

## Recent Seismicity at the Western part of Hokuriku District

# Takuo Okamoto[1], Hiroo Wada[2], Norio Hirano[3], Fumiaki Takeuchi[4], Kiyoshi Ito[5], Kin'ya Nishigami[6], Kunihiro Watanabe[7], Ryohei Nishida[8]

[1] FNCT, [2] Kamitakara Obs., Disas. Prev. Res. Inst., Kyoto Univ., [3] D.P.R.I Kyoto Univ., [4] RCEP, DPRI, Kyoto Univ., [5] Disas. Prev. Res. Inst, Kyoto Univ., [6] Disas. Prev. Res. Inst., Kyoto Univ., [7] RCEP, DPRI, Kyoto Univ., [8] Civil Engi, Tottori Univ

<http://namaz.ge.fukui-nct.ac.jp/>

### 1 Geophysical Characteristics of Western part of Hokuriku District

There are some characteristics for geophysics at western part of Hokuriku District. In and around the land area, they are the existence of Mt. Haku and the distribution of active fault. In and around the Wakasa bay area, they are the complicated coastal line and the distribution of active faults. For earthquake, we had several large earthquakes, Fukui earthquake (1948, M7.1), Dishoujioki earthquake(1952, M6.5), Echizenmisakioki earthquake (1963, M6.9) and so on. We recognized the linear distribution of micro earthquakes along the Fukui earthquake fault. By the occurrence of Hyougokennanbu earthquake (1995, M7.3), to study the relation between the occurrence of earthquakes and the distributions of active faults is one of the most important themes in this area. We used the Win-system data in Hokuriku and Kamitakara Observatory, D.P.R.I., Kyoto-U, from 1996. We elucidated the high activity at the Wakasa bay area on May, 2000 (Okamoto et al., 2001). Recently, as seismicity of land area has been high, we discuss about that in detail.

### 2 Characteristics of earthquake groups

We relocated the earthquakes occurred in groups from 2000 by MJHD method (Hurukawa and Imoto, 1992). The azimuth of distribution of earthquakes was coinciding with the one fault plane of mechanism of the large one in the group. But that was not the same near active fault of surface in some cases (Okamoto et al., 2001). We recognized this pattern in the recent activities of this area

### 3 Recent activities

In 2002, we had several seismic activities at land area. In the latter half, seismic activities were recognized around the Mt. Haku. The pressure axis a little shifted from east west. The distribution of earthquakes was coinciding with one fault plane of the mechanism. But those were not the same as Fukui earthquake fault direction and Togashi fault direction. We discuss about the cause of high activities in this present.