The Analysis of Maritime Traffic Environments in Saigon Fairway

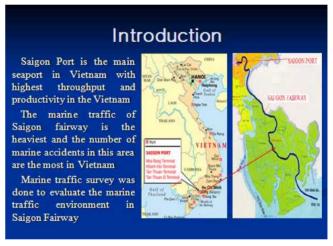
* Thanh Nhat Lai Nguyen ** Jae Yong Jeong, *** Jung Sik Jeong

* Graduate school of Maritime Transportation System, Mokpo National Maritime University, Mokpo, 530-729, Korea **, **** Division of Maritime Transportation System, Mokpo National Maritime University, Mokpo, 530-729, Korea

A 약: Saigon Port within the port system of the Vietnam Maritime sector is one of the port having highest throughput and productivity in the country. The marine traffic of Saigon water ways is the heaviest in Vietnam and the number of marine accidents in this area are much higher than the others area in Vietnam. In order to reduce the risk of the accident in Saigon fairway, this paper concentrates on marine accident frequency in this area. The marine traffic and the marine accident were analyzed to find out the probability of vessel collision and the marine traffic risk. It follows that the main shipping route through Saigon fairway has the high risk of ship-ship collision

핵심용어: Saigon port, Saigon fairway, marine traffic enviroment, marine accident, ship collision



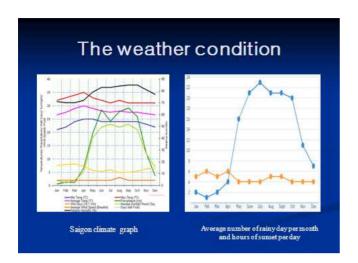


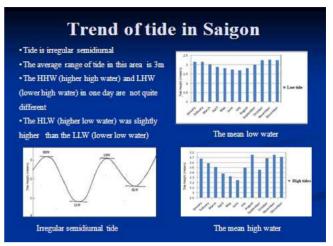




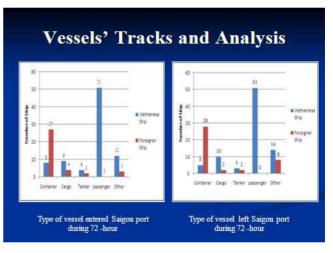
First author: * nhatlai19@yahoo.com

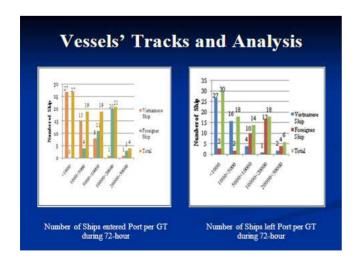
Corresponding author: ** jyjong@mmu.ac.krj, *** sjeong@mmu.ac.kr

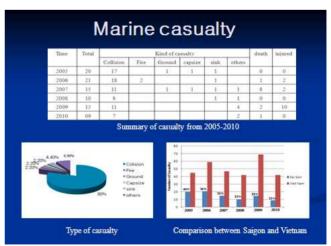






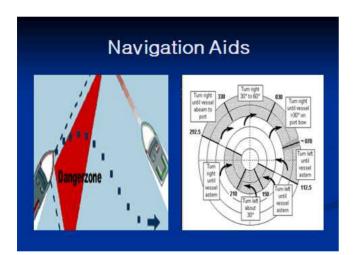


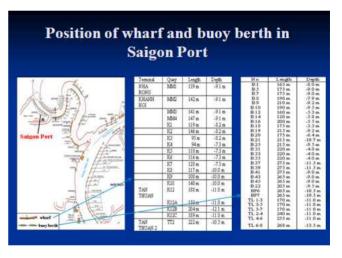












The restriction of marine traffic system

- Max size acceptable of ship is 32000 DWT which draft is less than 11 meter
- Many small ships navigate and anchorage along the fairway
- The traffic density is the heaviest in Vietnam, marine accident and traffic jam happen frequently
- The terrain of Saigon fairway is very complex and tortuous
- The VTS (vessel traffic service) and TSS (Traffic Separation Scheme) haven't been applied in Saigon port

Conclusion

- Port Management of Saigon should take strong comprehensive measures to restrict and exclude small ships for reduction the risk of accident in this area
- The marine traffic system should be upgraded and improved.
 The width of the fairway should be widen and the channel should be dredged to improve the depth of the fairway
- VTS (vessel traffic service) and TSS (Traffic Separation Scheme) should be applied in this area as soon as possible