

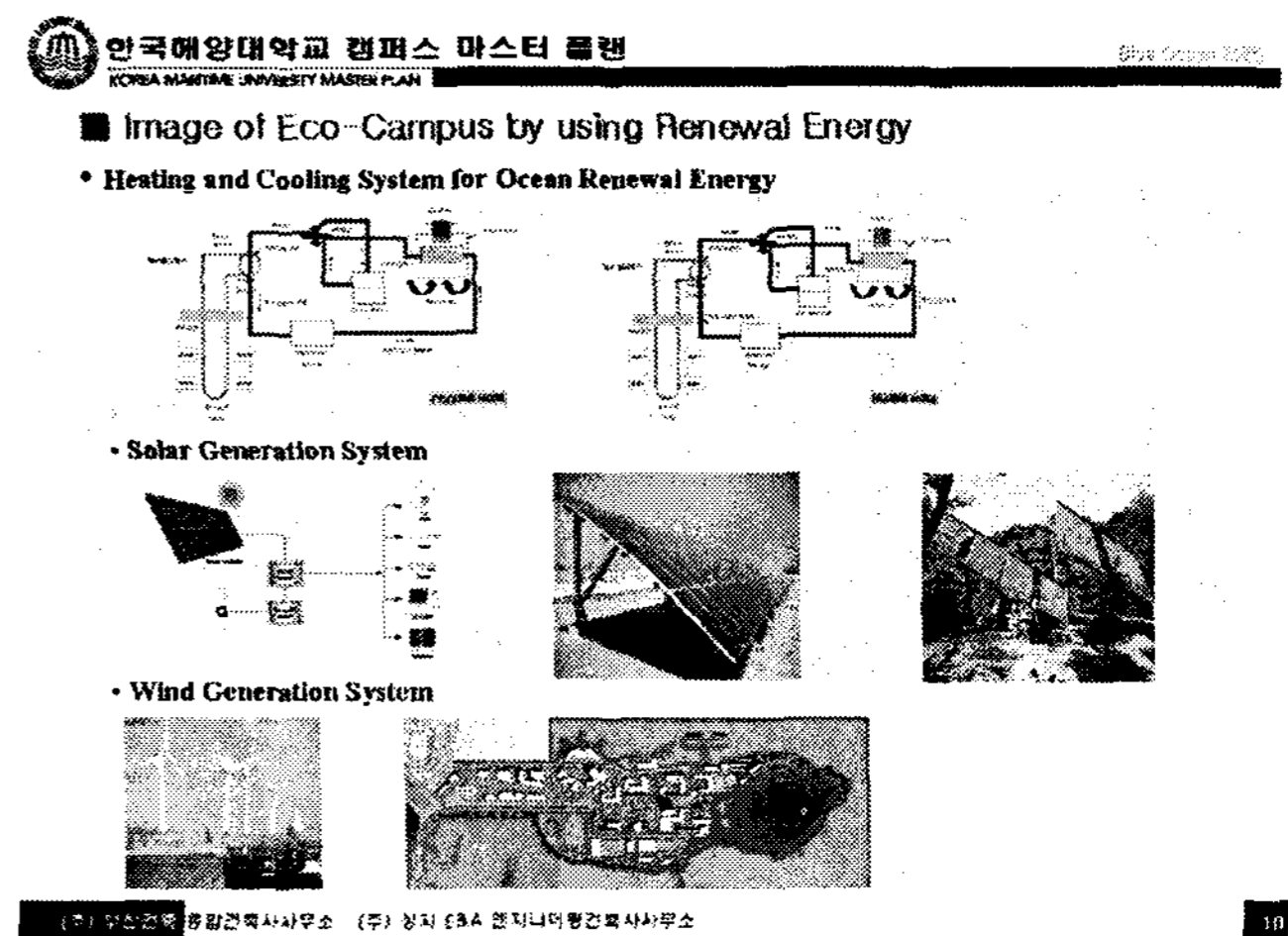
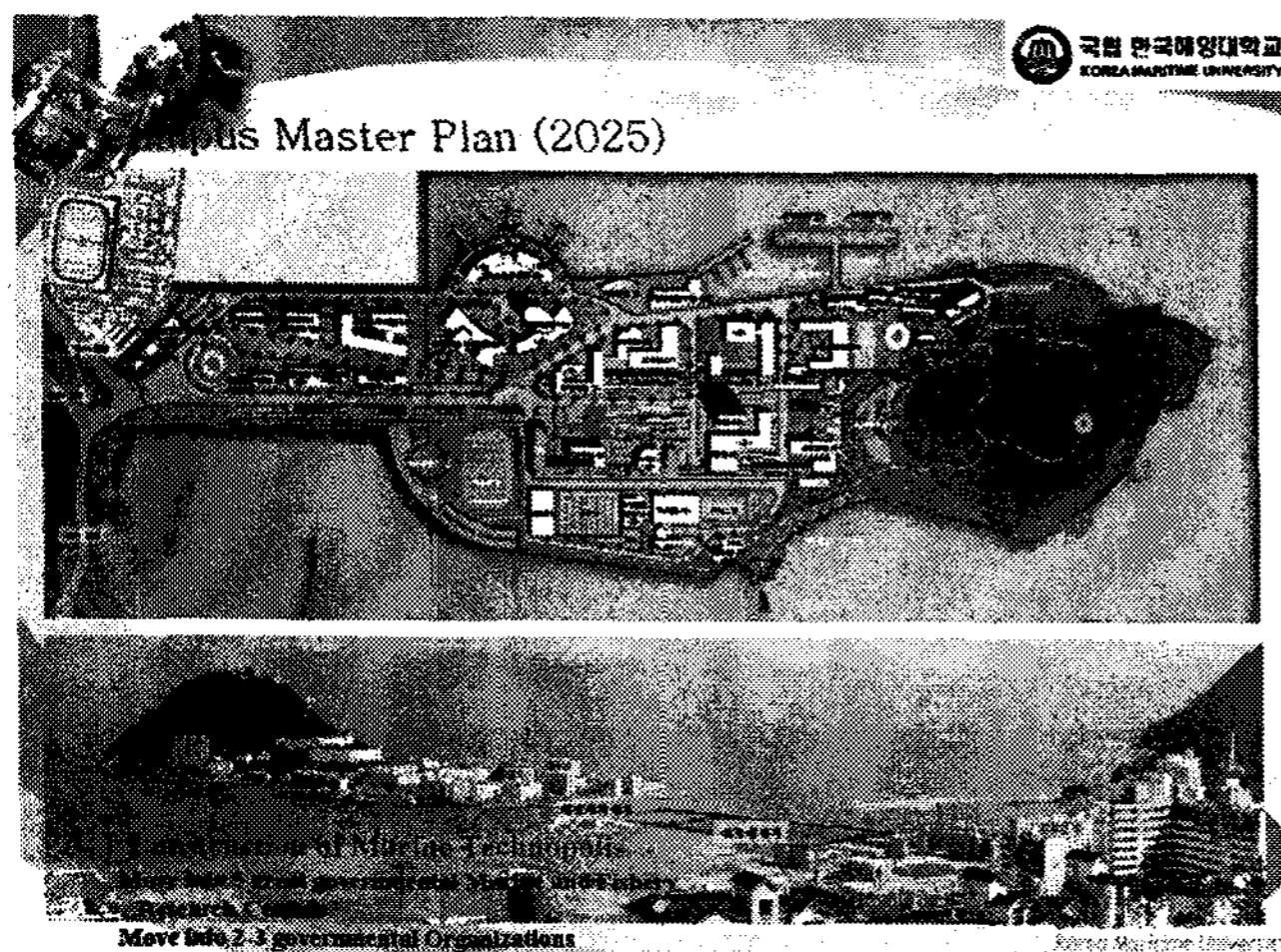
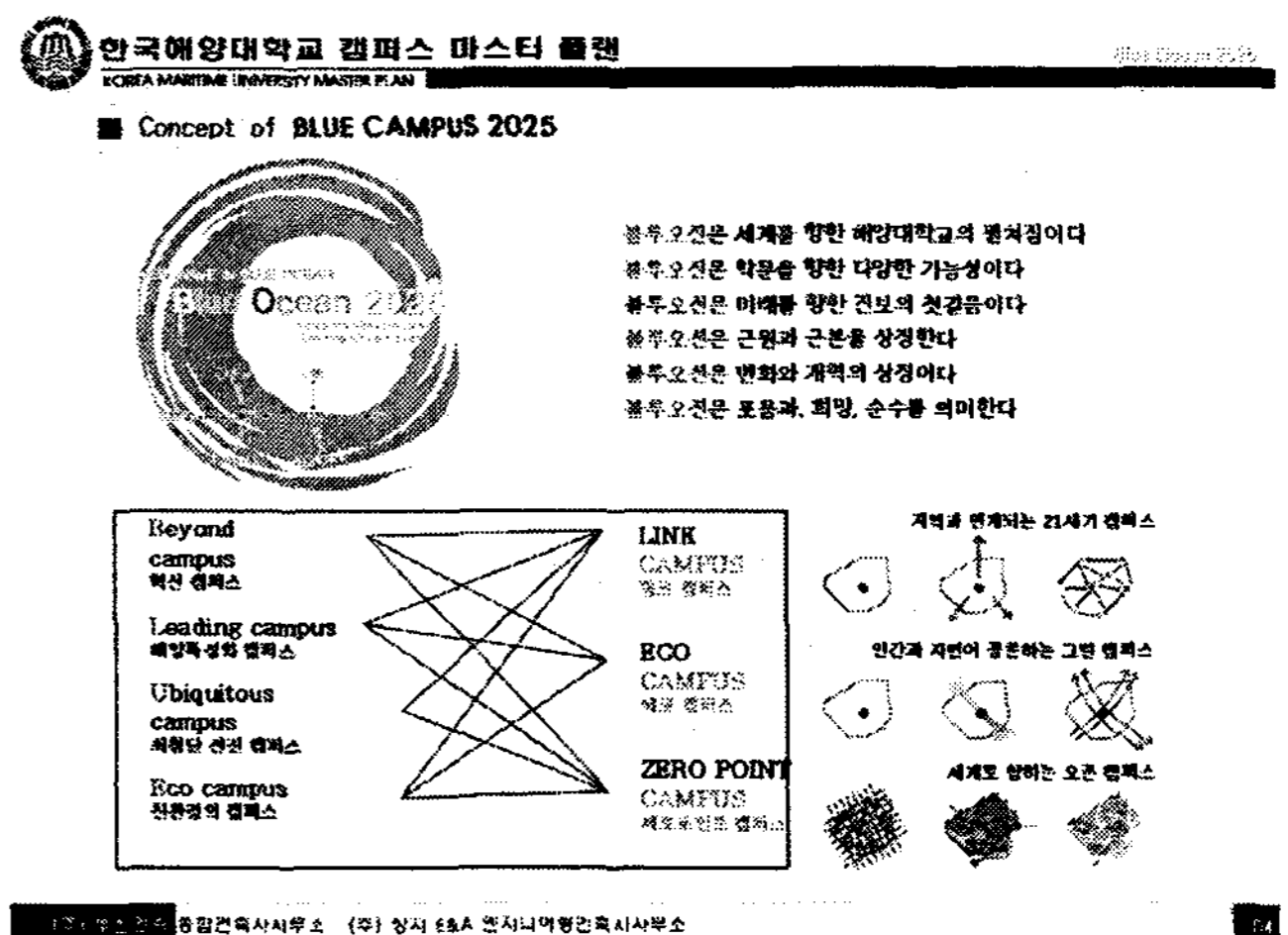
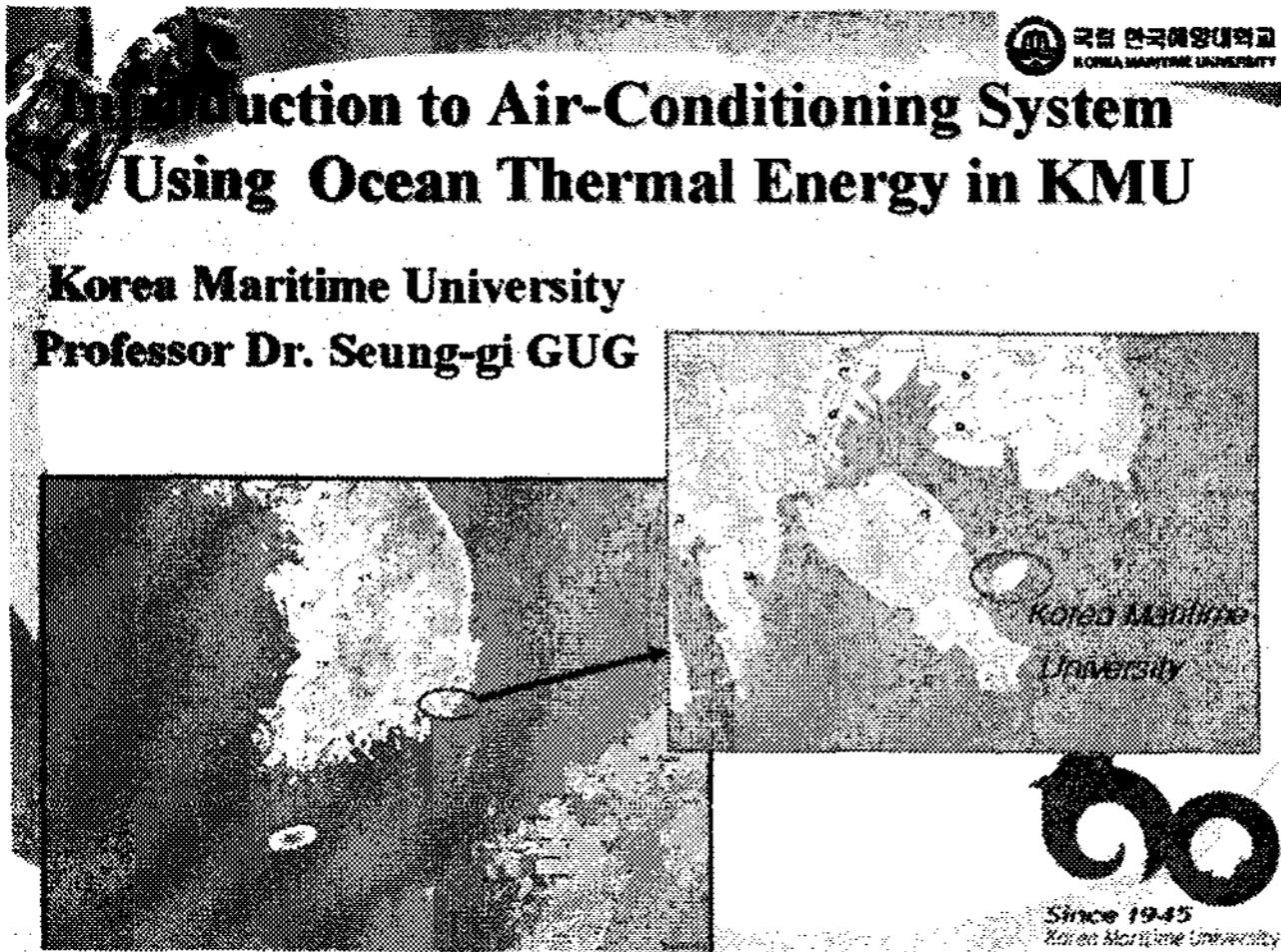
# 해양온도차를 이용한 냉난방시스템의 도입

† 국 승기\*

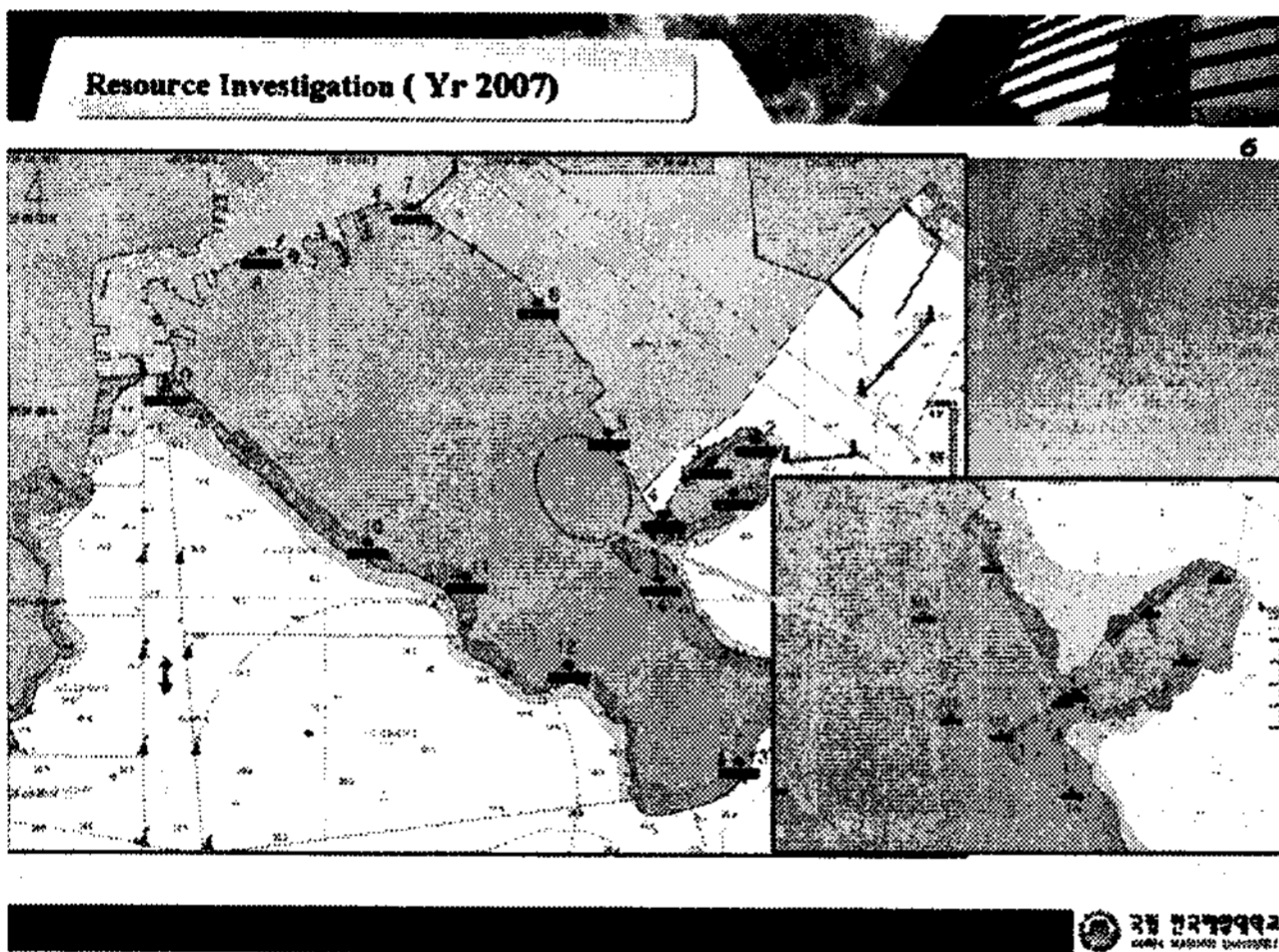
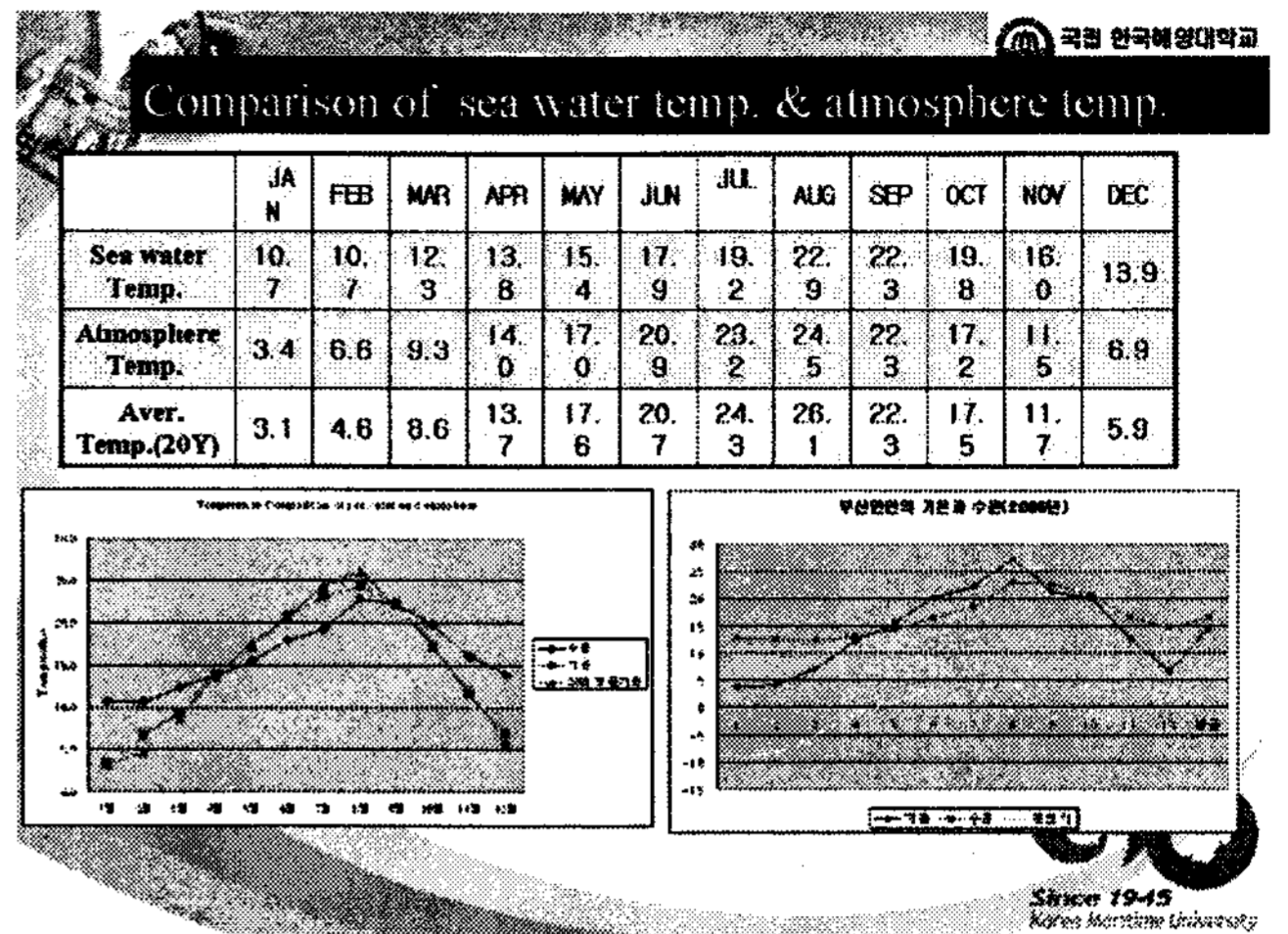
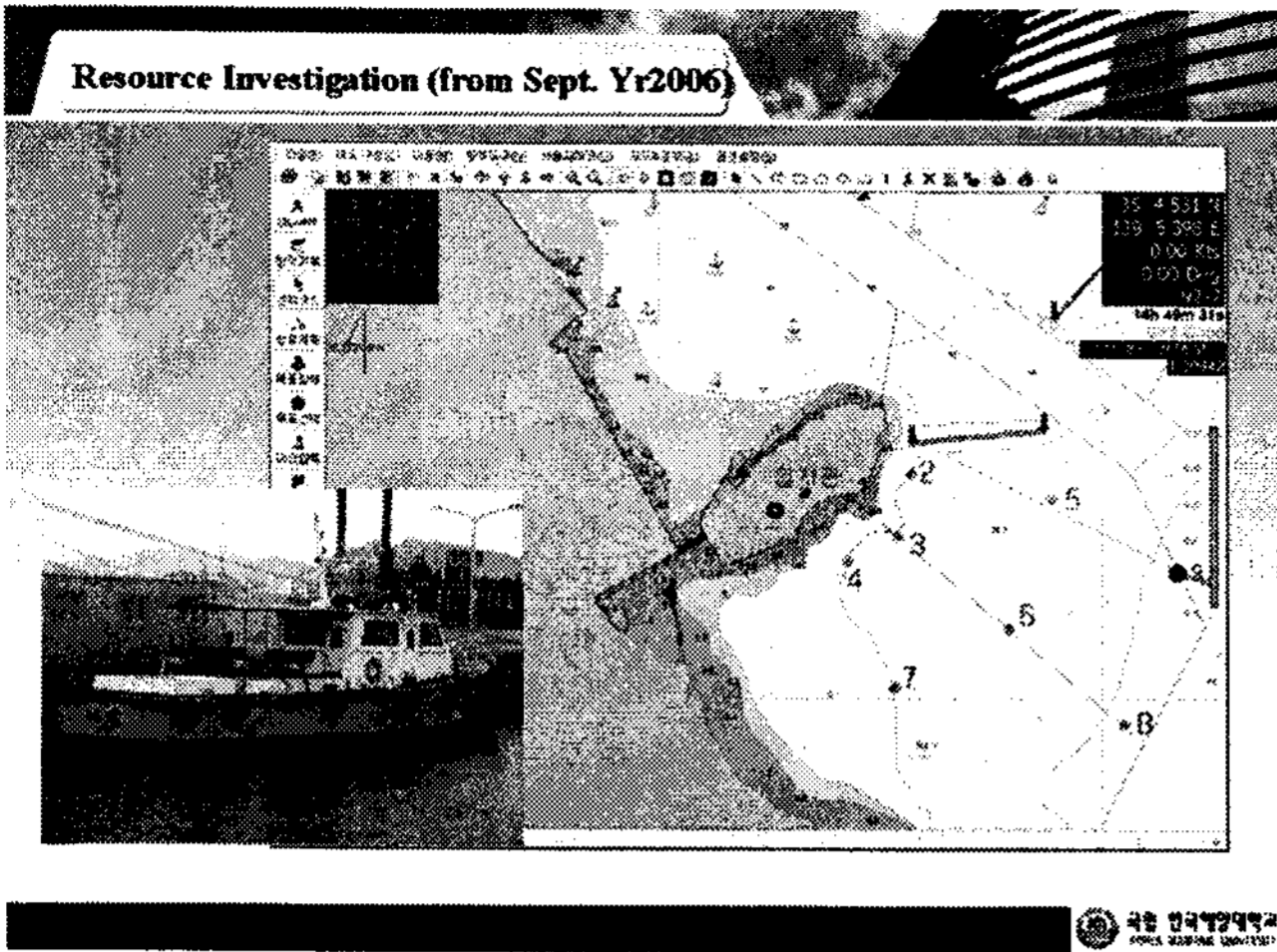
\*한국해양대학교 해양경찰학과 교수

**요 약 :** 해양온도차를 이용한 냉난방 시스템의 도입을 위한 해상 및 기상 실측을 통한 자원조사 및 시스템에 관한 기술적인 내용을 기술한다.

**핵심용어 :** 해양온도차, 냉난방시스템, 신재생에너지

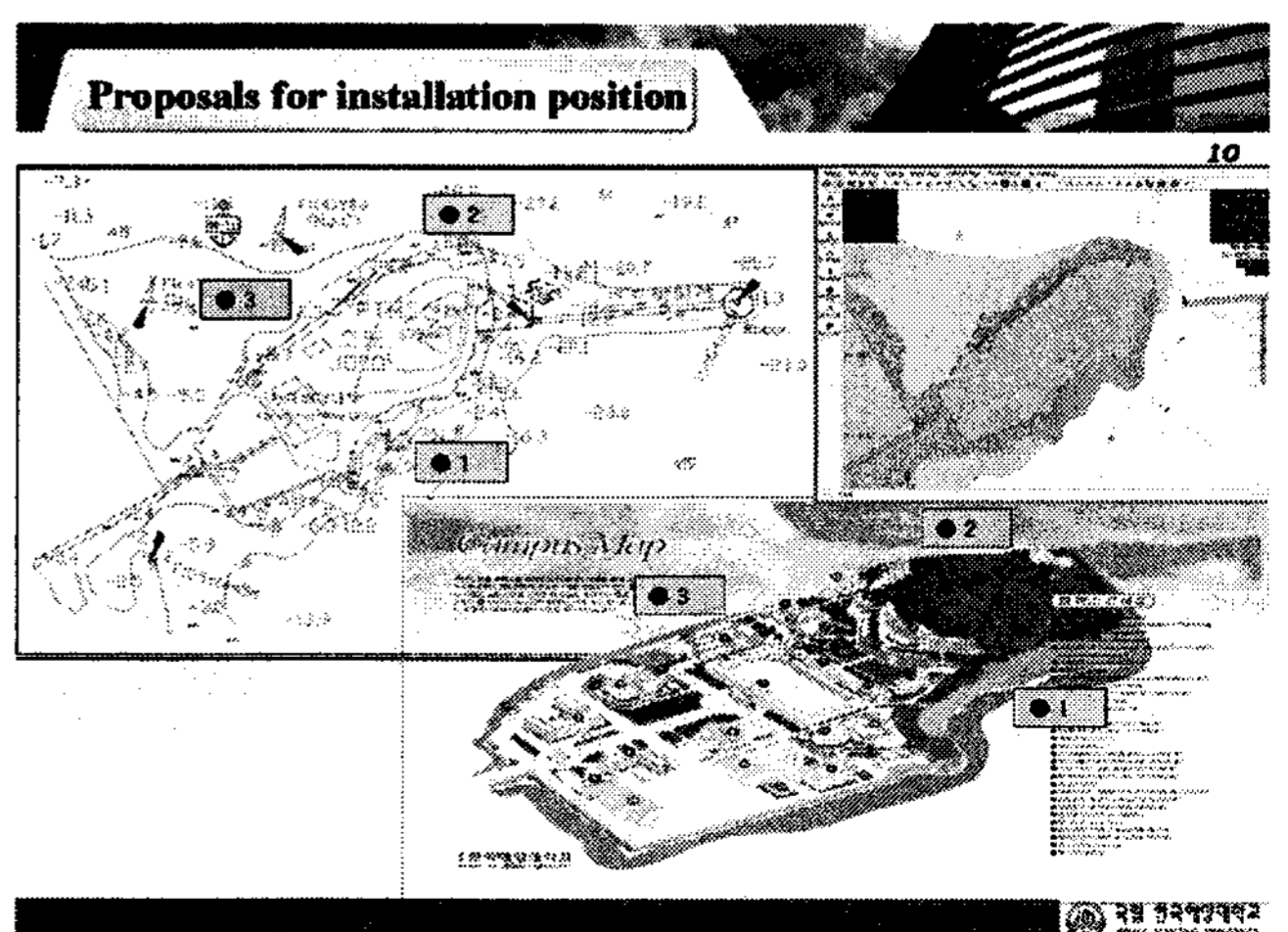
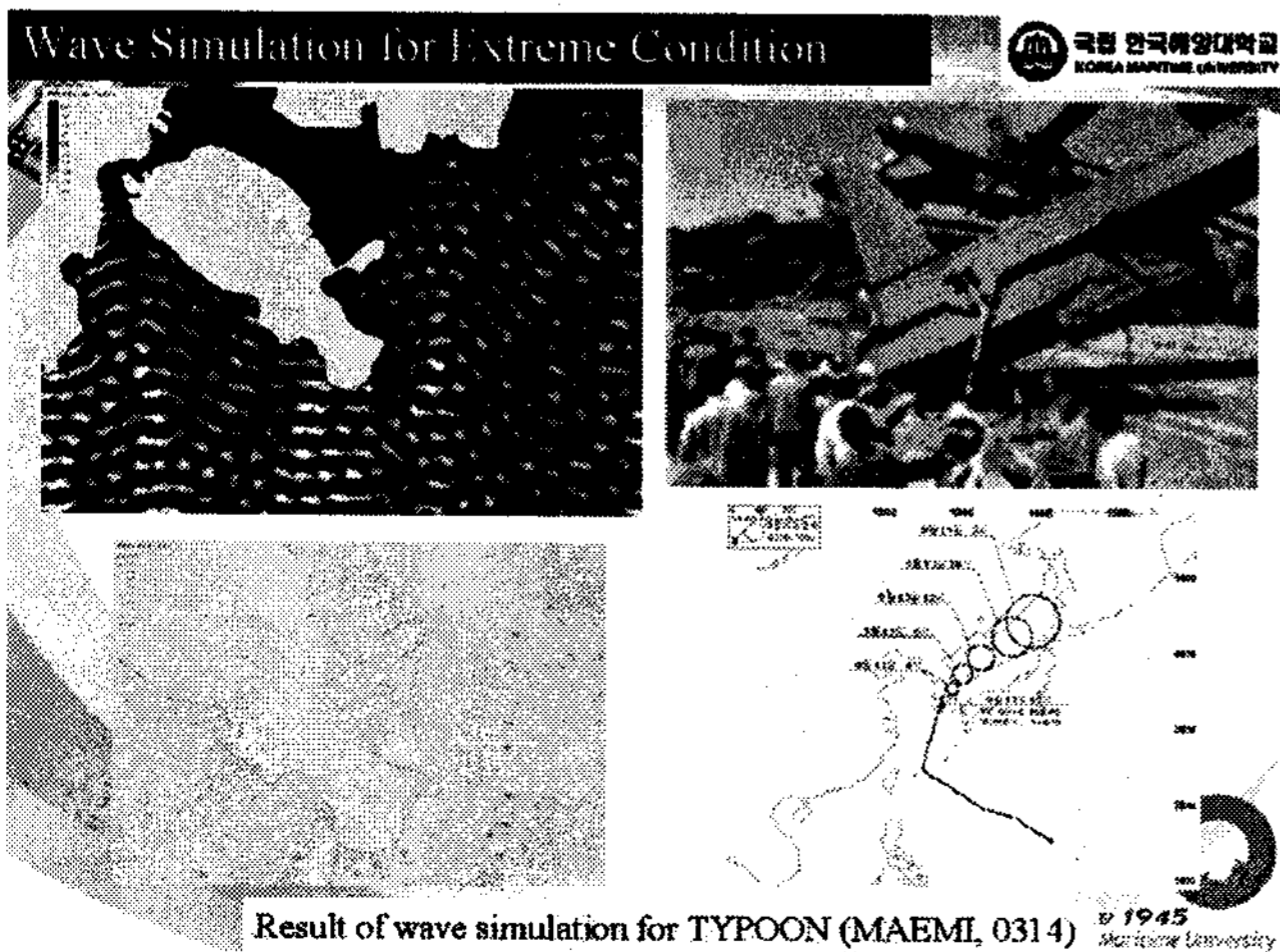


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### Plan to construct Air conditioning system used the ocean thermal energy in the University (2008)

- ▶ Building Name : International convention center
- ▶ Building Capacity : 2,640 m<sup>2</sup>
- ▶ Heat Pump Capacity : 100 RT
- ▶ Service : Seminar Room, Meeting Hall, etc.



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### Estimate of installing conditions for sea water heat pump

	Site no. 1	Site no. 2	Site no. 3
<b>Position</b>	35° 04' 57"N 129° 05' 65"E	35° 04' 57"N 129° 05' 65"E	35° 04' 69"N 129° 05' 35"E
<b>Conditions of location</b>	Depth : 10m Length : 108m	Depth : 10m Length : 95m	Depth : 5m Length : 90m
<b>S.W temp.</b>	Good(3)	Aver(2)	Bad(1)
<b>Sea condition</b>	Bad(1)	Aver(2)	Good(3)
<b>Environmental effect</b>	Good(3)	Aver(2)	Bad(1)
<b>Difficulty of construction</b>	Bad(1)	Aver(2)	Good(3)
<b>Institution</b>	Aver(2)	Aver(2)	Aver(2)
<b>Estimate</b>	10	10	10

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### DHC Plant for Fukuoka Momochi Area

The Seaside Momochi District Supplies Heat using the Unutilized Energy of the Sea

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### Site Position

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### Sea Water Pipe Line for Heat Pump

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### Composition of Heat Pump System

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