

# Responses of Stream Water Temperature to Water Levels in Forested Catchments of South Korea

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## Supplementary Materials

**Table S1.** Summary of observed sites in forested catchments.

Site	Location	Latitude	Longitude	Area (ha)	Underlying geology	Altitude (m)	Slope gradients (°)*	Forest type
C1	Gyeonggi-do	37°34'N	127°32'E	13.2	Metamorphic rock	681–1009	31.2	Broadleaved forest
C2	Chungcheong-do	36°38'N	127°40'E	15.0	Sedimentary rock	303–545	27.0	Mixed forest
C3	Gyeongsang-do	35°59'N	128°44'E	18.5	Igneous rock	494–716	25.0	Broadleaved forest
C4	Gyeonggi-do	37°17'N	127°17'E	34.3	Metamorphic rock	260–637	34.2	Broadleaved forest
C5	Gangwon-do	37°28'N	128°30'E	40.6	Sedimentary rock	960–1368	27.0	Broadleaved forest
C6	Jeolla-do	35°09'N	127°10'E	40.7	Metamorphic rock	326–765	29.9	Broadleaved forest
C7	Gyeongsang-do	36°17'N	128°53'E	46.2	Sedimentary rock	386–600	29.8	Mixed forest
C8	Gyeonggi-do	37°34'N	127°31'E	47.0	Metamorphic rock	546–919	20.4	Coniferous forest
C9	Jeolla-do	35°38'N	127°35'E	56.5	Metamorphic rock	745–1235	34.9	Broadleaved forest
C10	Gyeongsang-do	35°20'N	127°53'E	59.0	Igneous rock	495–1000	32.0	Broadleaved forest
C11	Gyeongsang-do	35°03'N	128°49'E	101.8	Metamorphic rock	861–1340	31.2	Broadleaved forest
C12	Gyeongsang-do	35°00'N	129°12'E	103.0	Metamorphic rock	472–915	28.9	Mixed forest
C13	Gangwon-do	37°58'N	128°22'E	105.6	Igneous rock	490–845	32.8	Mixed forest
C14	Jeolla-do	35°44'N	127°28'E	106.8	Metamorphic rock	511–1003	30.4	Broadleaved forest
C15	Gangwon-do	37°14'N	128°09'E	167.1	Metamorphic rock	435–900	24.9	Mixed forest

<sup>8</sup> C16	Jeolla-do	35°06'N	127°35'E	169.1	Metamorphic rock	640–1149	28.0	Broadleaved forest
C17	Jeolla-do	35°44'N	127°38'E	191.8	Igneous rock	570–1065	30.4	Mixed forest
C18	Gangwon-do	37°56'N	128°40'E	198.4	Metamorphic rock	210–600	27.3	Mixed forest
C19	Gangwon-do	38°04'N	128°22'E	199.2	Igneous rock	580–1155	29.6	Mixed forest
C20	Chungcheong-do	36°38'N	127°54'E	208.9	Igneous rock	325–901	27.7	Mixed forest
C21	Gangwon-do	37°27'N	128°29'E	219.2	Sedimentary rock	627–1190	23.4	Mixed forest
C22	Gangwon-do	38°02'N	127°28'E	281.4	Igneous rock	430–915	27.6	Mixed forest

Note: The observed 22 sites are conducted in two catchment categories, including catchment areas less than and or equal to 100 ha ( $FC_{\leq 100}$ ) and catchment areas over 100 ha ( $FC_{>100}$ ).  $FC_{\leq 100}$  and  $FC_{>100}$  are included from C1 to C10 and C11 to C22, respectively. Asterisk (\*) indicates the mean value of dominant slope gradients.

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