

Relationship between changes in volumetric strain and ground water level at the Mikkabi station

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A special kind of strain change is often observed at the Mikkabi station in summer time. When the strain change is observed, ground water level in the same well changes as well. The patterns are, however, very different each other. Seeing that the changes in the water level are delayed a little against the strain changes, we calculated differential of the water level and compared it with the strain change and found that they were very similar. This fact can be explained by regarding that stream of ground water is generated by the same stress field that causes the strain change. We expect that this finding will give a clue to understand slowly decaying strain changes that are commonly observed at many stations.