

ABSTRAK

Penelitian ini membahas tentang angkutan sedimen di Sungai Sedau Kecamatan Singkawang Selatan, Kota Singkawang. Sungai Sedau mengalami sedimentasi yang berdampak pada lalu lintas kapal yang melewati sungai. Untuk mengetahui karakteristik sedimen dan besarnya angkutan sedimen di Sungai Sedau, data yang digunakan yaitu data batimetri, kecepatan arus, sedimen dasar, sedimen melayang, dan data curah hujan. Hasil penelitian menunjukkan karakteristik sedimen di Sungai Sedau pada titik 1 berjenis tanah liat berlanau, titik 2 dan 3 berjenis tanah liat berlempung, dan titik 4 berjenis tanah liat. Hasil perhitungan angkutan sedimen dasar dengan menggunakan metode Meyer Peter Muller tertinggi berada di hilir sungai sebesar $7.129 \text{ m}^3/\text{hari}$. Hasil perhitungan angkutan sedimen melayang dengan menggunakan metode sesaat tertinggi berada di hilir sungai sebesar $62.535 \text{ m}^3/\text{hari}$.

Kata Kunci: Angkutan Sedimen, Sedimen, Sungai Sedau

ABSTRACT

This research discussed sediment transport in the Sedau River, South Singkawang District, Singkawang City. Sedau River is experiencing sedimentation which has an impact on ship traffic passing through the river. To determine the characteristics of sediment and the amount of sediment transport in the Sedau River, The data used are bathymetry data , current velocity, bed load, suspended load, and rainfall data. The results showed the sediment characteristics the Sedau River at point 1 of the type of silty clay, point 2 and 3 of the type of loamy clay, and point 4 of the type of clay. The results of transport bed load used the Meyer Peter Muller method higher be downstream of the river of 7,129 m³/day. The result of transport suspended load used the instantaneous method higher be downstream of the river of 1 of 62.535 m³/day.

Keywords: *Sediment transport, Sediment, Sedau River*