

INFORMATION ON NEW CONCLUSIONS OF THE DOCTORAL THESIS

The doctoral thesis title: Study of the total electron content, gradient characteristics of the ionosphere and their influences on the GPS signal propagation over Vietnam region

Code: 62 44 01 11

Specialty: Geophysics

Full name of the candidate: Tran Thi Lan

Study Period: 2008-2012

Supervisors:

1. Dr. Le Huy Minh, Institute of Geophysics, Vietnam Academy of Science and Technology.
2. Dr. Patrick Lassudrie-Duchesne, Micro Onde Department ENST Bretagne, France

Education institution: Institute of Geophysics, VAST

New contribution of the thesis:

- 1- Applied the new method to determine the differential code bias (satellite and receiver) in absolute TEC determination from dual frequency GPS data and completed the program to calculate TEC using pseudo-range measurements.
- 2- Indicated the variation of TEC with time, season and solar activity. Constructed the TEC distribution maps with time and latitude for Vietnam region during 2006-2010.
- 3- For the first time, presented the statistical results and indicated the occurrence characteristics of ionospheric scintillation over Vietnam region.

Supervisors

(Full name and signature)

Ph.D. candidate

(Full name and signature)

Dr. Le Huy Minh

Tran Thi Lan

**Confirmation of
Education Institution**