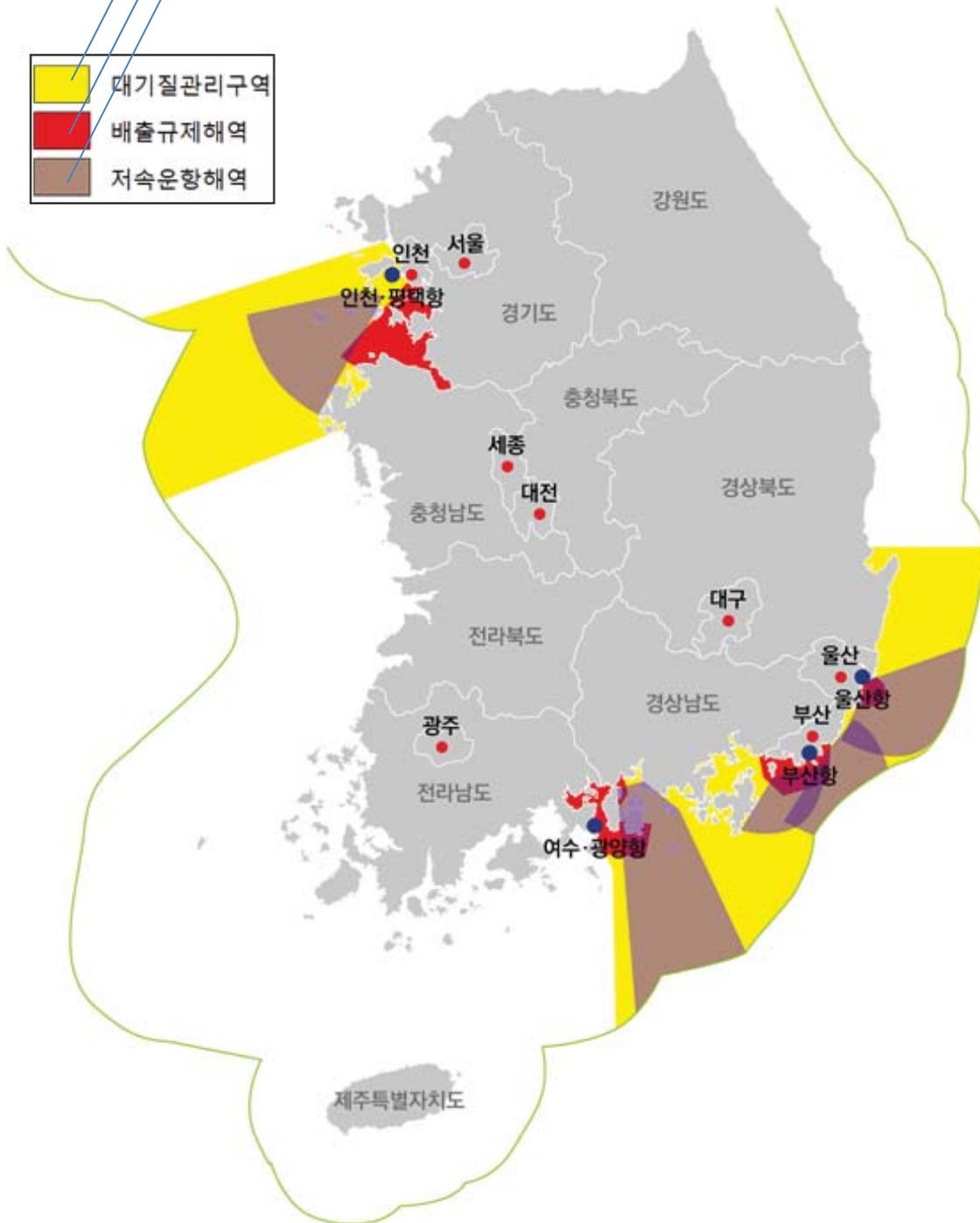
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항만대기질관리구역 / 배출규제해역 / 저속운항해역

“the areas for air quality control”

“Emission Control Areas(ECAs)” for sulfur oxides restriction on sea area”

“Vessel Speed Reduction(VSR) Program



배출규제해역

"Emission Control Areas(ECAs)" for sulfur oxides restriction on sea area"

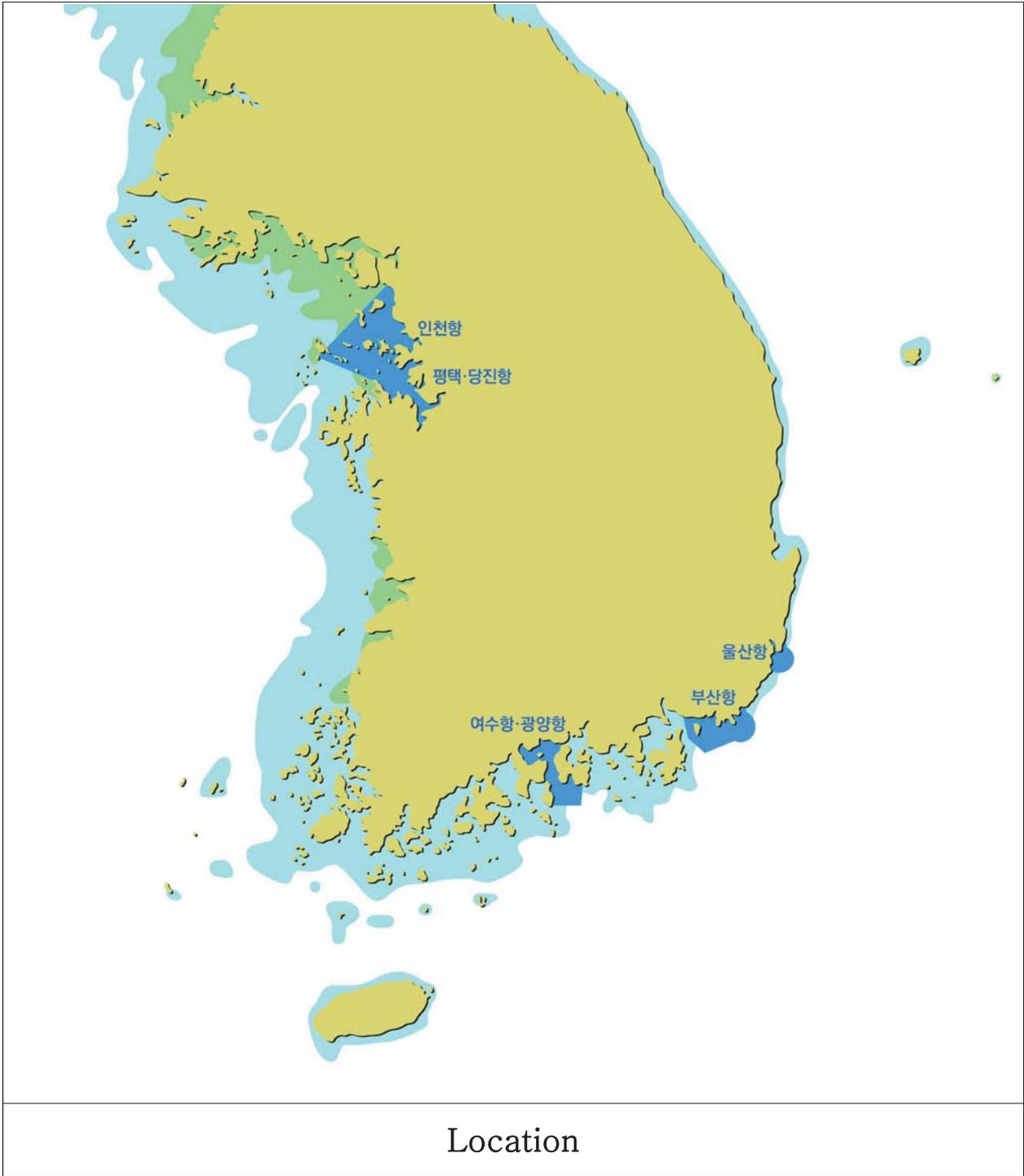
Incheon, Pyeongtaek, Dangjin	Yeosu, Gwangyang	Busan	Busan (West)	Ulsan
Within the boundary of below points	6 miles from 35°24'37" 129°27'52"			
37°36'00" 126°33'42"	34°35'24" 127°48'20"	35°09'36" 129°11'32"	35°03'19.5" 128°43'23.5"	
37°10'00" 126°06'30"	34°35'24" 128°00'26"	35°09'04" 129°11'44"	34°58'30" 128°45'21"	
37°02'54" 126°29'00"	34°42'42" 128°00'26"	34°58'46" 129°04'14"	34°55'00" 128°50'00"	
	34°56'22" 127°52'06"	34°55'00" 128°50'00"	34°58'41.5" 128°49'19.5"	
	34°56'46" 127°51'56"	34°58'41.5" 128°49'19.5"	35°02'01.4" 128°47'37.8"	
		35°02'01.4" 128°47'37.8"	35°03'19.5" 128°43'23.5"	
		35°03'19.5" 128°43'23.5"		
		35°05'42" 128°42'53"		

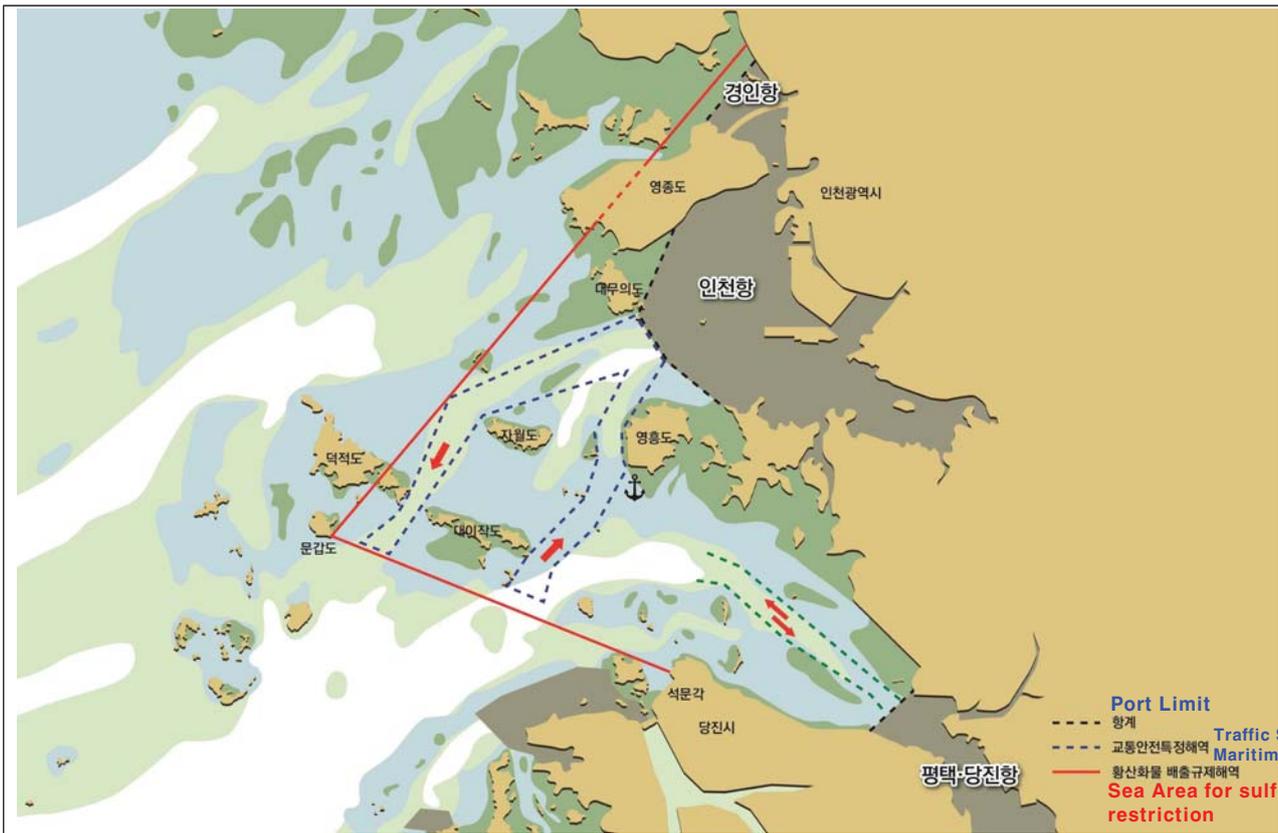
- From 1st of Sep. 2020 : Mandatory to use 0.1% Sulphur contents fuel while at berthing.

Timeframe for the sulfur oxide emission control area (Berthing or Anchoring vessel)

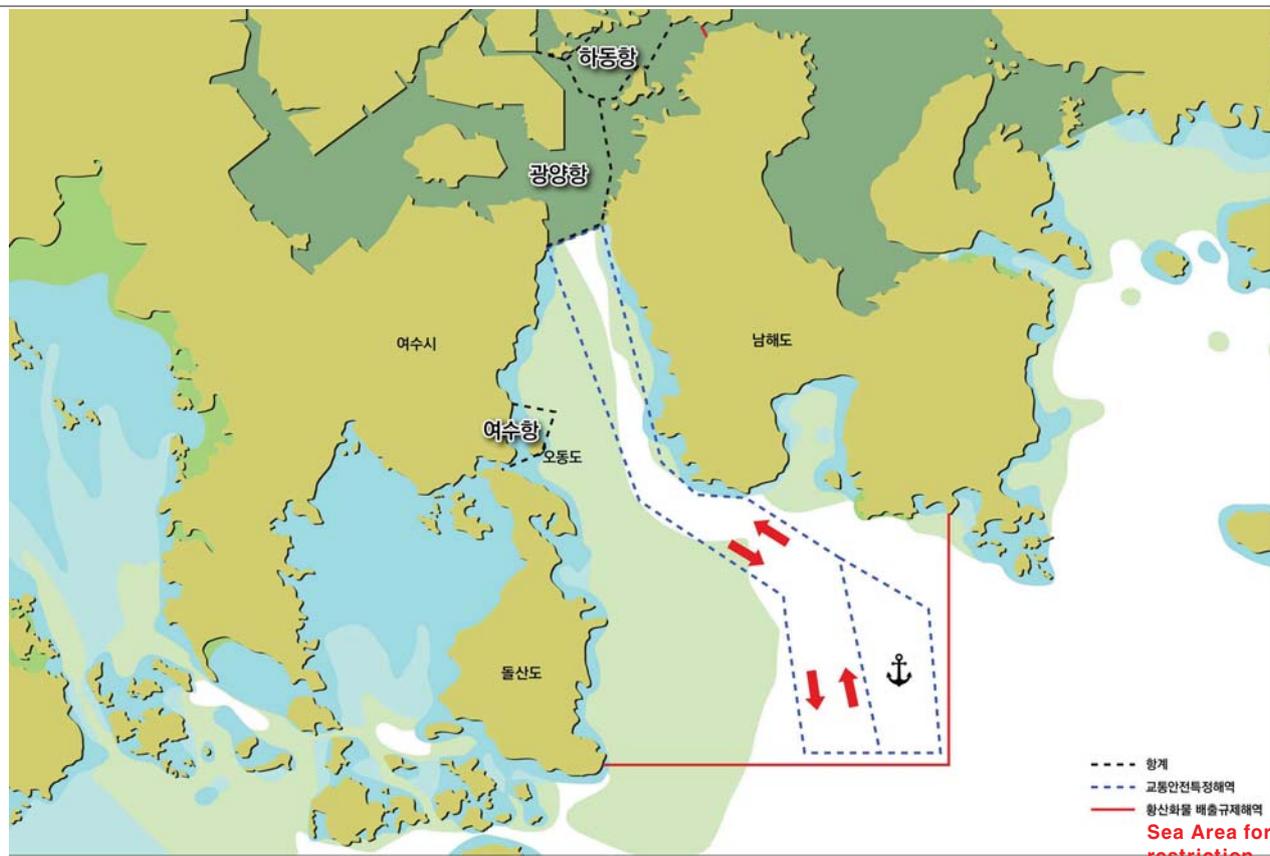
- Berthing vessel : 1 hour after completion of berthing until 1 hour before de-berthing time.
- Anchoring vessel : 1 hour after completion of anchoring until 1 hour before heaving up time.

- From 1st of Jan. 2022 : Mandatory to use 0.1% Sulphur contents fuel while navigating ECA.

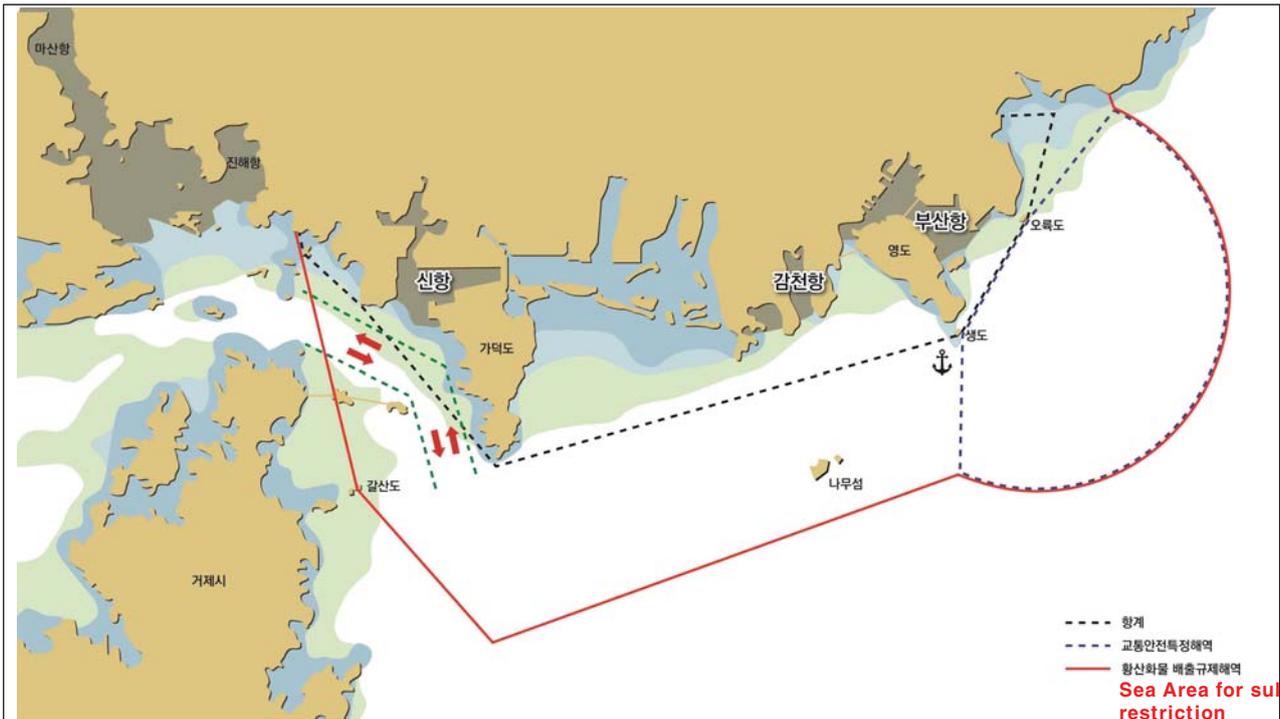




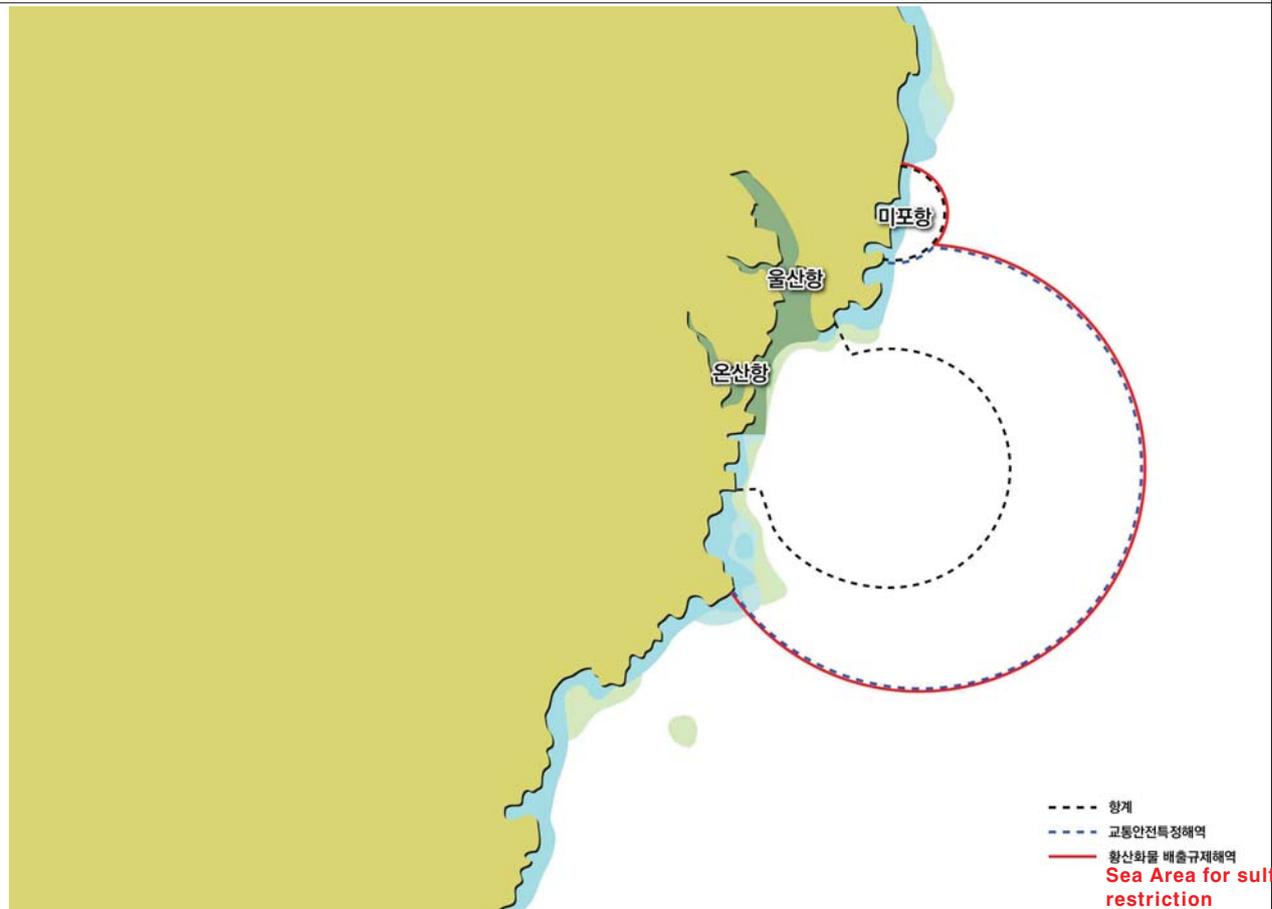
Incheon, Pyoungtaek, Dangjin port



Yeosu & Gwangyang port



Busan Port



Ulsan Port