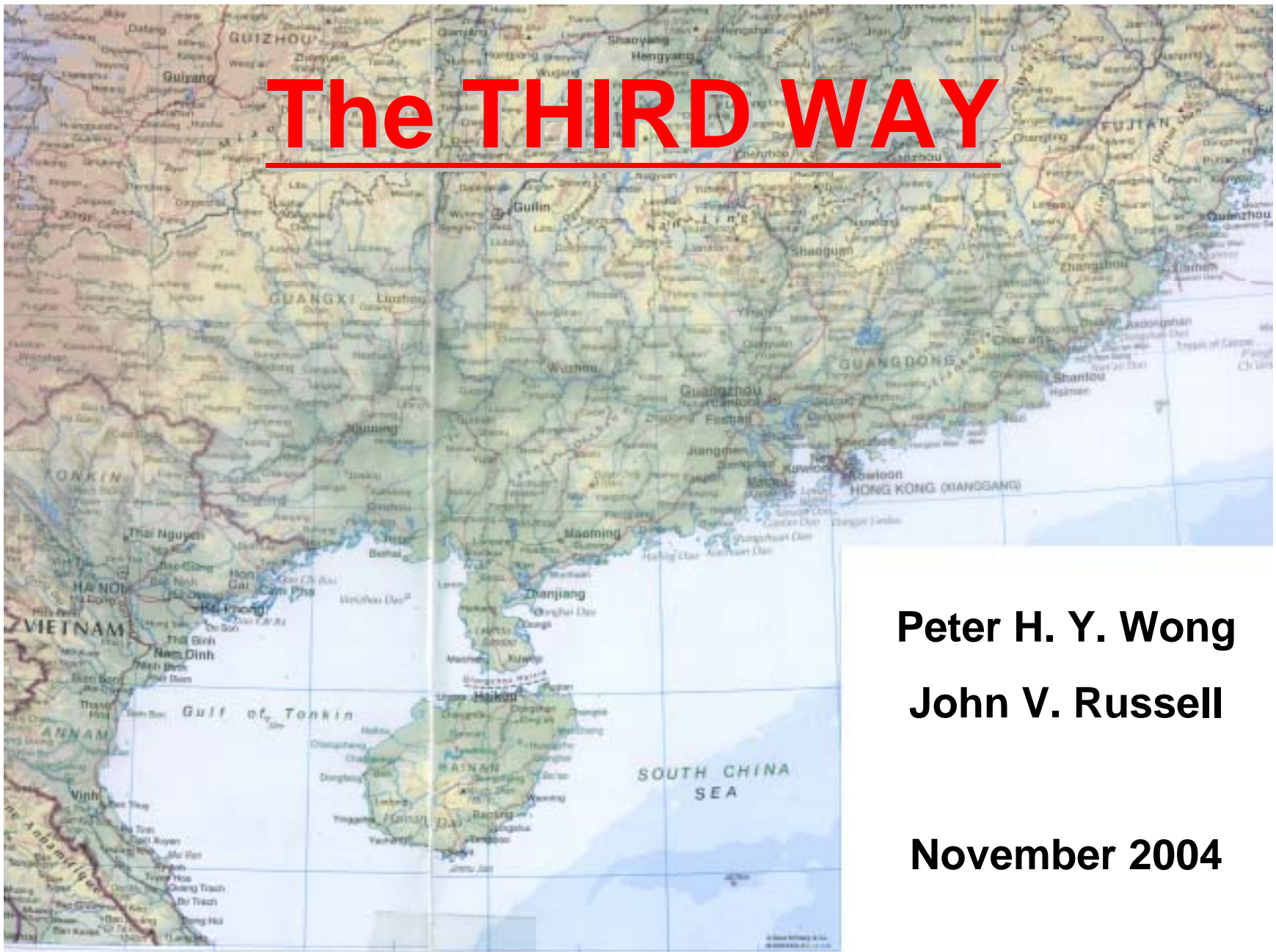


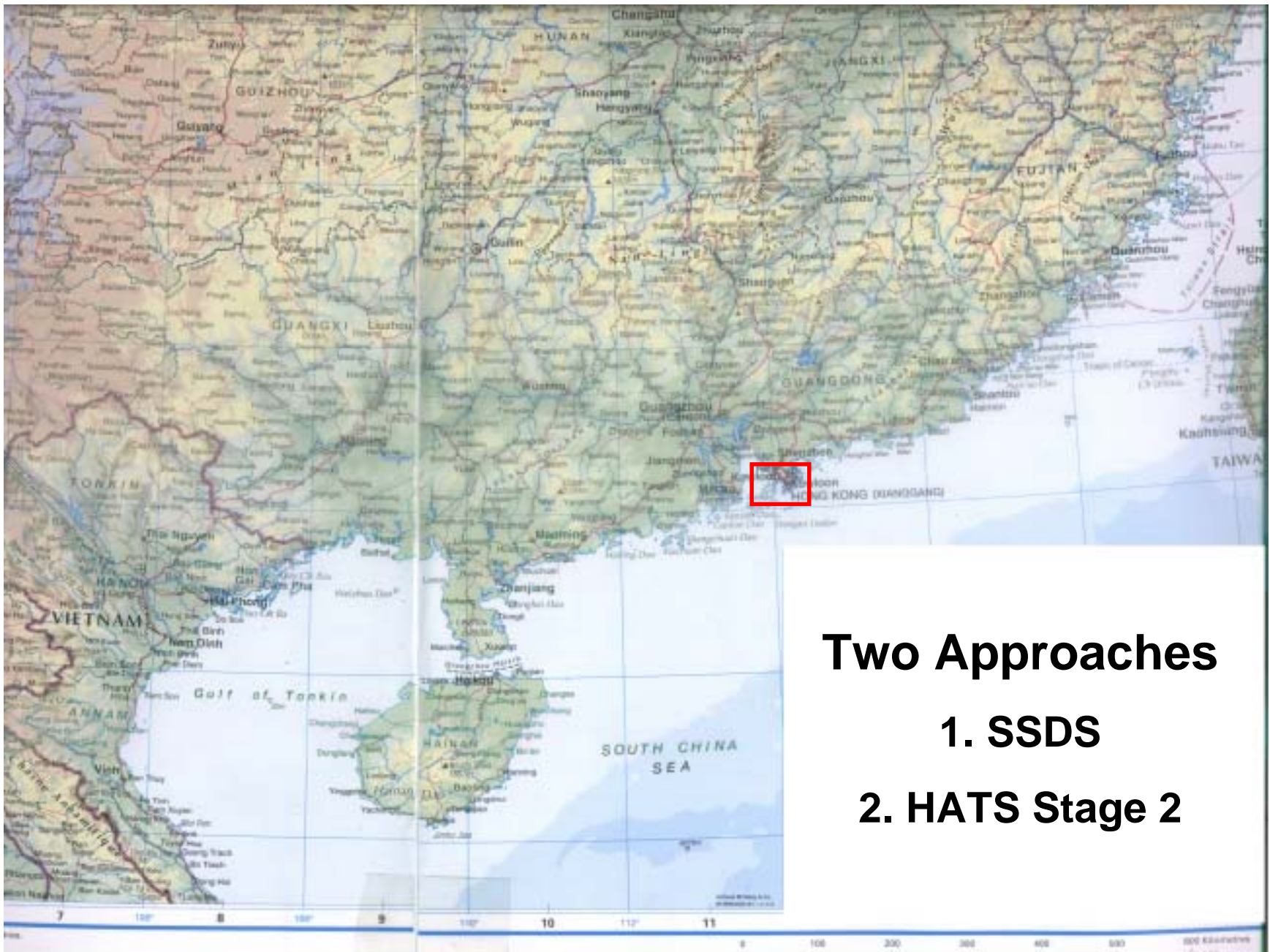
# The THIRD WAY



**Peter H. Y. Wong**

**John V. Russell**

**November 2004**



## Two Approaches

1. SSDS

2. HATS Stage 2

# **SSDS**

## **STRATEGIC SEWAGE DISPOSAL SCHEME**

Option 2: CEPT+Disinfection to SE  
Lamma Outfall



- CEPT
- Disinfection
- Long outfall
- IRP Recommended  
SSDS in January 2000  
(Later to change  
decision)



APPENDIX 2 ARTISTS IMPRESSION OF THE STRATEGIC SEWAGE DISPOSAL SCHEME (SSDS) - HONG KONG HARBOUR

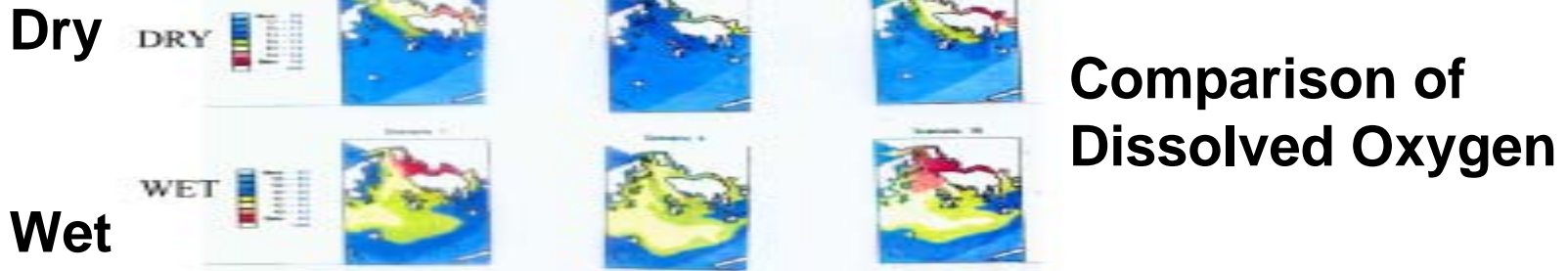
APPENDIX 3 WATER QUALITY MODELLING RESULTS  
A COMPARISON [EPD, (1998a)]

LOCATION OF OUTFALLS



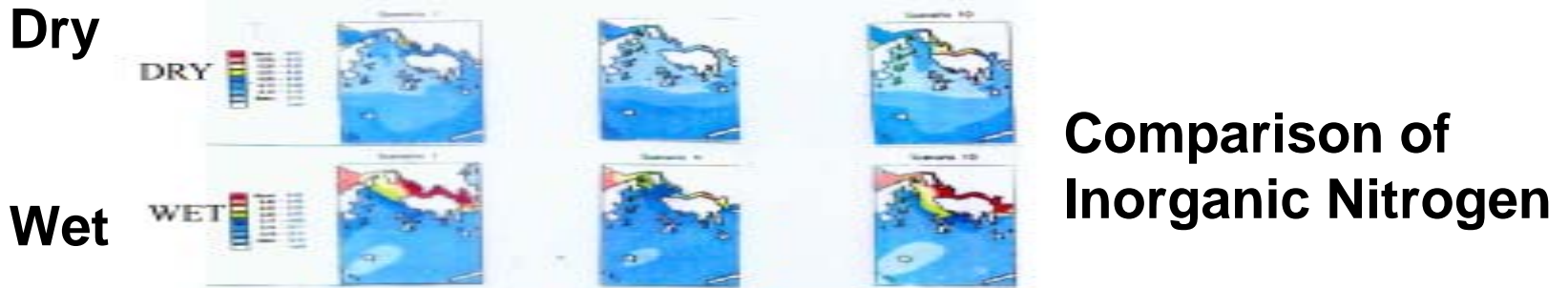
Location of SSDS outfall

COMPARISON OF DISSOLVED OXYGEN



Comparison of Dissolved Oxygen

COMPARISON OF TOTAL INORGANIC NITROGEN



Comparison of Inorganic Nitrogen

**HATS STAGE 2**

**HARBOUR AREA  
TREATMENT SCHEME  
STAGE 2**

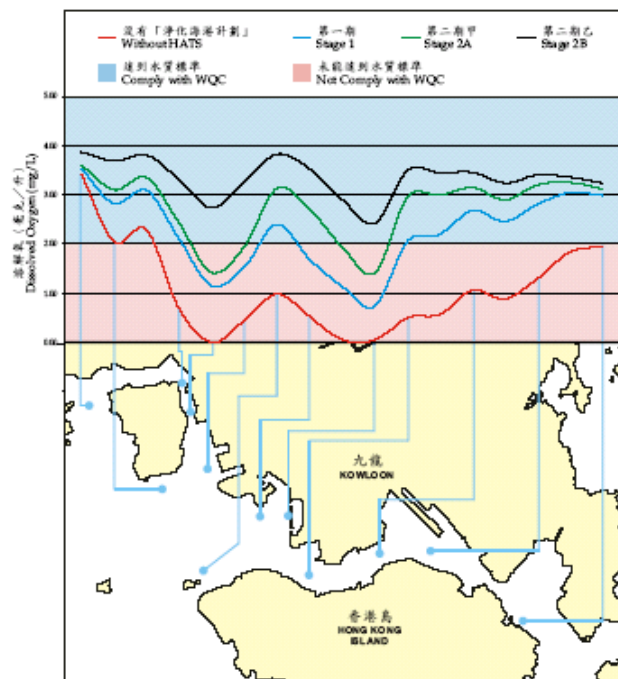
「淨化海港計劃」第二期首選方案  
The Preferred Option for HATS Stage 2



## HATS Stage 2

- CEPT
- Disinfection
- Local outfall
- Biological Nutrient Removal
- IRP Recommended November 2004 (Water Quality issues with long out fall)

維多利亞港最低溶解氧含量(水質標準>2毫克/升)  
 Minimum Dissolved Oxygen in Victoria Harbour (WQC > 2mg/L)



**INTERNATION REVIEW  
PANEL (IRP)**

**Stated in November 2000 Report:**

**“...To curb the overall pollution load entering coastal waters of Hong Kong, regional efforts and controls are absolutely essential.”  
(IRP, Nov 2000, p. B-5)**

**“It would be very helpful if Hong Kong can find ways of loaning or contributing financial resources”  
(IRP, Nov 2000, p.34)**

# **PEARL RIVER**

**POLLUTION LOADS ARE  
SEASONAL**

- 1. WET SEASON**
- 2. DRY SEASON**



**Guangzhou**

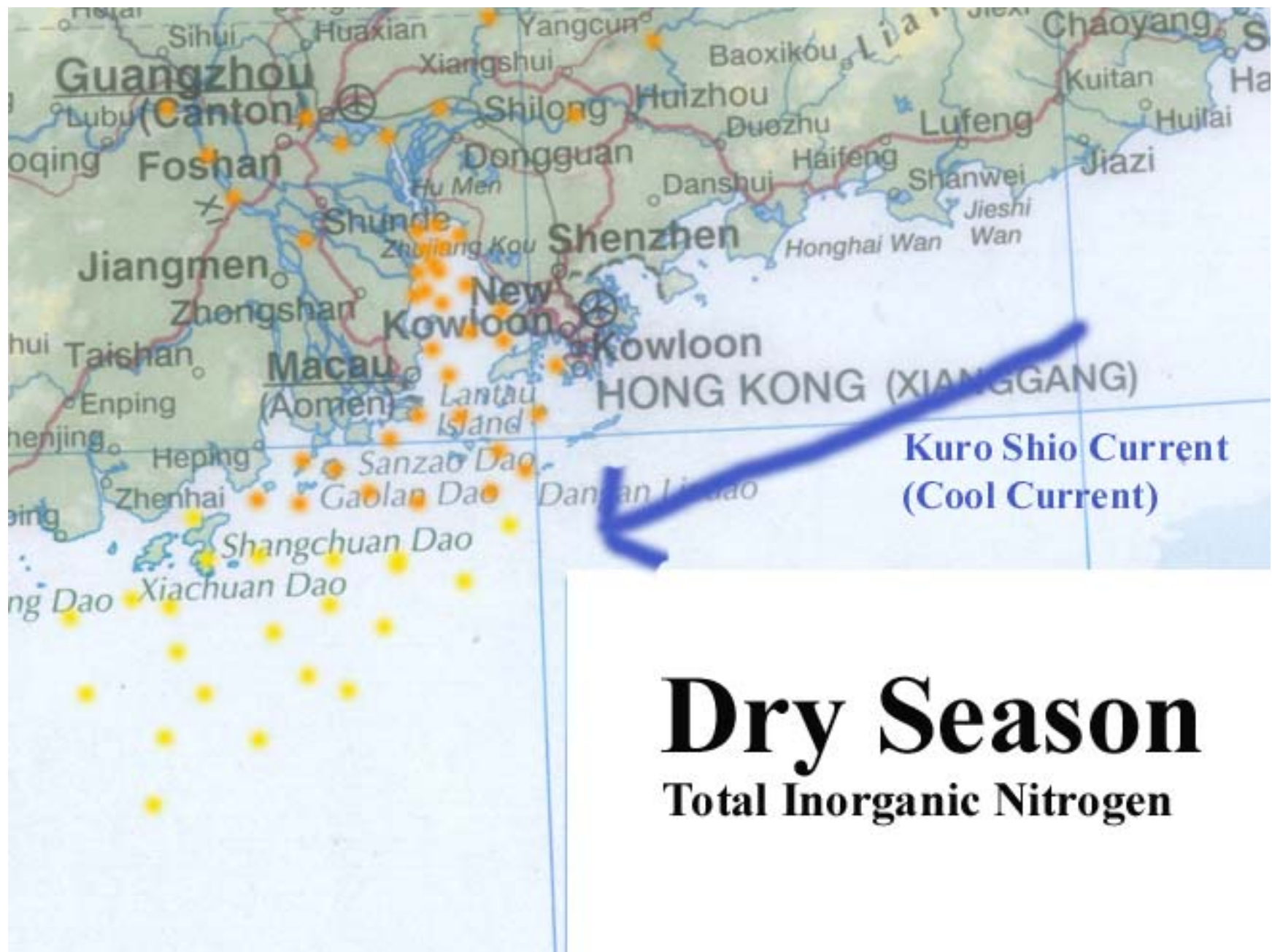
**Foshan**

**Shenzhen**

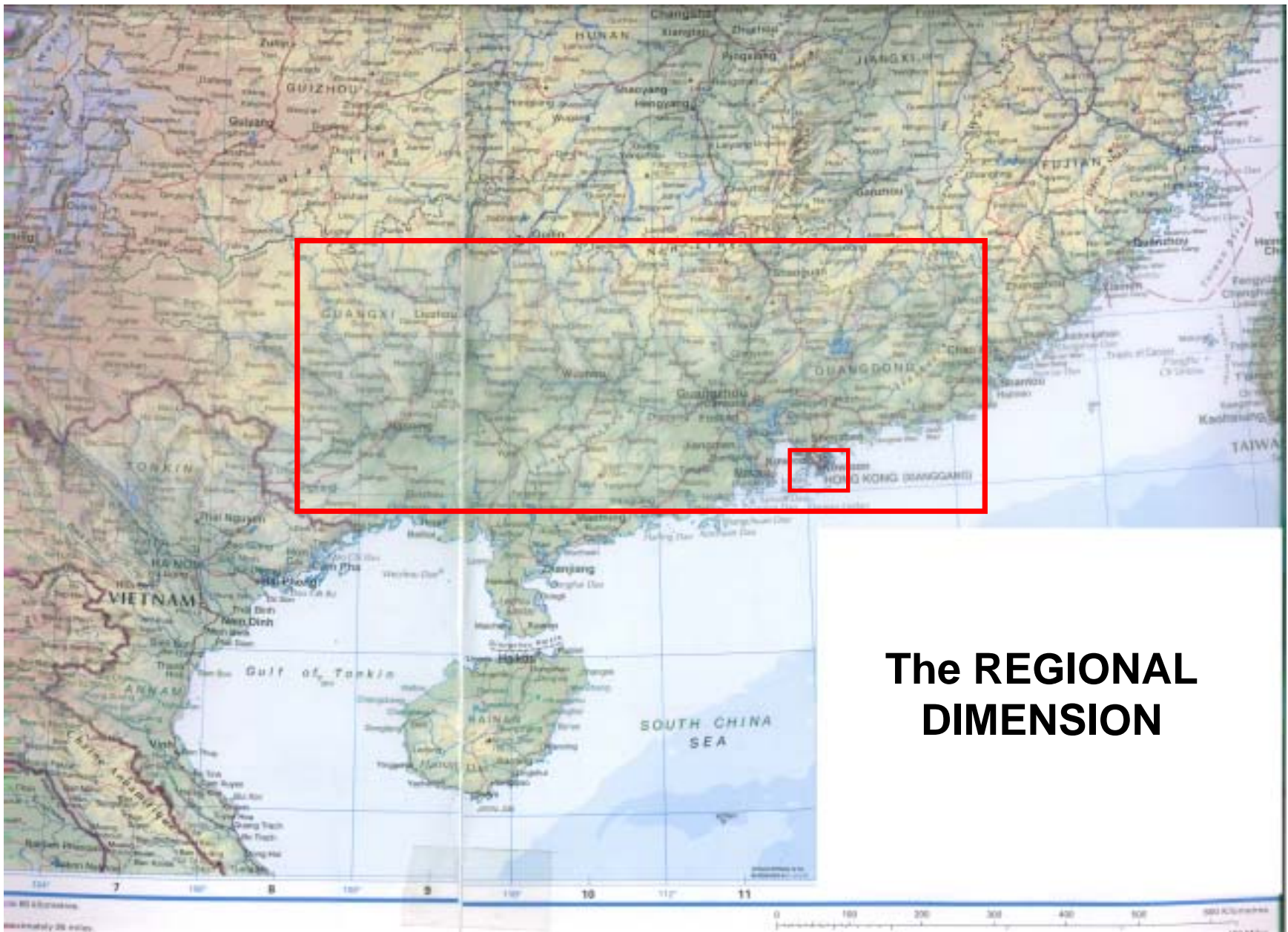
**Macau**  
(Aomen)

**HAINAN CURRENT**  
(Warm Current)

**Wet Season**  
Total Inorganic Nitrogen



**Dry Season**  
**Total Inorganic Nitrogen**



**The REGIONAL  
DIMENSION**

# **PAPER CONCLUDES:**

**1. Form, with the Guangdong Provincial Government a “Pearl River Delta Commission”....**

**2. Commence, significant targeted investments in water quality measures in the Pearl River Catchment.....**