



Fig.1

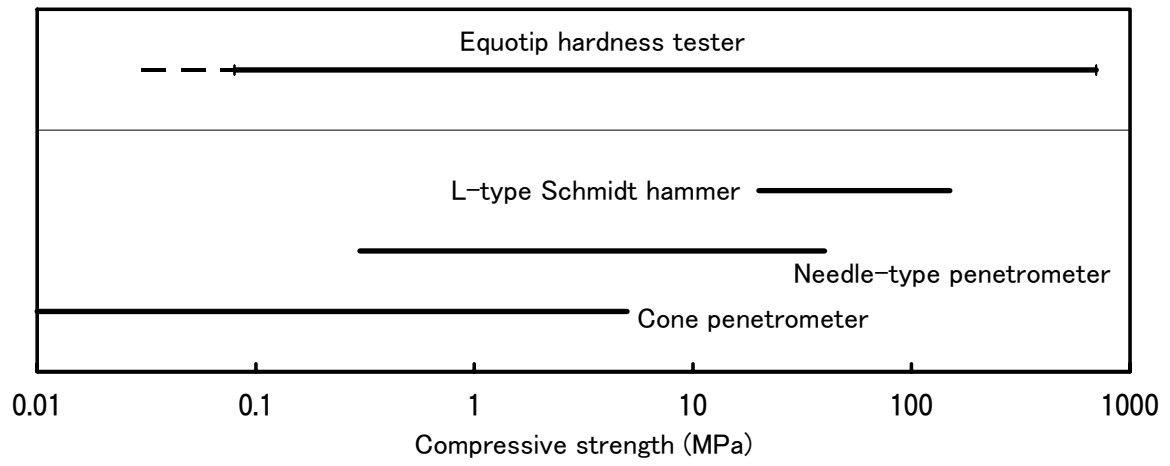


Fig. 2

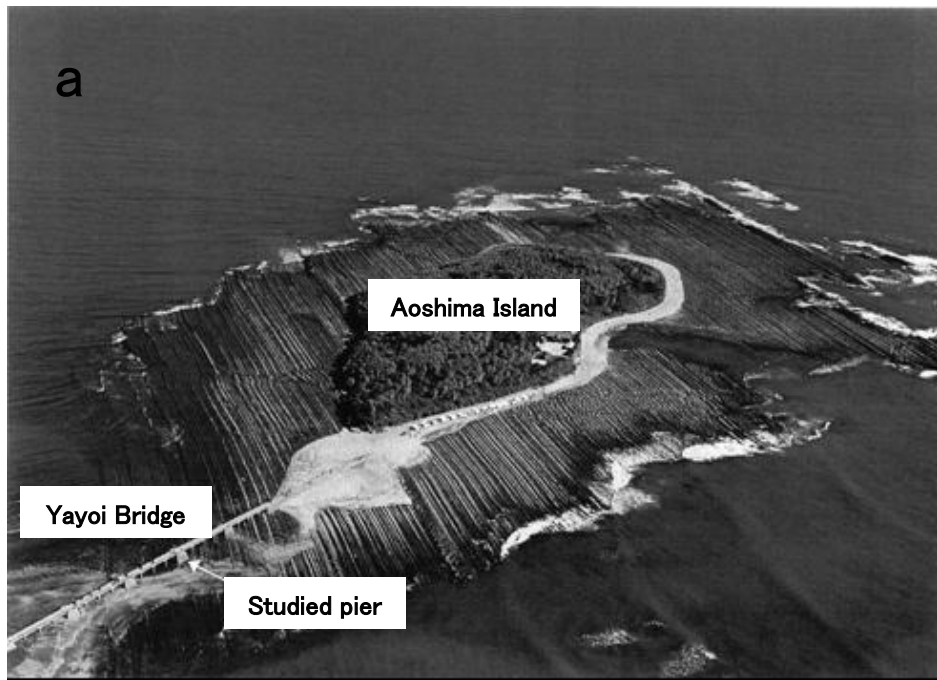


Fig. 3

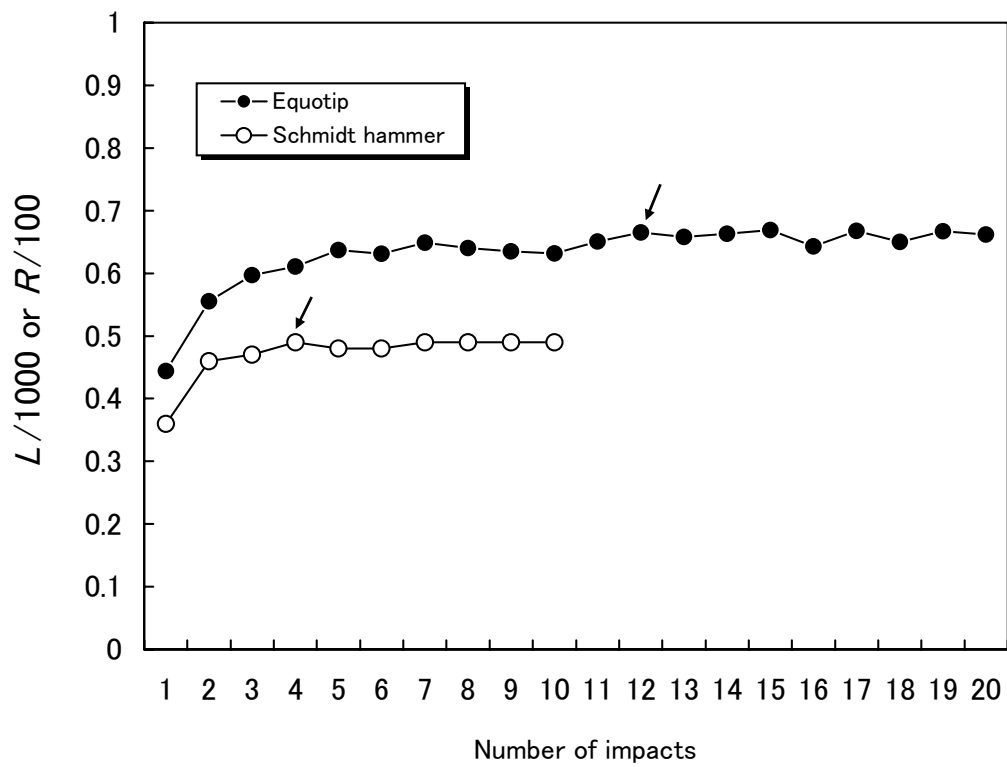


Fig. 4

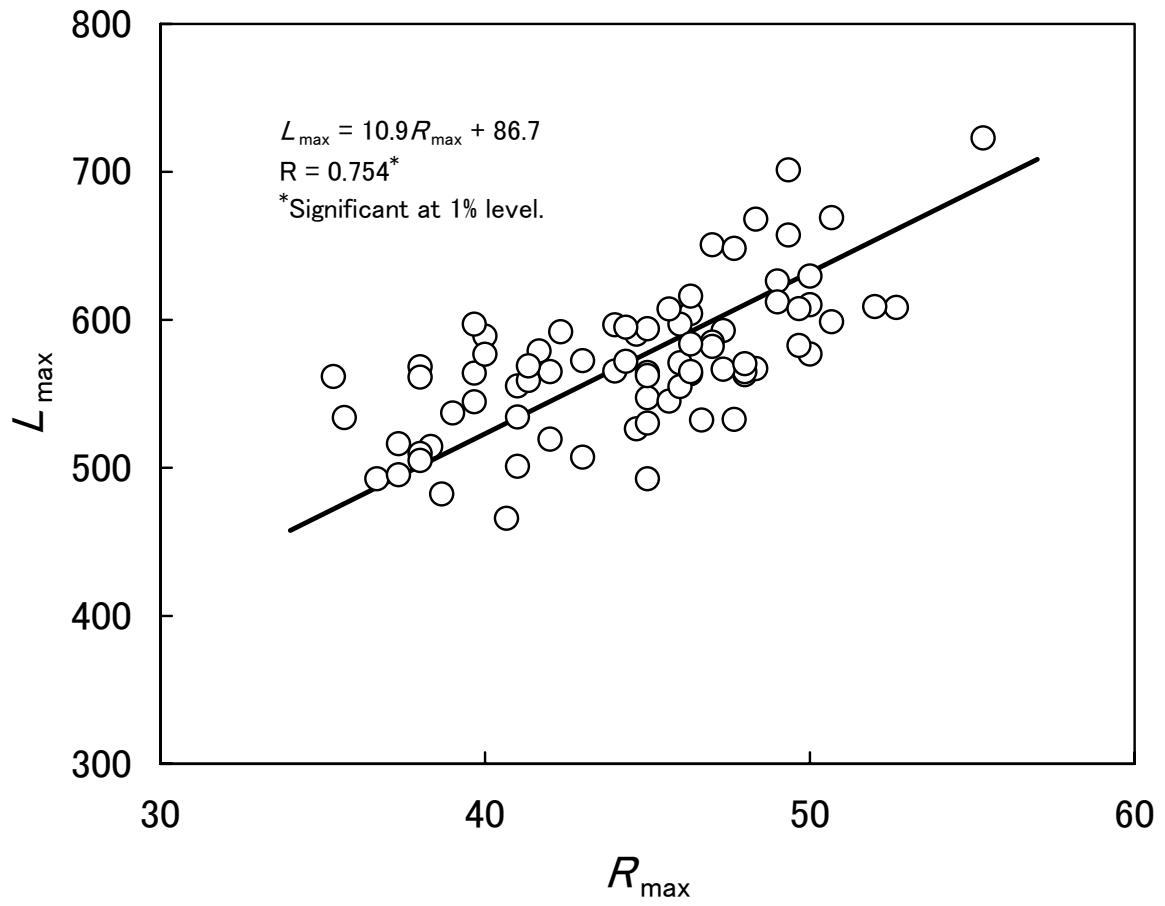


Fig. 5

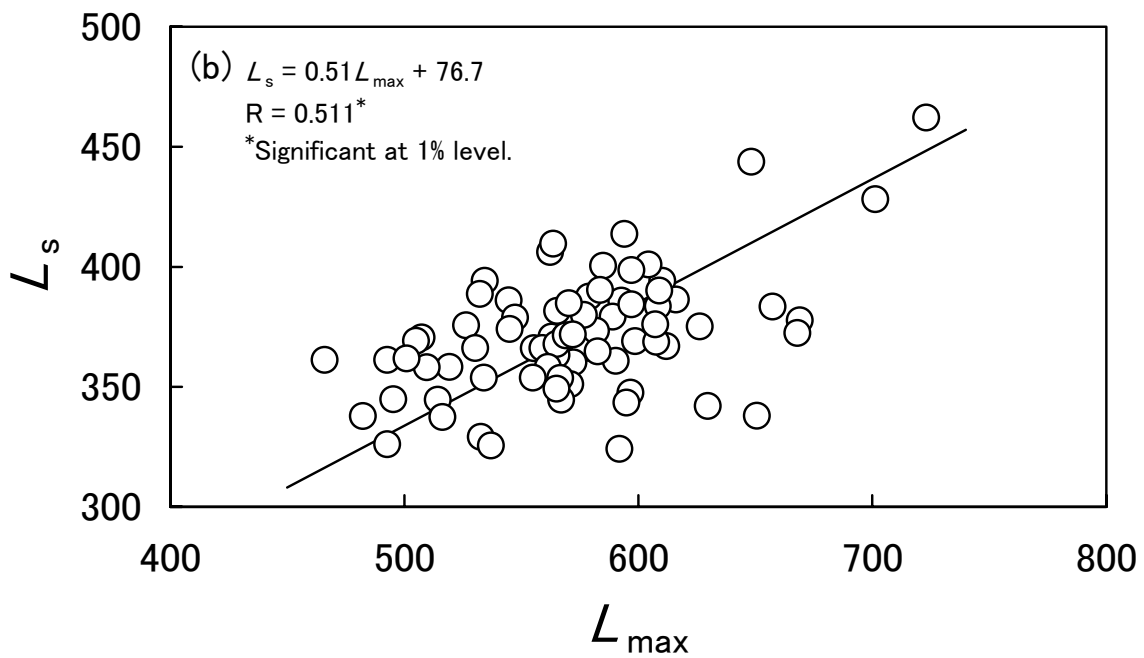
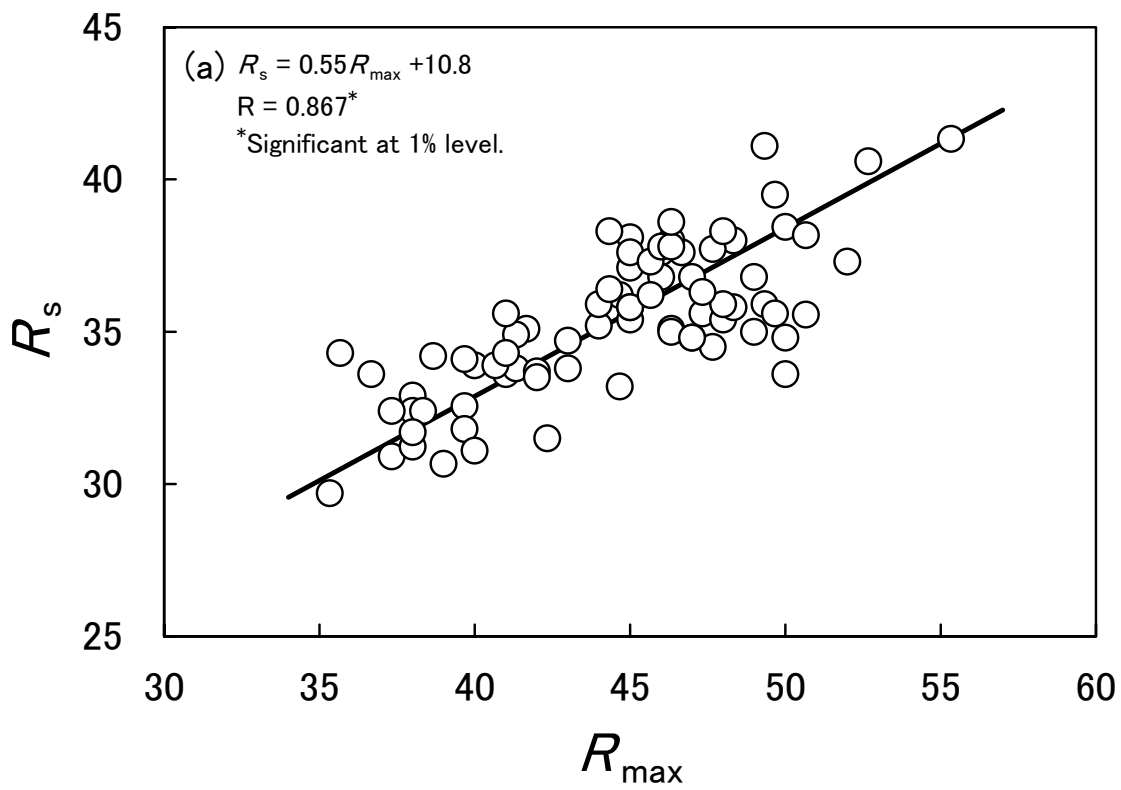


Fig. 6

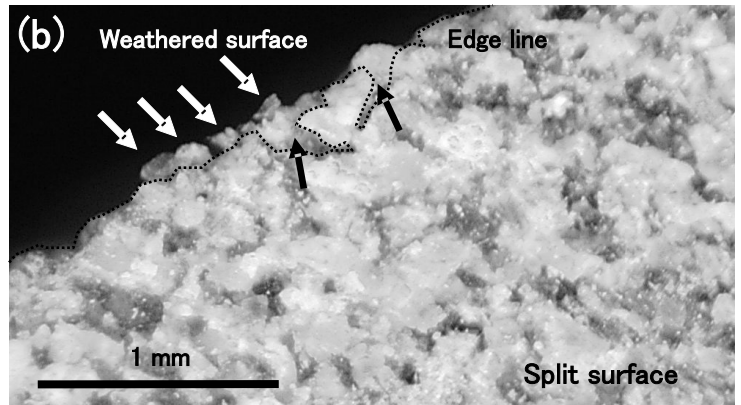
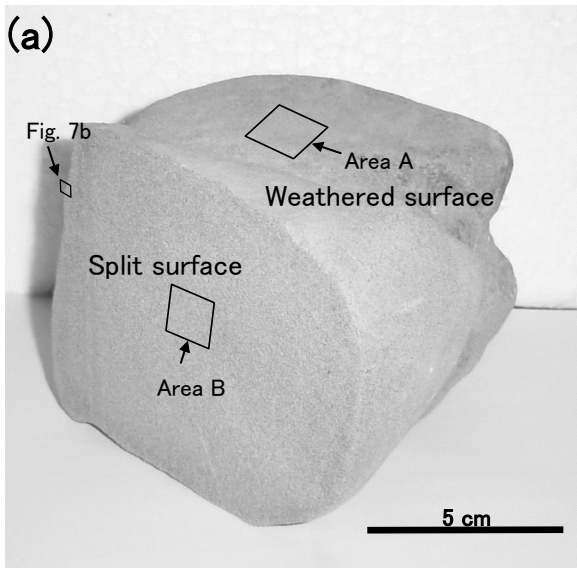


Fig. 7

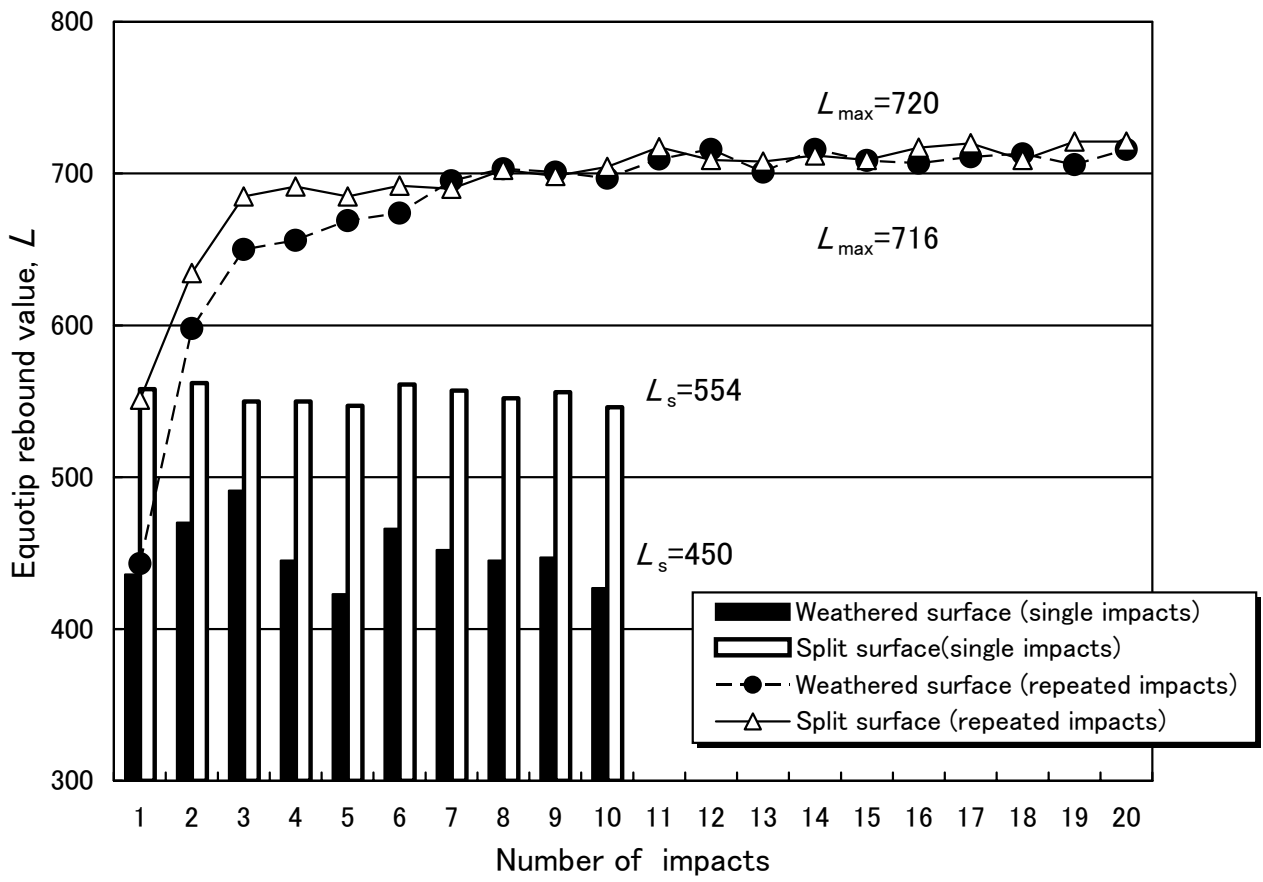


Fig. 8

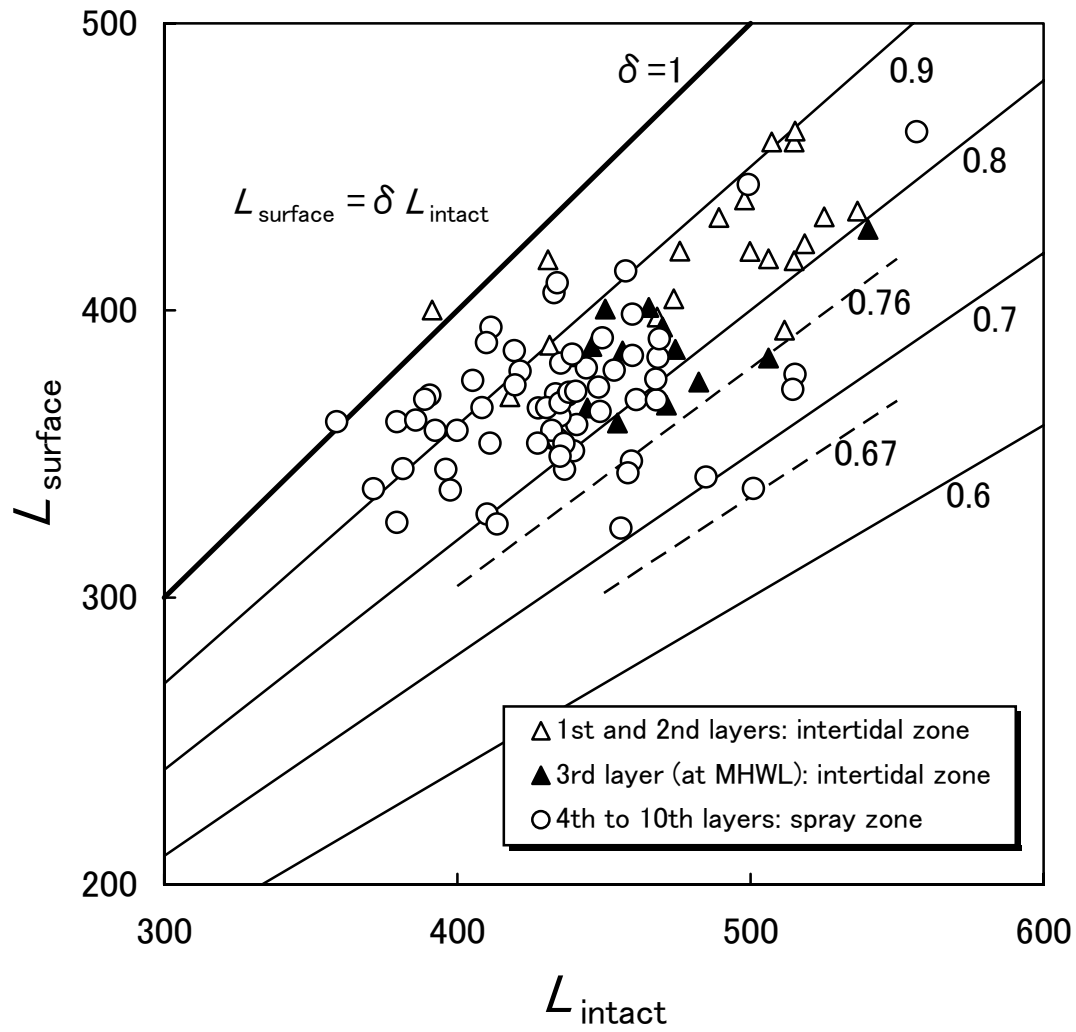


Fig. 9

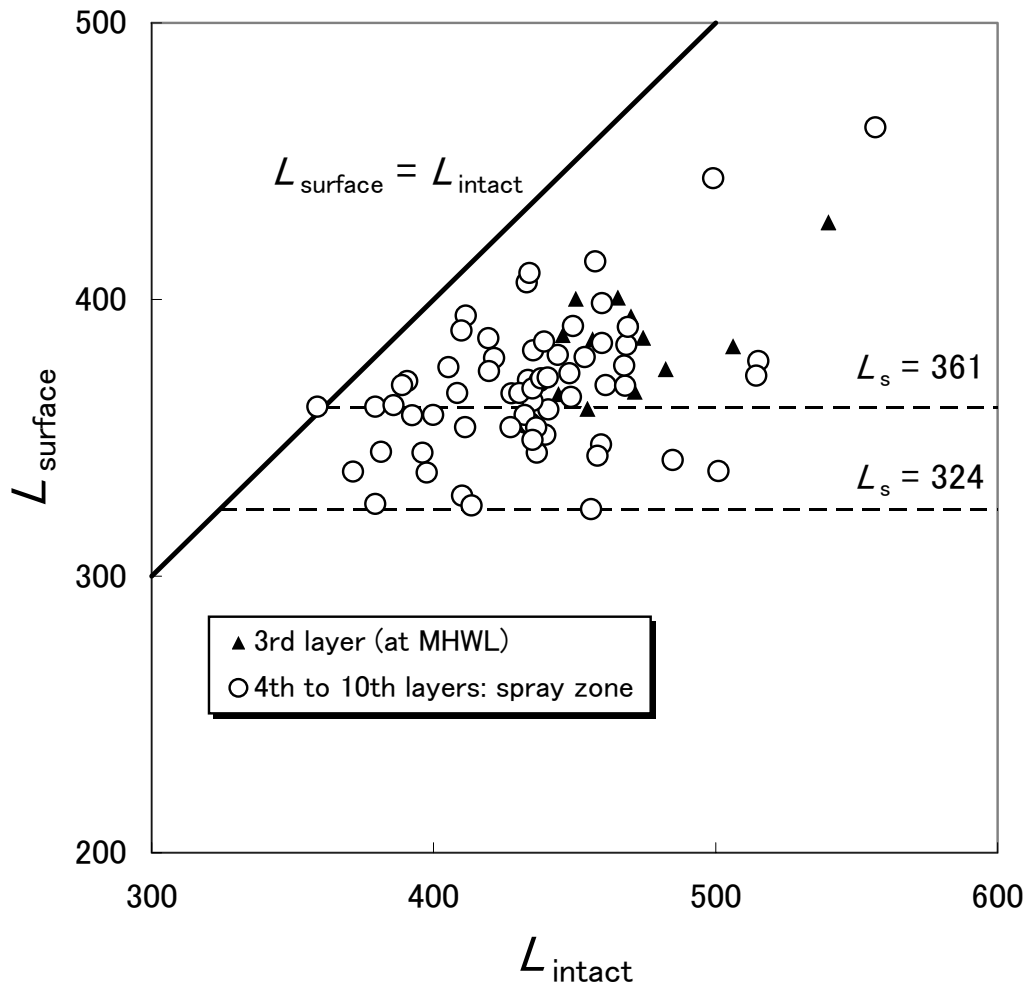


Fig. 10

Table I Some physical and mechanical properties of sandstone from Aoshima (after Takahashi, 1975).

Lithology		
Apparent specific gravity		2.69
Bulk specific gravity		2.51
Porosity (%)		6.9
Maximum water content (%)		2.5
Longitudinal wave velocity (km/sec)	dry*	3.16
	wet**	2.97
Young's modulus ($\times 10^4$ MPa)		2.5
Compressive strength (MPa)	dry	99.0
	wet	37.0
Tensile strength (MPa)	dry	7.2
	wet	2.5
Shear strength (MPa)	dry	15.1
	wet	5.4

*dry: oven-dried **wet: fully saturated

Table II Location of sandstone block layer and the average depth (D_{38}) during 38 years for each layer (Takahashi *et al.*, 1994).

Altitude h (cm)	Layer	Number of blocks	Mean depth D_{38} (cm)	Standard deviation σ
251	10	9	10.5	2.1
224	9	9	10.3	3.3
197	8	9	11.4	2.1
170	7	9	11.6	2.0
143	6	9	13.3	3.5
116	5	10	14.4	3.4
89	4	11	13.4	3.9
62	3	12	11.5	3.6
35	2	12	1.0	0.7
8	1	12	1.0	0.8