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Water vapor distribution in the atmosphere above the Nagoya detected by WVR (November – December,1999)

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We observe the water vapor in the atmosphere to make clear the GPS measurement error caused by the delay of the propagation delay. The water vapor in the atmosphere is measured along 29 points using the water vapor radiometer at Nagoya University every 20 minutes. When air mass is located high in east and low in west, the gradient of the distribution shows high in northwest and low in southeast, and its gradient is over 10mm in EPD with the angle of 30 degrees. When high pressure is passing the Japan Islands, the gradient of the air vapor distribution shows a variation in the direction of NW-SE. Air vapor gradient in the direction of NW-SE, it is suggested that the northwest wind is blowing mainly at the region and the geographical feature of the region.