Jumps in the Data

From NeuroWiki

This discussion is about the large sudden jump in some of the data, that does not seem spatial, and occurs across several related channels at once.

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Below is an example acquired 11 March 2009 with patient present. At 445 seconds into the first record, we saw a large jump:



An enlargement of this region:



We note that in a few "chips" (two grads and one mag per chip), all three channels are affected. In a few other chips, only the grads are affected. In yet a few others, only one grad is affected. Thus, if a spatial event did trigger this jump, it does not appear spatially across the array, but rather selected sensors, albeit in the same region.

The sensors don't appear to need resetting, they just return to baseline.

Here are the spatio-temporal plots of the amplifiers (four chips per amp) with jumps.

MEG 1911	
ME0 1917	
WEG 1913	
MEG 1921	
UFG 1922	
MER 1023	
MED 1931	
MEC 1933	
NET 1033	
WEG 1941	
NED 1943	
NEG 1942	
WED THE	
MEG 2011	
4E9 2012	
MLG 2013	
MEG 2021	
MEQ 2022	
MEG 2023	
MEG 2031	
01G 2037	
WEG 2033	
ME0 2041	
MEG 2042	
VE9 2043	

Large jump in the right parietal region, scale is 2000 ft/cm grads x100 mags, no SSP

MEG 2111	
MED 2112	
MEG 2113	
MEG 2121	
WEG 2122	
MED 2123	
MED 2131	
WFC 9133	
NEX OF \$3	
WEB 8100	
MEG 2142	
MEG 2143	
MEG 2211	
WEG 2217	
WEG 2213	
MEG 2221	
MEG 2222	
MEG 2223	
WEG 2231	
WEG 2032	
MCT SYLL	
WEB STAL	
MLW 4474	
WEG 2243	

Large jump in the right parietal region, scale is 2000 ft/cm grads x100 mags, no SSP



511	
212	
513	
621	
522	
525	
531	
5.17	
533	
541	
542	
543	
611	
612	
613	
671	
022	
611	
11	
12	
N23	
147	

One question posed by other experts is what would happen if we did not have the high pass on, would we stay at the new jump level?

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