



THE USE OF SATELLITE IMAGERIES TO SUPPORT TOURISM SECTOR IN BANGKA BELITUNG ISLANDS, INDONESIA



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OUTLINE

- Background
- Study area (location and tourism objects)
- Method
- Result
- Conclusion



BACKGROUND

- Holiday and spare time as free moment to visit many interesting places.
- Existing tourism book → photos, brief description, small scale map
- Rapid development of remote sensing technology and geographic information system



STUDY AREA..TOURISM OBJECTS

No	Regency / Municipality Name of Tourism Object	No	Regency / Municipality Name of Tourism Object
1	Bangka Regency <ul style="list-style-type: none"> • Tirta Tapta Pemali Hot Spring Water • Fuk Tet Che Temple • Matras Beach • Parai Tenggara Beach • Romodong Beach • Tanjung Penyusuk Beach • Tanjung Pesona Beach • Phak Kak Liang • Kwan Yin Goddess Temple 	5	Belitung Regency <ul style="list-style-type: none"> • Berahu Hill • Belitung Museum • Awan Mendung Beach • Batulubang Beach • Mabai Beach • Tanjung Kelayang Beach • Tanjung Pendam Beach • Tanjung Tinggi Beach • Teluk Bahagia Beach
2	West Bangka Regency <ul style="list-style-type: none"> • Mount Menumbing • Pasir Kuning Beach • Tanjung Kalian Beach • Tanjung Ru Beach • Palm Oil Plantation • Ranggam House 	6	East Belitung Regency <ul style="list-style-type: none"> • Pice Dam • Green Lake • Bukit Batu Beach • Burung Mandi Beach • Nyiur Melambai Beach • Serdang Beach • Kwan Im Goddess Temple
3	South Bangka Regency <ul style="list-style-type: none"> • Nyelanding Hot Spring Water • Sin Mu Temple • Tanjung Krasak Beach • Tanjung Tiris Beach 	7	Pangkalpinang Municipality <ul style="list-style-type: none"> • Giri Maya Hill Golf Course • Tin Museum • Pasir Padi Beach
4	Central Bangka Regency <ul style="list-style-type: none"> • Ciluak Hot Spring Water • Kurau Fisherman Village • Penyak Beach • Sempur Beach • Tanjung Berikat Beach 		

METHOD

Required Data:

- Satellite images → Landsat, Quickbird
- Map → topographic map
- Photos → field survey
- Narrative → field survey, booklet, leaflet, web

Data Processing:

- Satellite images → Composite band, map of satellite image
- Map → generalization
- Photos → image quality enhancement
- Narrative → compilation

RESULT..BANGKA BELITUNG FROM SPACE

LEGENDA PETA

PERMUKAAN SETTLEMENT

- Republik Indonesia
- Jalan Arteri
- Jalan Kolektor
- Jalan Lokal
- Jalan Sekeloa

DALAM RANGKA

- Gunung dan Relief
- Tiga Tinggi
- Batu Karang
- Batang Karang
- Pasar

SARANA PERIBADATAN

- Masjid
- Gereja
- Vihara
- Kantor Pemerintahan
- Kantor Pemerintahan Provinsi
- Kantor Pemerintahan Kabupaten
- Kantor Pemerintahan Kota
- Kantor Pemerintahan Kecamatan

PELABIHAN UDARA & PELABIHAN LAUT

- Pelabuhan Udara
- Pelabuhan Laut
- Pelabuhan Ferry

BATAS ADMINISTRASI

- Batas Provinsi
- Batas Kabupaten
- Batas Kecamatan

PELAKSA HIDROGRAFI

- Banyir
- Garis Pantai
- Dataran Laut

MAP LEGEND

WARNA KETINGGIAN

0, 1000, 2000, 3000, 4000

SIMBOL SARANA DAN JASA PARASOSIAL UNTUK PETA KOTA

- Museum
- Wisata Pertanian
- Sekolah
- Pemandangan
- Sumber Air Panas
- Pusat Kegiatan Tangan
- Goji
- Hotel Beribadat
- Wisata Lain

SEKILAS PENGINDERAAN JAUH

Penginderaan jauh dapat didefinisikan sebagai "suatu objek atau objek di jarak" dan bisa diterapkan ke segala apa saja untuk memperoleh informasi mengenai dari kejauhan. Memeriksa objek atau masalah gambar bisa juga dianggap menggunakan Penginderaan jauh. Di banyak kasus, Penginderaan jauh adalah ilmu dan seni memperoleh dan menganalisis data tentang objek-objek, area atau fenomena geospasial yang diambatkan dari objek-objek yang dipotret pada jarak tertentu dari objek, area atau fenomena.

Media yang paling umum digunakan dalam kegiatan penginderaan jauh untuk memperoleh objek dan data adalah kamera dan satelit. Salah satu jenis kamera adalah kamera satelit. Kamera satelit menggunakan spektrum cahaya yang gelombang lebih pendek, tetapi sistem penginderaan jauh juga menggunakan spektrum sinar inframerah. Salah satu jenis kamera satelit menggunakan spektrum sinar inframerah dan gelombang mikro (SAR).

Sumber utama energi elektromagnetik adalah matahari. Cahaya matahari akan berinteraksi dengan objek di bumi dan dipantulkannya ke permukaan. Sebagian energi akan diserap, dan sebagian akan dipantulkan. Energi yang dipantulkan akan diserap oleh sensor yang mendeteksi objek atau fenomena dari Penginderaan jauh.

KEPULAUAN BANGKA BELITUNG DARI ANKASA

BANGKA BELITUNG ISLANDS FROM SPACE

KEPULAUAN BANGKA BELITUNG DARI ANKASA BANGKA BELITUNG ISLANDS FROM SPACE

Legend

... (Detailed legend for the map showing various symbols and colors for land use and infrastructure.)

REMOTE SENSING OVERVIEW

Di buku Bangka Belitung Dari Angkasa, kita dapat melihat bagian-bagian Provinsi Kepulauan Bangka Belitung dengan citra satelit QUICKBIRD, LANDSAT 7 ETM+, dan peta citra radar Indonesia.

Remote sensing can be defined as "observing objects from a distance" and it can be applied to any activity of observing interesting phenomena from a distance. Reading a book or viewing a picture can be viewed as doing a remote sensing activity. In many cases, remote sensing is defined as a science and art to obtain information about objects, area, or phenomena through analyzing data that appears in certain distance from the objects, area, or phenomena.

Media used in remote sensing to receive objects on a sensor or sensor electromagnetic, an example of electromagnetic, an example of remote sensing is satellite camera. Satellite camera uses spectrum light wave shorter wavelength, but the system of remote sensing also uses other electromagnetic spectrum such as infrared, thermal infrared, and microwave (used in radar system).

KUNCI INTERPRETASI

Interpretation Key

Blue	Red	Light Blue	Water
Green	Yellow	Dark Green	Permanen Settlement
Dark Green	Light Green	Dark Red	Open Rice Field
Dark Red	Light Red	Light Yellow	Open Field
Light Green	Light Blue	Light Blue	Water
Light Blue	Light Green	Light Green	Water
Light Green	Light Red	Light Red	Water
Light Red	Light Yellow	Light Yellow	Water

Remote Sensing Overview

... (Detailed text explaining the overview of remote sensing technology and its applications.)

Remote Sensing Overview

... (Detailed text explaining the overview of remote sensing technology and its applications.)

Interpretation Key

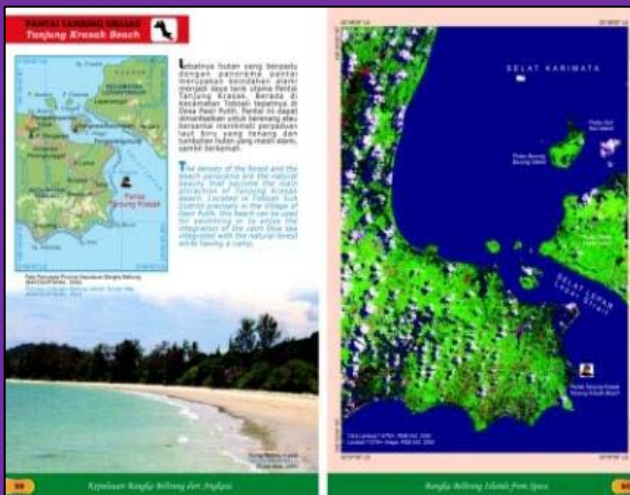
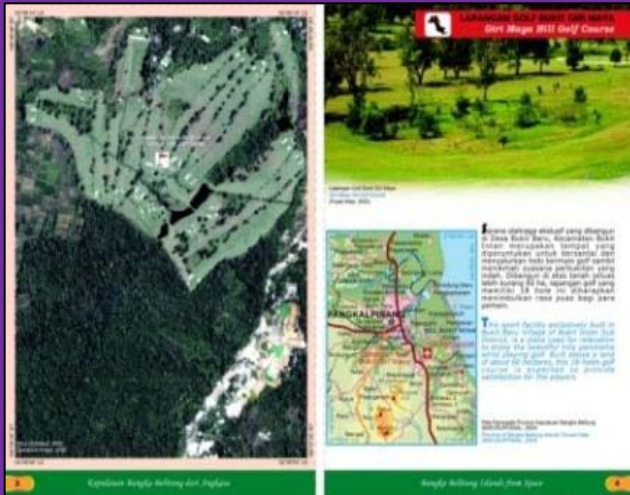
... (Detailed text explaining the interpretation key for the satellite imagery.)

Interpretation Key

... (Detailed text explaining the interpretation key for the satellite imagery.)



RESULT..BANGKA BELITUNG FROM SPACE



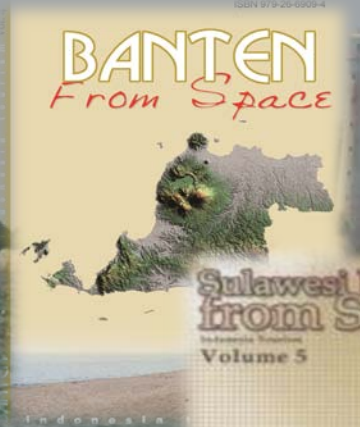
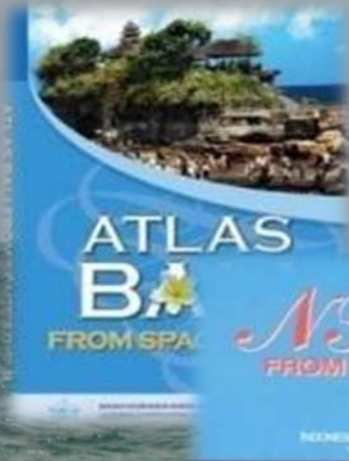
RESULT..FURTHER USAGE

- Promotion of tourism objects
- Supporting data in spatial planning
- Improvement of current tourism web



CONCLUSIONS

- Satellite images are useful to support tourism promotion activities
- On-going project that needs to be improved



A photograph of three people standing on the crest of a sand dune. The person on the left is wearing a white long-sleeved shirt and dark pants. The person in the middle is wearing a light blue long-sleeved shirt and blue jeans. The person on the right is wearing a white short-sleeved polo shirt and dark pants. The sky is a clear, pale blue. The sand dune is in the foreground and middle ground, with some small tufts of grass visible. The text 'THANK YOU' is overlaid in large, bold, yellow, 3D-style letters with a reflection effect. Below it, the word 'Mercy' is written in a pink, cursive font.

THANK YOU

Mercy