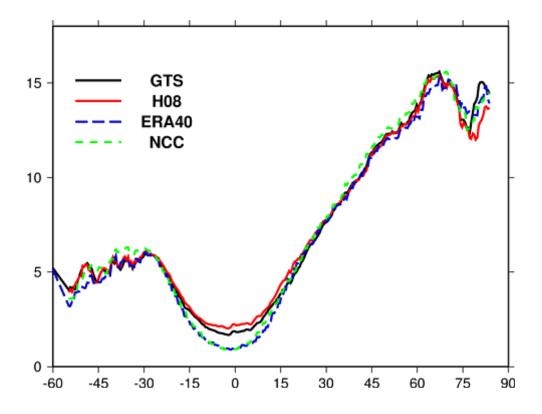
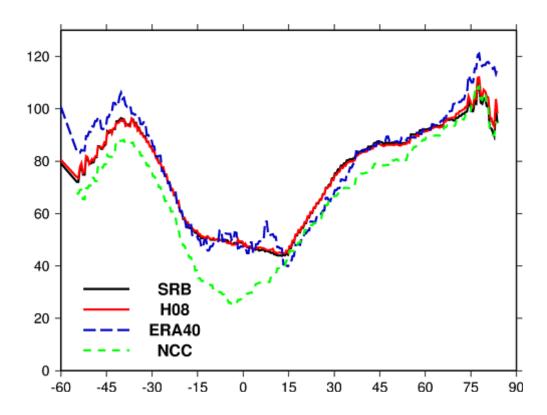
Supplement 1 to Hydrological Research Letters 2, 65–69 (2008) Published online in J-STAGE (www.jstage.jst.go.jp/browse/HRL). DOI: 10.3178/HRL.2.65



**Supplement 1.** Zonal means of the standard deviation of daily temperature from 1986 to 1995 of the observation-based product of the Global Teleconnection System (GTS) by the National Oceanic and Atmospheric Administration, our product (H08), and the ERA40 and NCC reanalysis products. Units are K.



**Supplement 2.** Zonal means of the standard deviation of shortwave radiation from 1986 to 1995 of the satellite-based product of the Surface Radiation Budget (SRB) project (Release 2.8, Gupta et al., 2006; http://eosweb.larc.nasa.gov/), our product (H08), and the ERA40 and NCC reanalysis products. Units are W/m<sup>2</sup>.

## Supplement 3 to Hydrological Research Letters 2, 65–69 (2008) Published online in J-STAGE (www.jstage.jst.go.jp/browse/HRL). DOI: 10.3178/HRL.2.65

**Supplement 3**. Parameters in exponential functions of snowfall catch ratios (Motoya *et al.*, 2002) for different gauge types.

Gauge type	a	b
Canadian Nipher	112.78	-0.08215
Chinese standard	100.00	-0.05600
Hellmann like*	120.95	-0.25425
Wild like	108.98	-0.25637
Tretyakov	105.38	-0.13125
Norwegian standard	106.95	-0.18622
Japanese (average)	96.63	-0.10040
NWS 8 inch like	98.00	-0.05405

\* Obtained from equation (4.5.3) in Goodison et al. (1998).