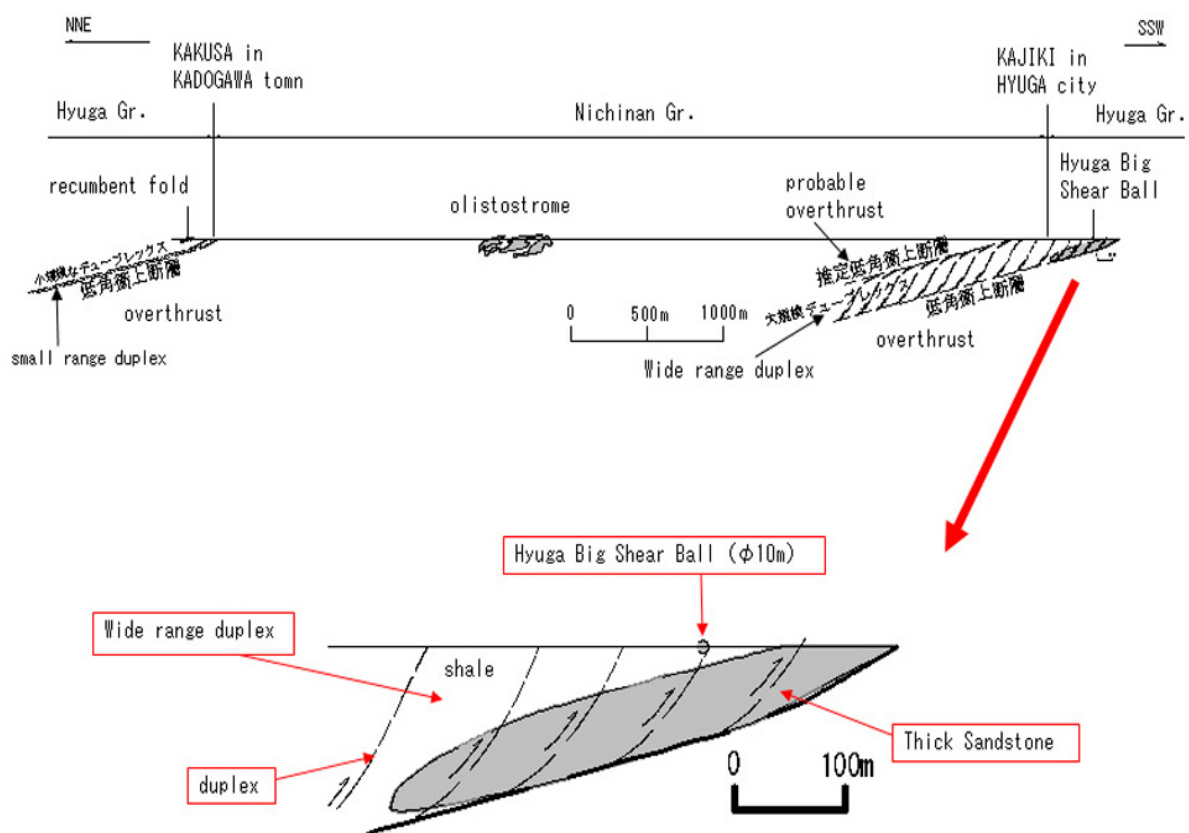


The relationship between the Sandstone Shear-balls and the faults

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The Shear-balls in Miyazaki Prefecture are existed in the fracture zone near the large-scale thrust in Shimanto Terrain.

The biggest Shear-ball(sandstone) at Hyuga City has a diameter of more than ten meters. And the Riedel shears (or S-C structure) that has many directions is developed in the shell that is the matrix of this biggest Shear-ball.

Besides , the turns of S structure is conceded on the edges of the biggest Shear-ball.

I guess that the Shear-ball is shaved by turns of S structure in the field that S structure shift to C structure one after another in the brittle-plastic transition shear zone of 8-14km below the ground. Therefore the Shear-balls in Shimanto Terrain are found in the duplex above the OOST from the stepdown of the decollement before.

And Many Shear-balls are formed above the Seismogenic Zone in the transition zone.

There are several slickensides of the different direction on the surface of a shear-ball.