The Importance of Environmental Safety Evaluation of Beaches

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Abstract

Tourism is the largest industry in the world and beaches are the major factor in this tourism market. However, in the activities of beaches’ tourism, some environmental indexes of beaches have significant effects on tourists’ experience, physical health, and even life safety. Based on the aim of providing safe and healthy services for tourists, some beach evaluation or rating systems in some European countries and the United States are described and advance in research of environmental safety evaluation of beaches in China is discussed, and the main problems and practical challenges in beach management are pointed out, which is exactly what I am working on.

Keywords: Beach tourism; Environmental safety; Evaluation system

Introduction

60% of the world’s population lives in areas within a distance of a 100 km from the sea at the end of the last century [1]. Coastal tourism is the largest market segment of global tourism [2-4]. At California beaches, each year nearly 150-400 million visits generated billions of dollars expenditures [5]. On the Miami Beach, more than 2 million visitors per annum brought over $130 million federal tax revenue [6]. At the Australian Gold Coast, 65,000 to 120,000 surfers spent AUS$126-233 million per year [7]. Therefore, beaches play a significant role in tourism.

As a kind of tourism resource, beach can be viewed as an aggregate that is composed of the following environmental factors: sediment, topography, seawater, weather and climate, hydrology, human management, etc. In the activities of coastal tourism, some indexes of the coastal environment and management (such as seawater quality, hydrological and meteorological condition, sediment, safety education, danger warning, etc.) can have remarkable effects on tourists’ experience, physical health, and even life safety. For example, it is estimated by a recent research that polluted coastal waters generate more than 120 million gastroenteritis (GI) episodes and 50 million Acute Respiratory Disease (ARD) episodes every year globally, causing $12 billion per year in public health costs [8]. For another instance, more than 120 million gastroenteritis (GI) episodes and 50 million Acute Respiratory Disease (ARD) episodes every year globally, causing $12 billion per year in public health costs [8]. For another instance, more than 120 million gastroenteritis (GI) episodes and 50 million Acute Respiratory Disease (ARD) episodes every year globally, causing $12 billion per year in public health costs [8]. For another instance, more than 120 million gastroenteritis (GI) episodes and 50 million Acute Respiratory Disease (ARD) episodes every year globally, causing $12 billion per year in public health costs [8].

These evaluation or rating systems pay close attention to the assessment of safety factors and thus play a key role in maintaining and guaranteeing the safety of beaches. Based on 821 questionnaires’ survey in four bathing beaches of Wales from 1995 to 1996, 40% of tourists asserted that these rating activities had influence on their choices of bathing beaches.

Since 2003, water quality, meteorology and hydrology condition have been monitored and predicted in the swimming seasons of the 23 primary bathing beaches of China. However, up to date, there is no corresponding evaluation or rating system of beaches at the national level in China. Though some scholars have done some work [13-24], the majority of their work mainly focuses on water quality evaluation. Wang [25] established an evaluation index system of environmental safety of beaches. Although his evaluation system is comparatively comprehensive, certain natural and management factors, such as tide, red tide, storm surge, tourist density, facility condition, personnel allocation, etc., are seldom included.

Conclusion

Therefore, at present, from the perspectives of providing health and safety services for beachgoers, the inclusion of these important natural and management factors in an evaluation index system of beaches is necessary to evaluate and classify beaches in China. And that’s exactly what I am working on.
References