

Search for time-dependent fluctuations in cosmic rays spectra with the AMS01 detector

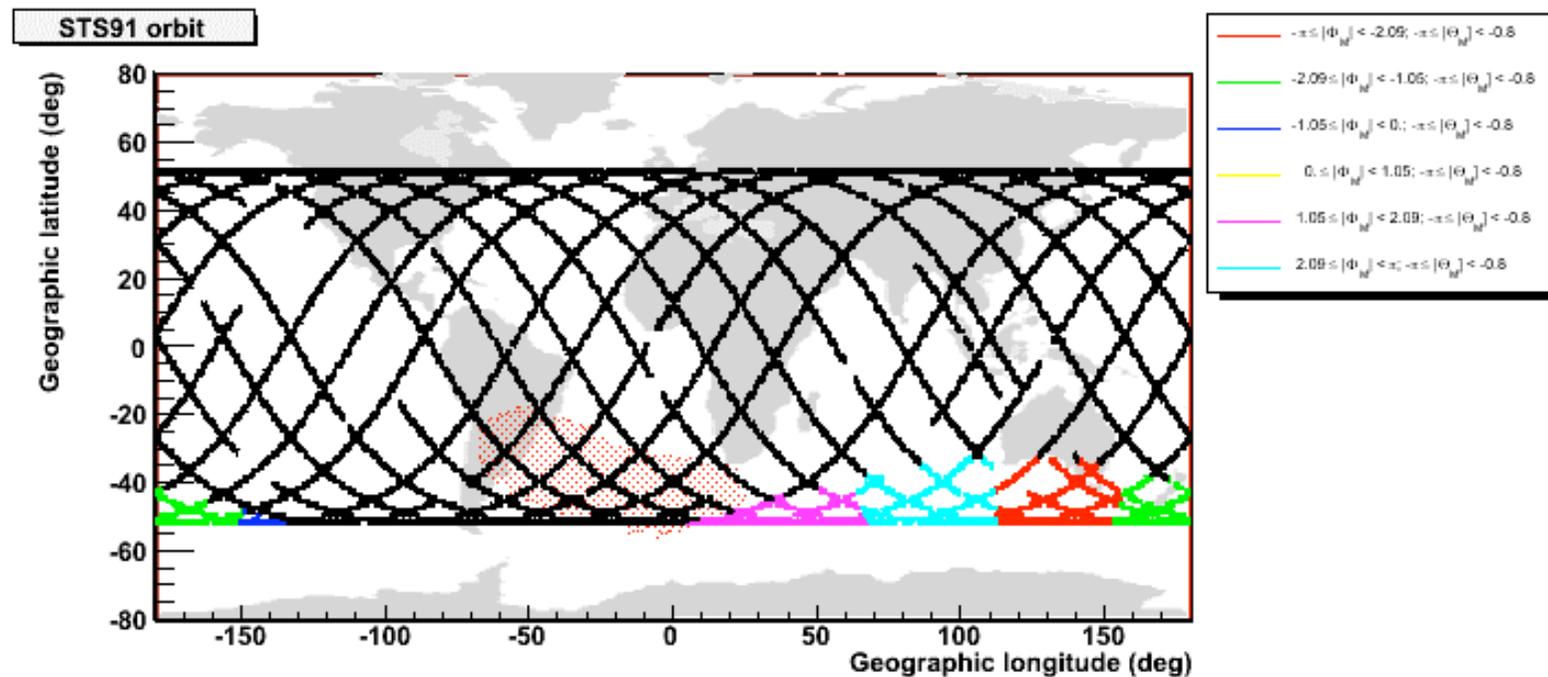
Proton flux fluctuations:

Data taking period: 8/06/98 17h52 -> 9/06/98 17h33

AMS Z-axis pointing 1° within Zenith:

Searching for time-dependent fluctuations: strategy

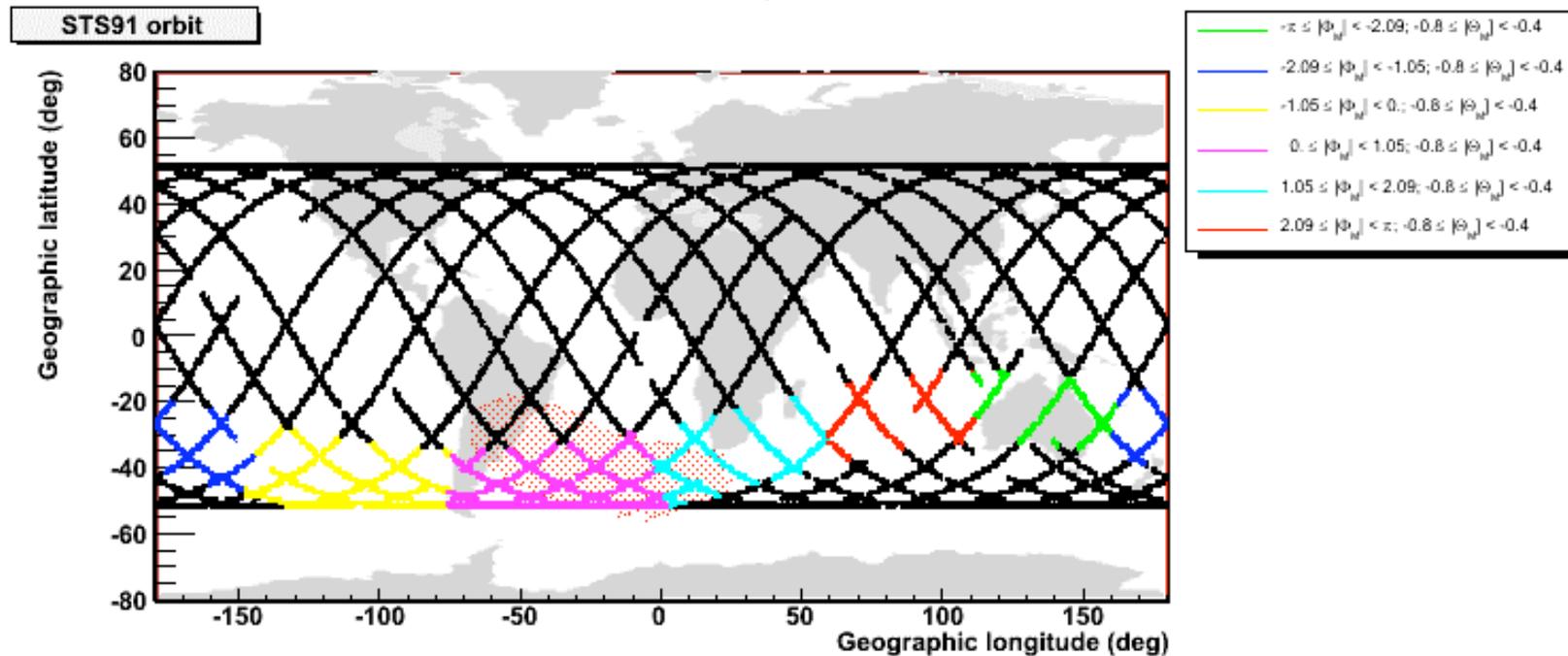
1. Estimate mean flux in 6X6 bins of Θ_M Φ_M over an entire data taking period at fixed AMS Z-axis pointing



2. Compare with actual flux

Searching for time-dependent fluctuations: strategy

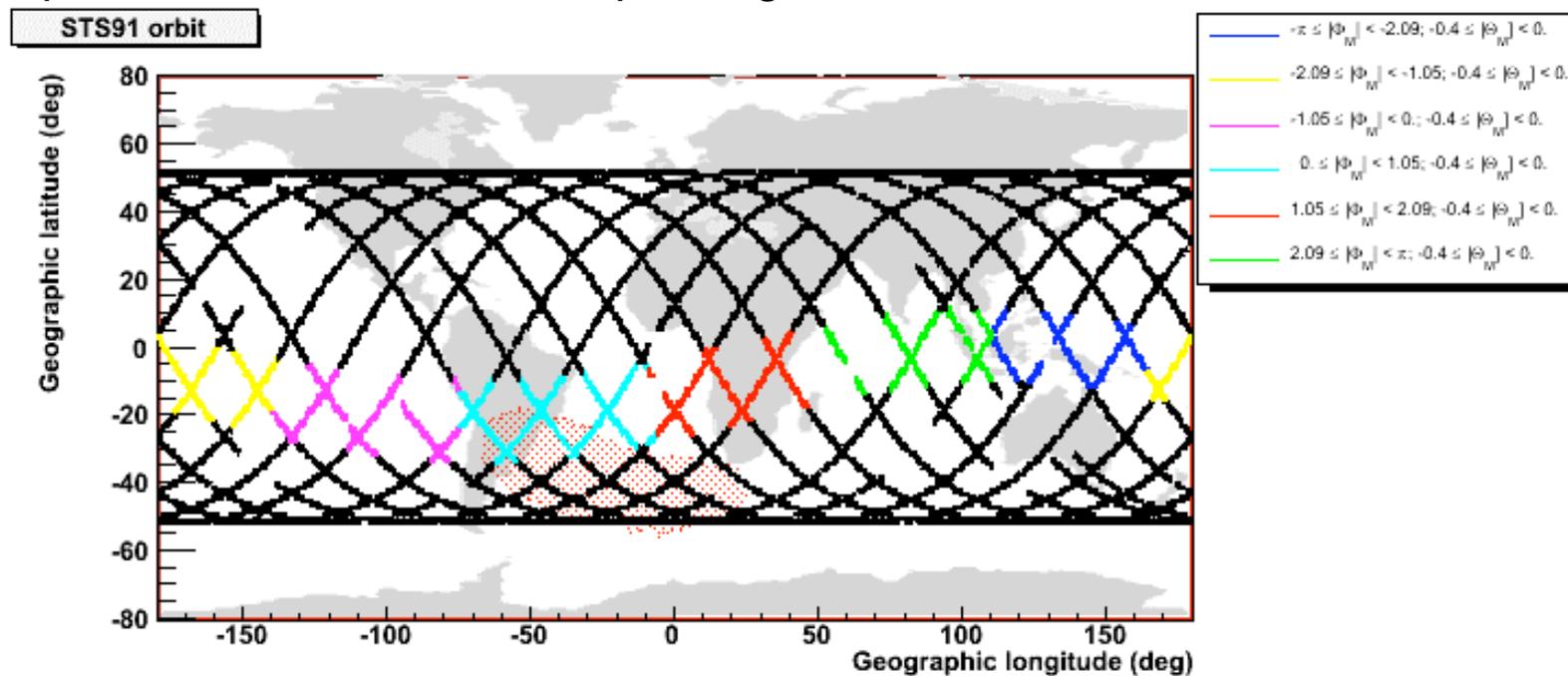
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Searching for time-dependent fluctuations: strategy

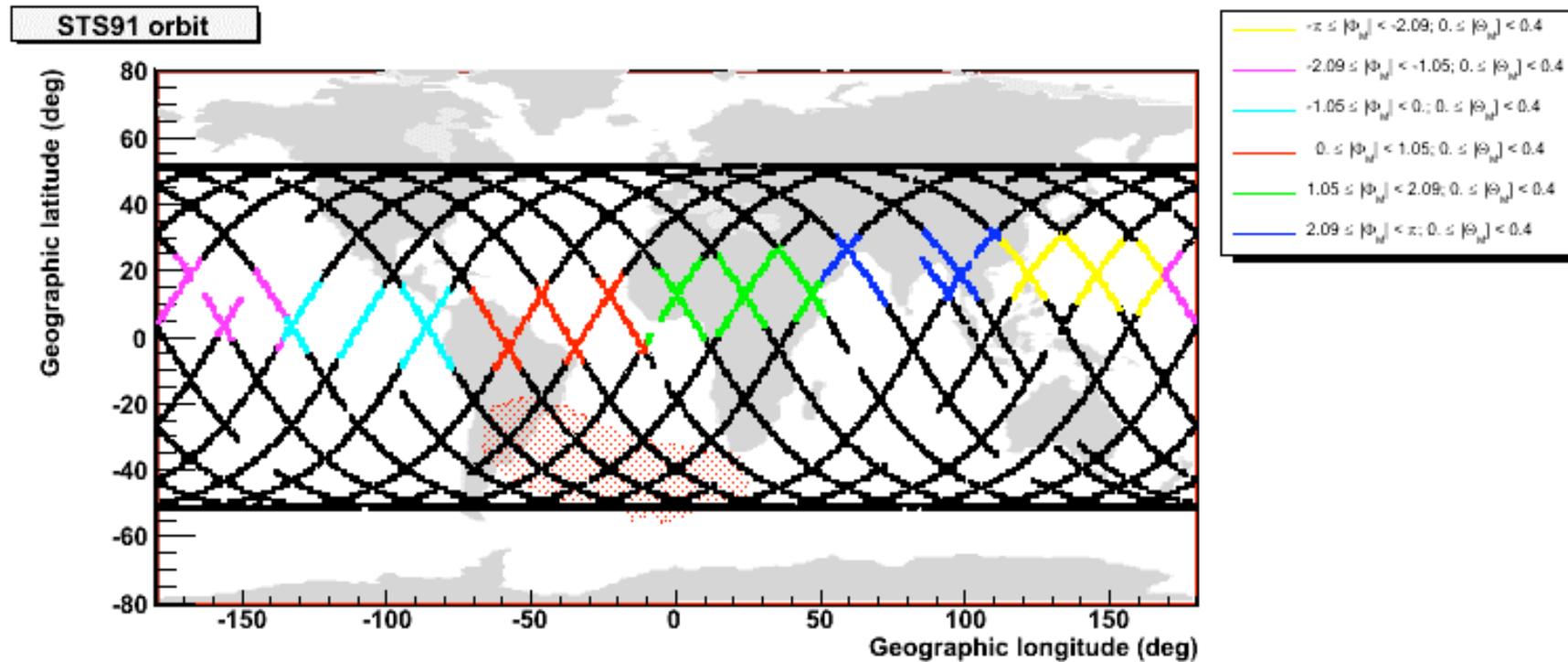
1. Estimate mean flux in 6X6 bins of $\Theta_M \Phi_M$ over an entire data taking period at fixed AMS Z-axis pointing



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Searching for time-dependent fluctuations: strategy

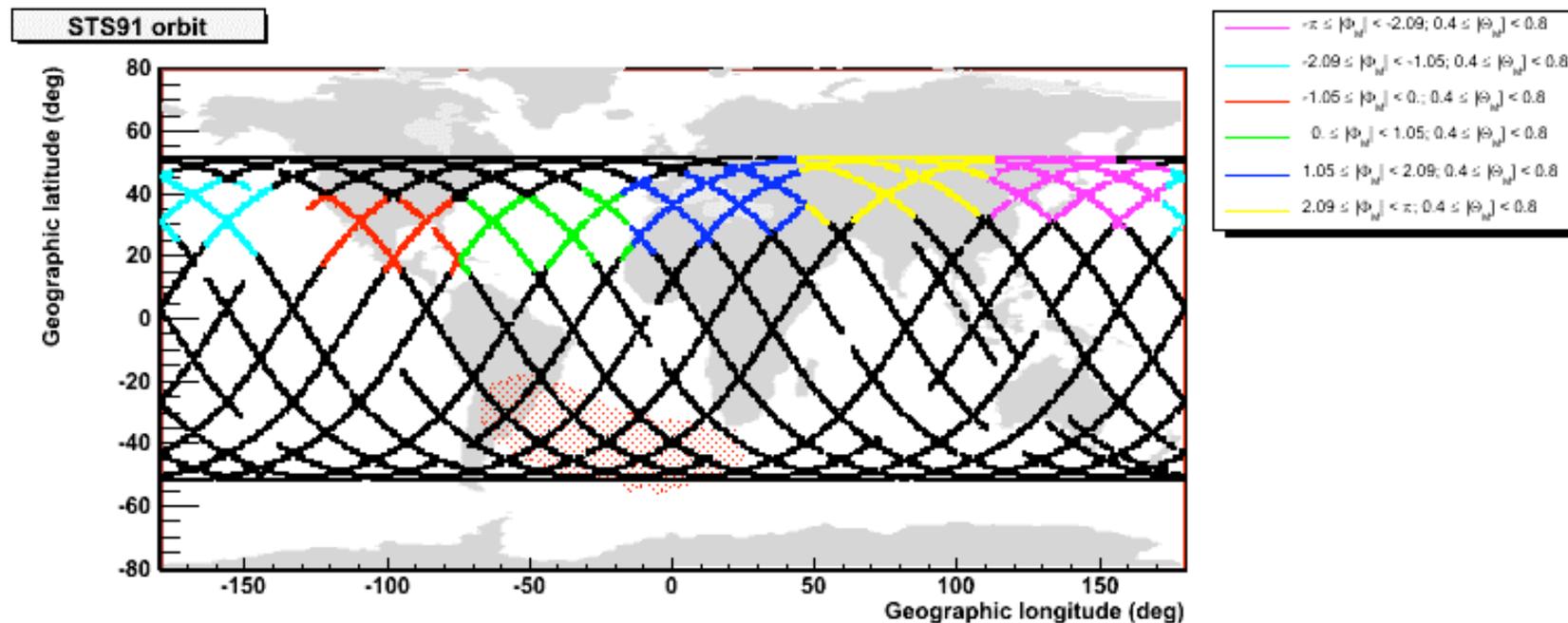
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Searching for time-dependent fluctuations: strategy

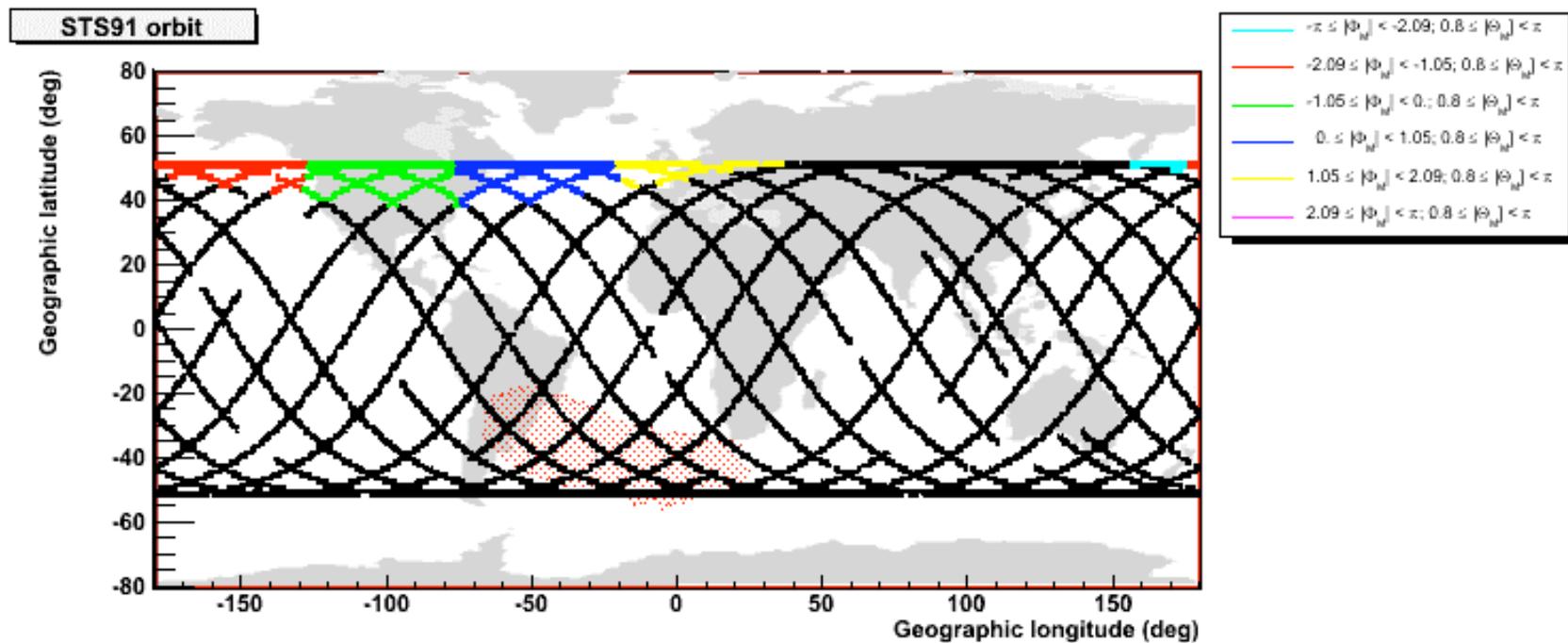
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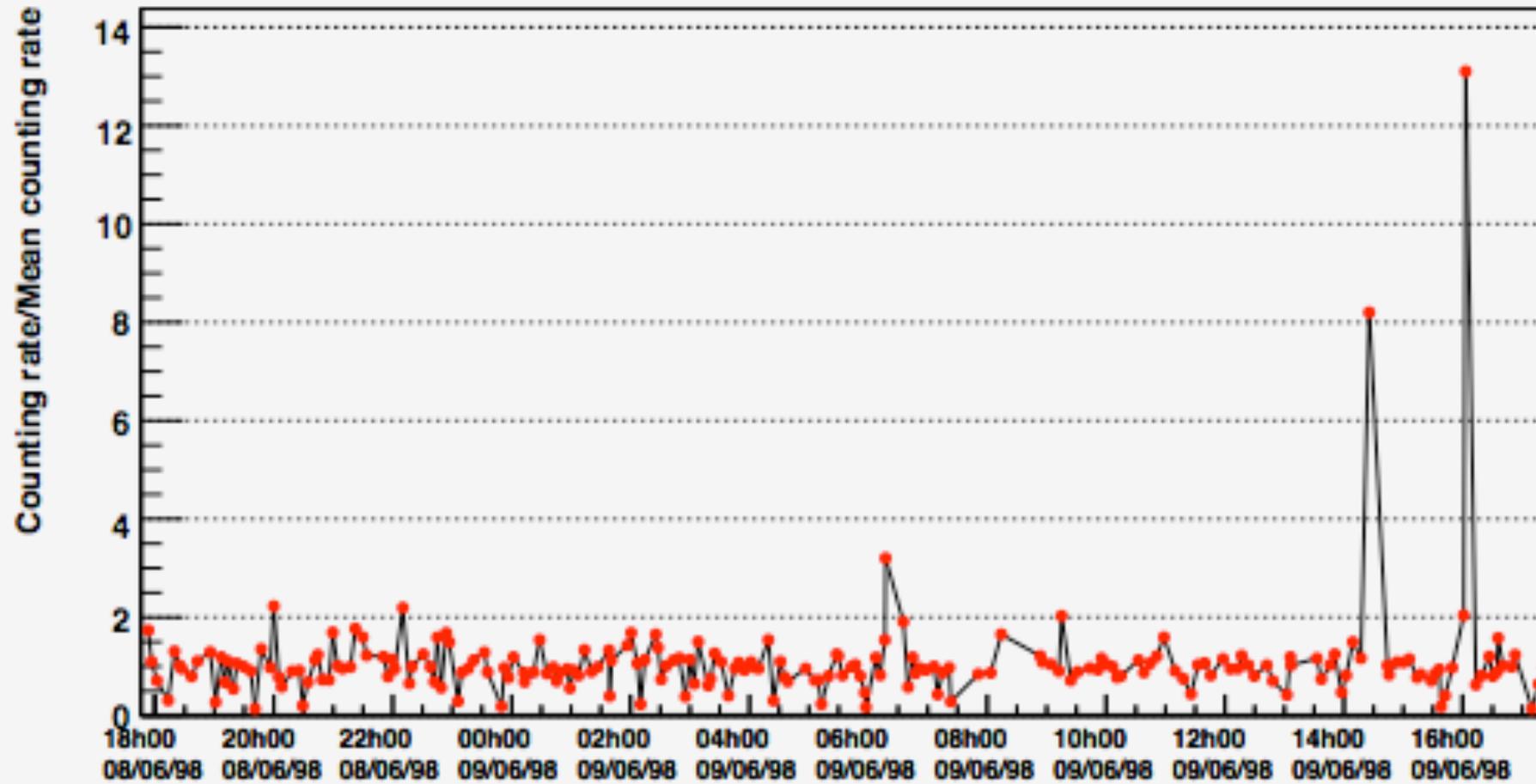
Searching for time-dependent fluctuations: strategy

1. Estimate mean flux in 6×6 bins of Θ_M Φ_M over an entire data taking period at fixed AMS Z-axis pointing

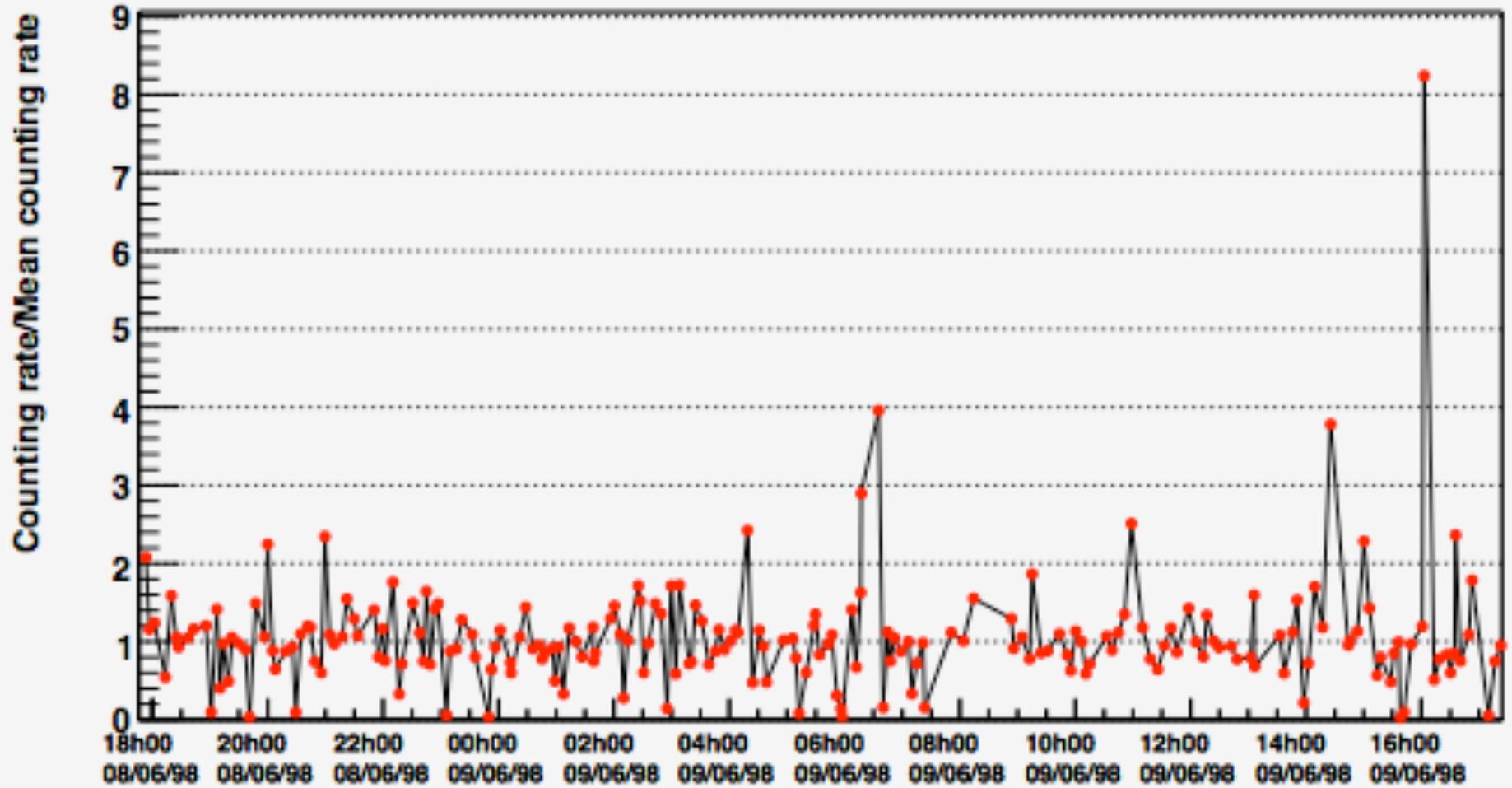


2. Compare with actual flux

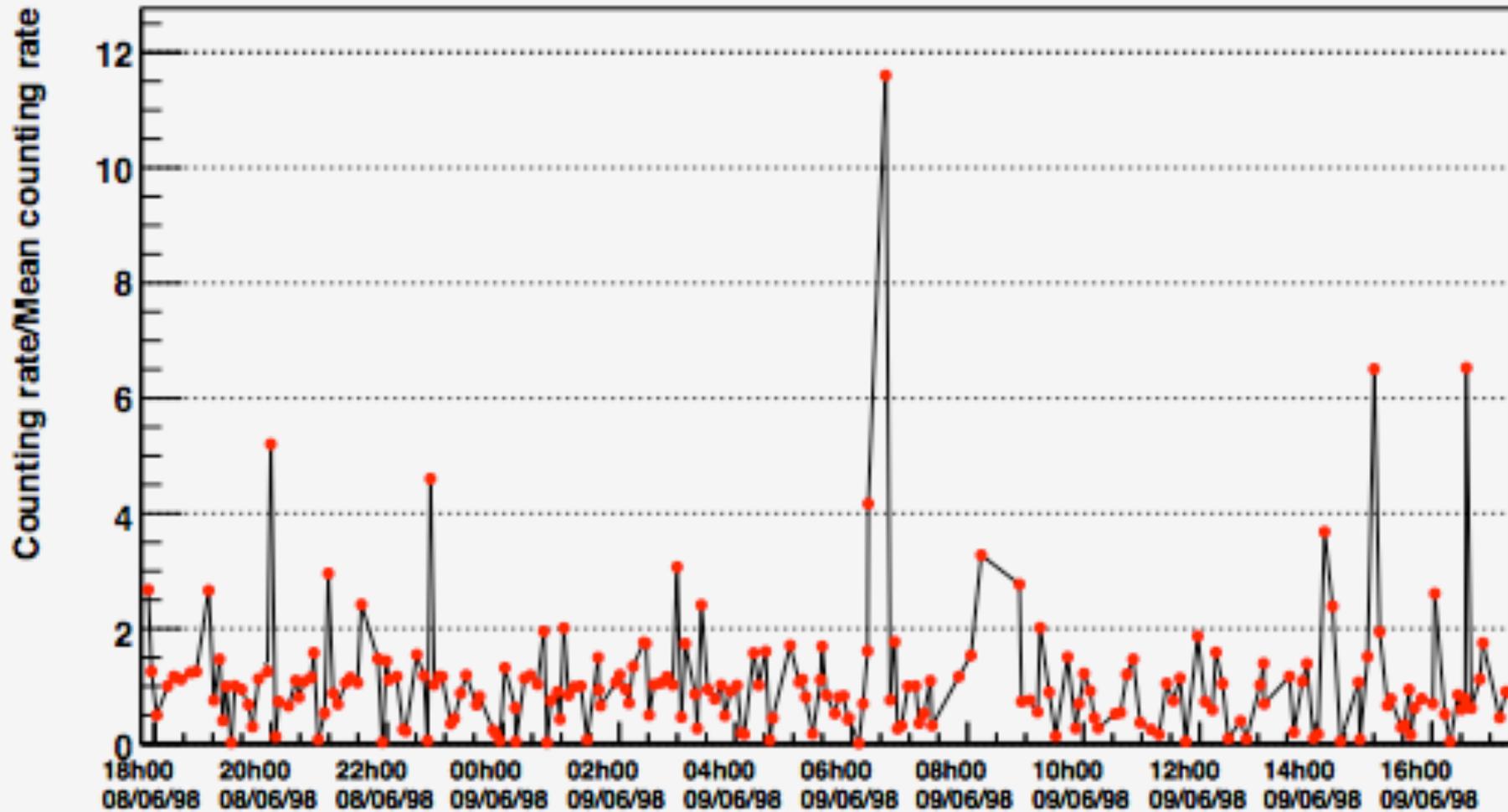
Protons downward: Ek 0.1-> 0.3 GeV



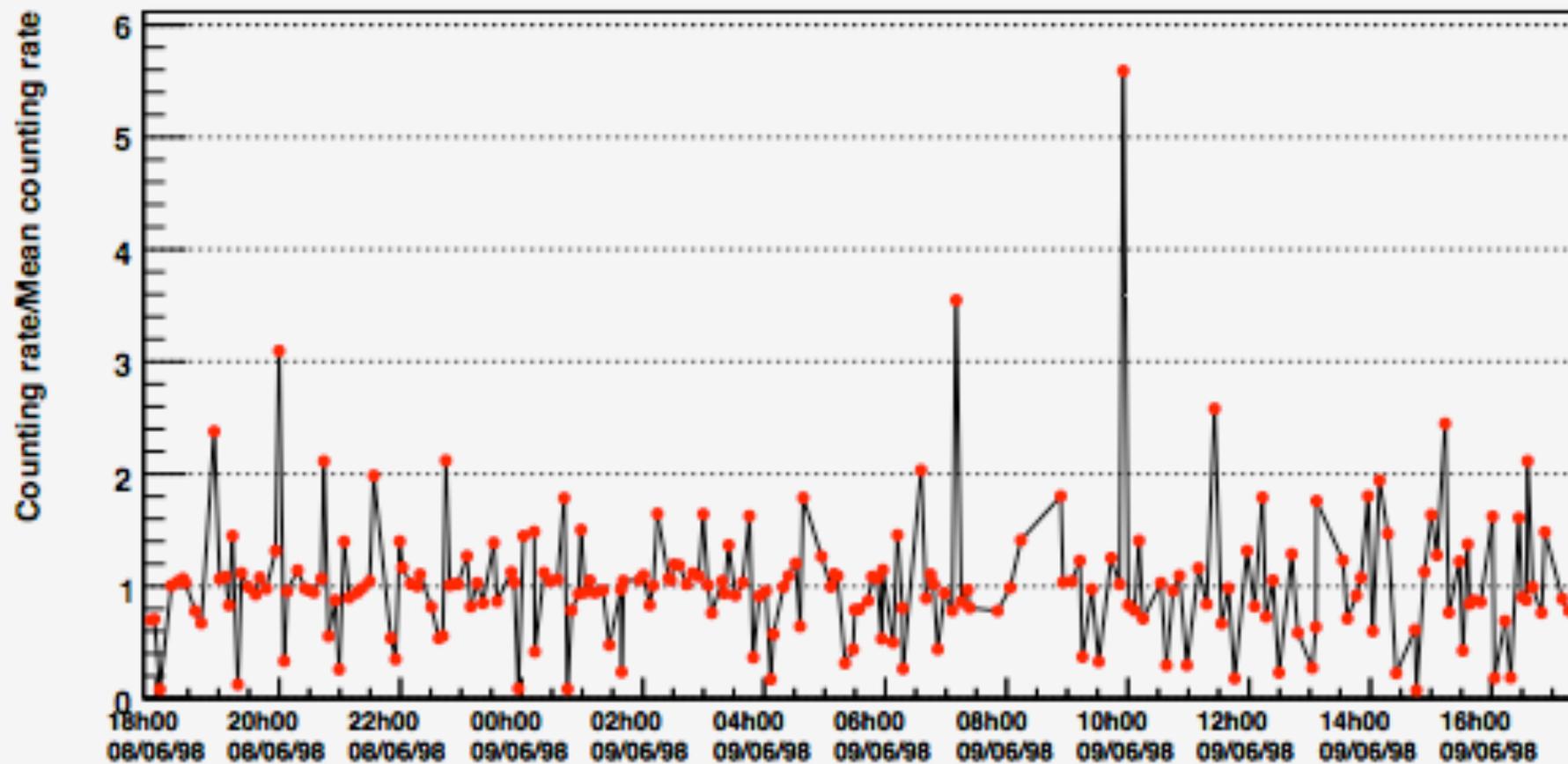
Protons downward: Ek 0.3-> 1. GeV



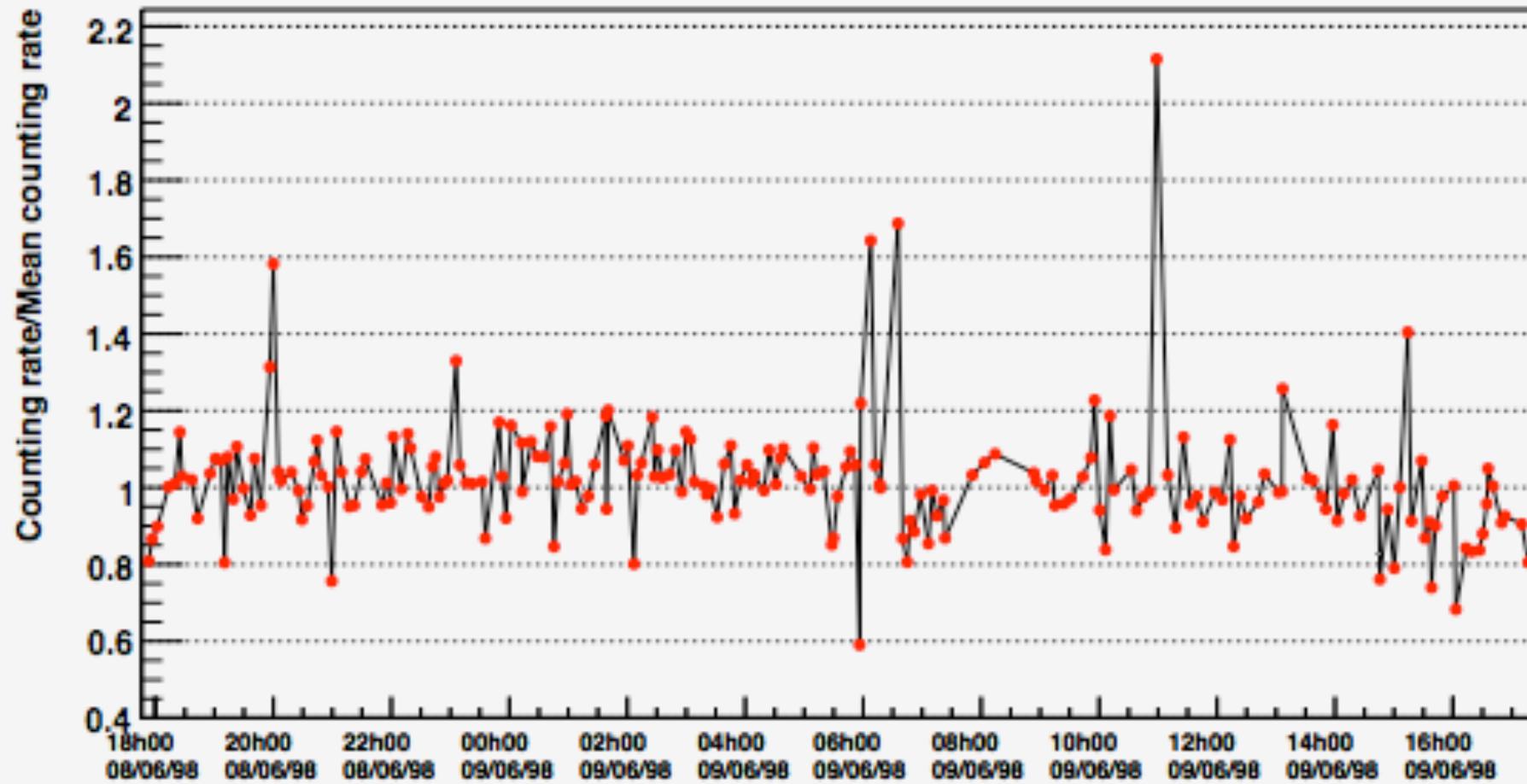
Protons downward: Ek 1.-> 3. GeV



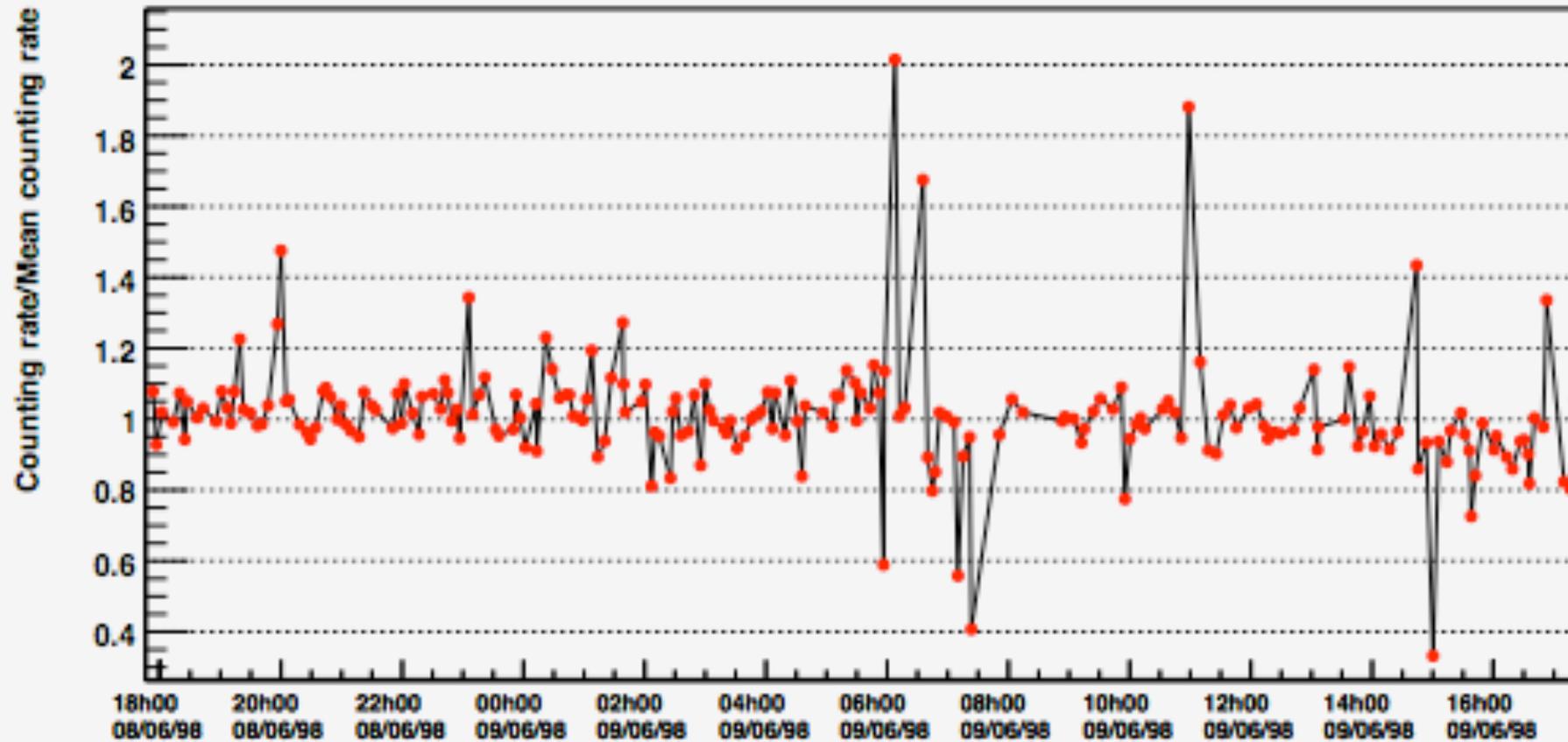
Protons downward: Ek 3.-> 10. GeV



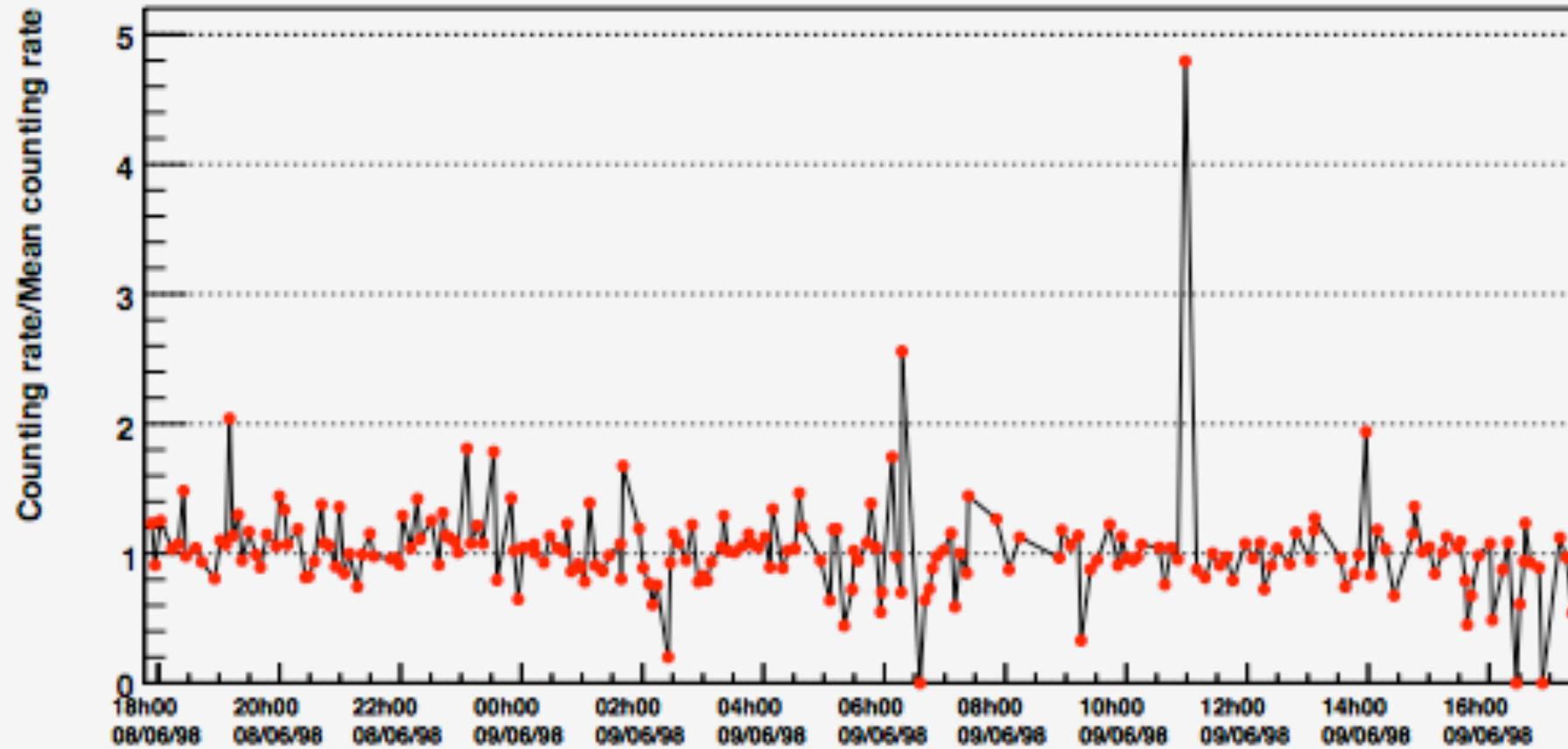
Protons downward: Ek 10.-> 30. GeV



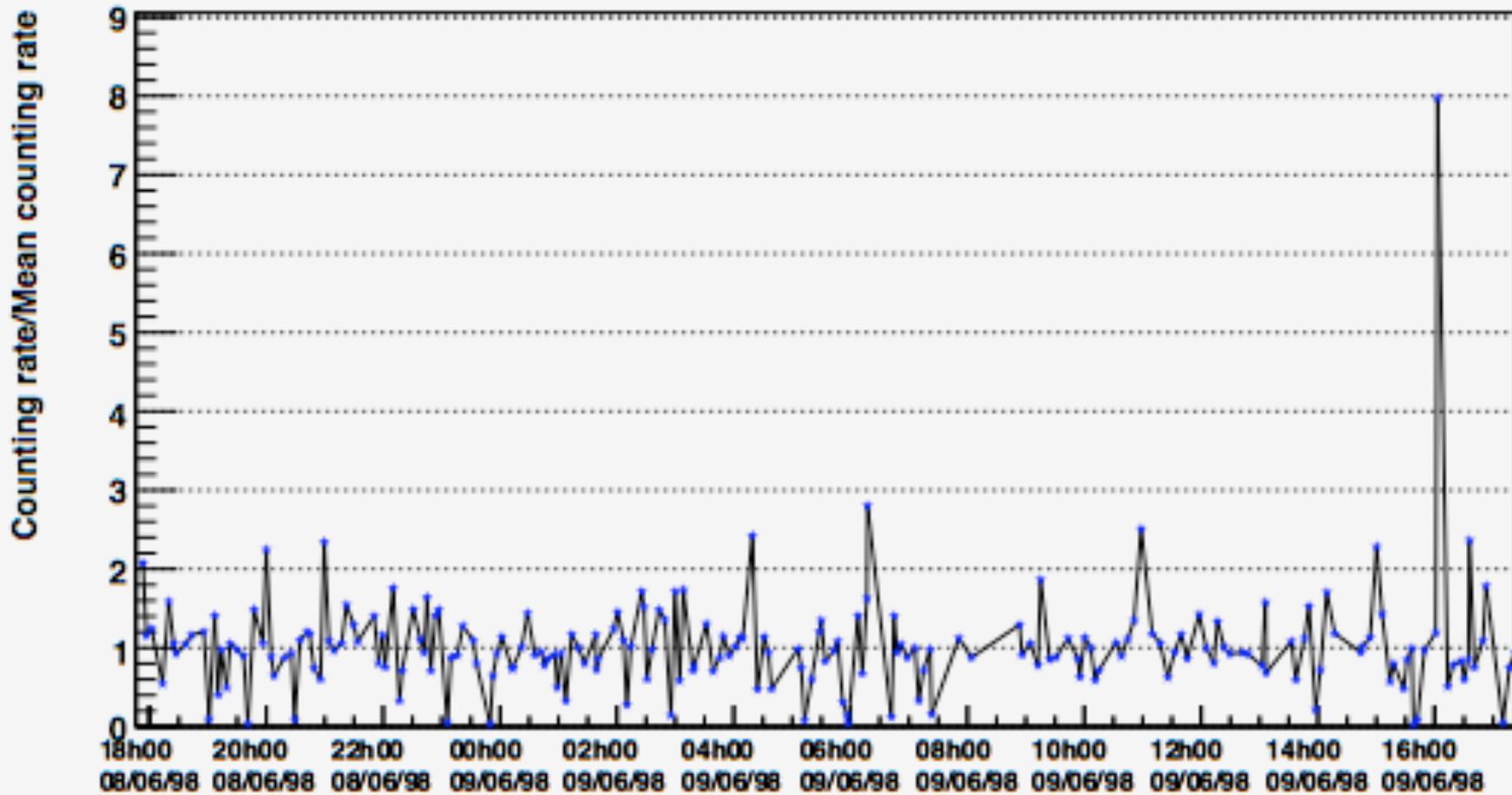
Protons downward: Ek 30.-> 100. GeV



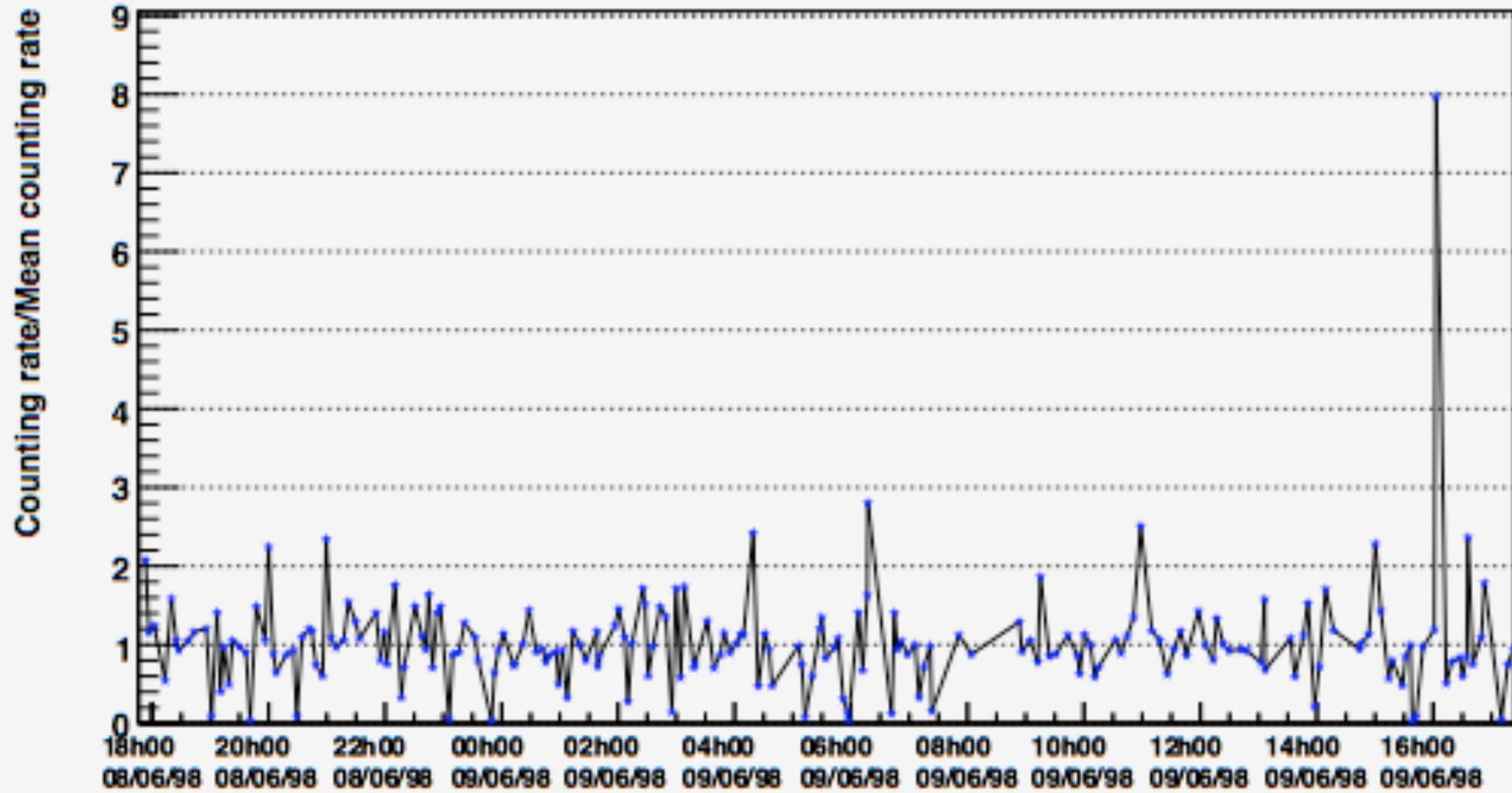
Protons downward: Ek 100.-> 200. GeV



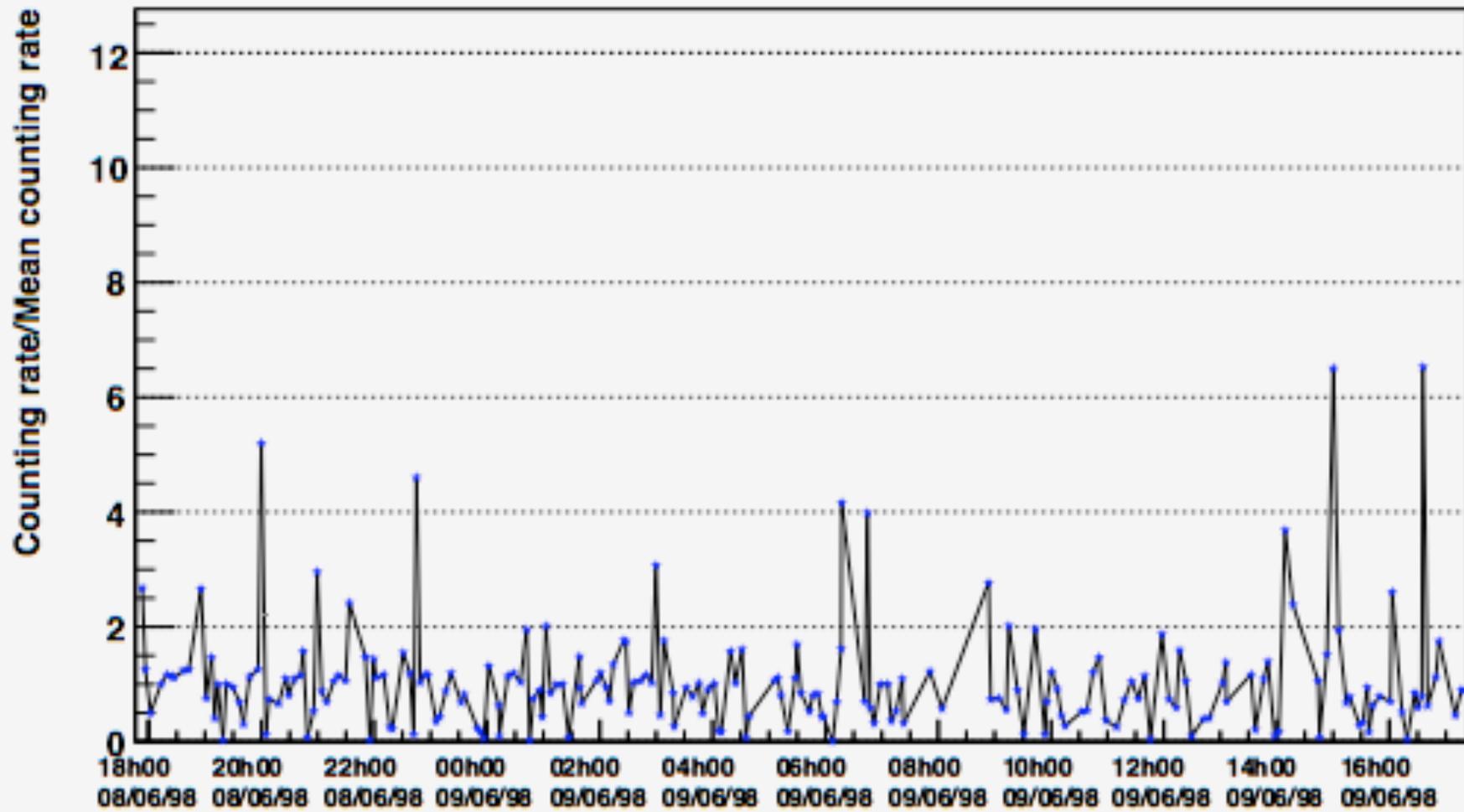
Protons downward: Ek 0.3-> 1. GeV (SAA excluded)



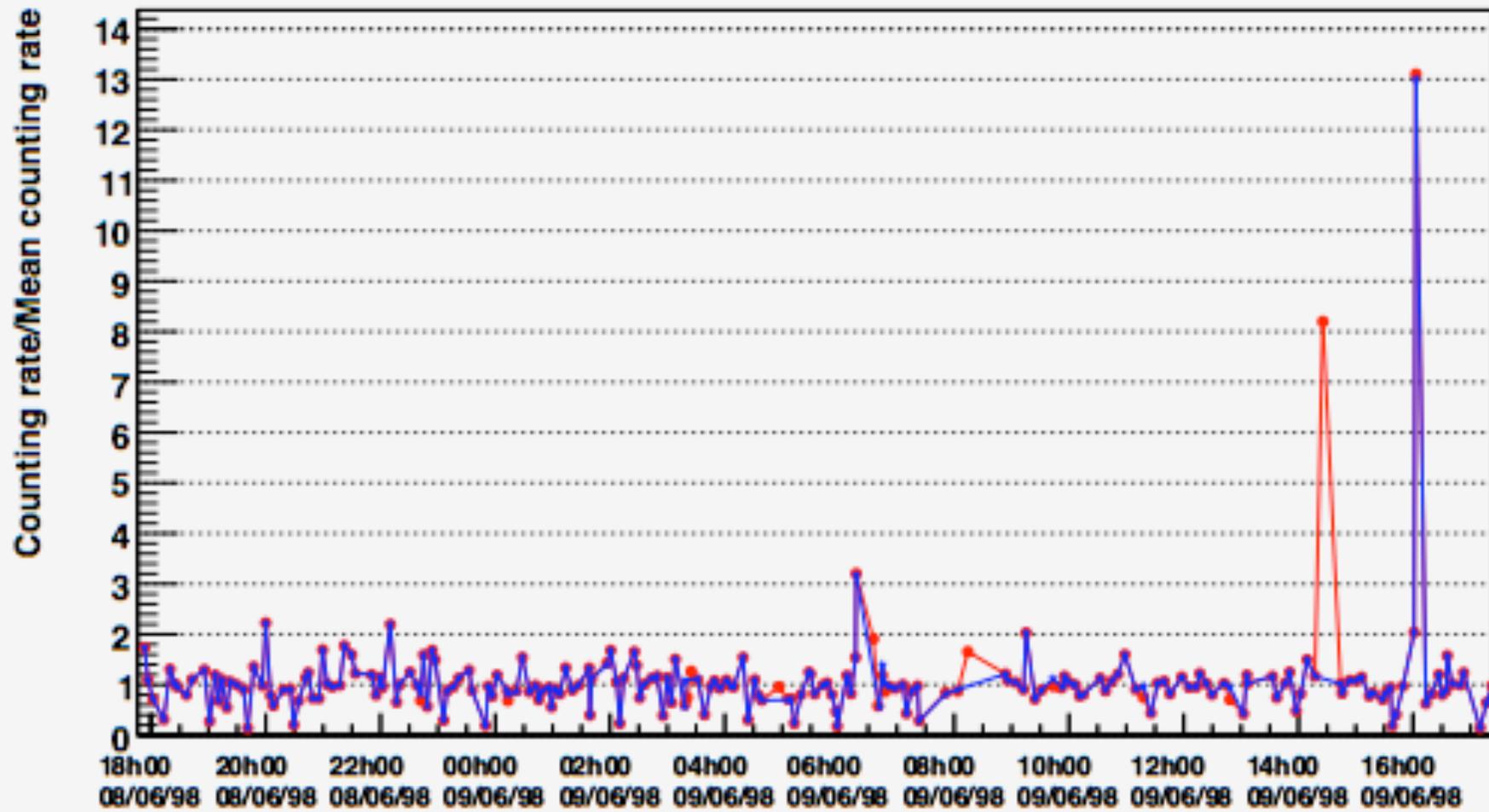
Protons downward: Ek 0.3-> 1. GeV (SAA excluded)



Protons downward: Ek 1.-> 3. GeV (SAA excluded)



Protons downward: Ek 0.1-0.3 GeV



Protons downward: Ek 0.1-> 0.3 GeV

