

Hudspeth Maps There are 3 Pre & 3 Post maps. *(All maps are with eyes closed.)*

Text and layout based on content and photos excerpted from emails from Dr. Nancy White, PhD to Dr. Sandra Rose Michael, DNM and Dr. Greg Gerber, MD. March 2006. This was report was prepared by Natasha Taylor, June 2008.

PRE 1 is the NeuroRep Data base comparison. They are in standard deviations from the norm (a population within a few months of the patients age).

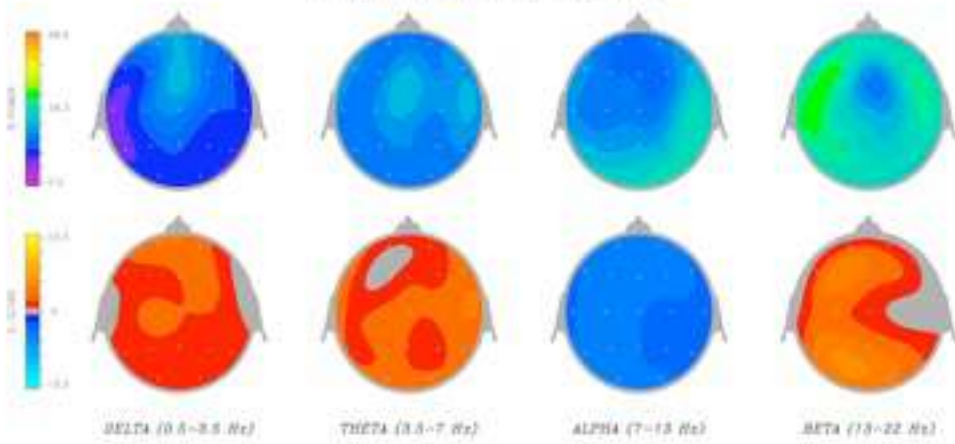
NAME: JEFFREY JH010111 AGE: W:50 M:42 H:160 W:160 DATA: 07/2004 FILE: 01100000C DATE: 12/13/05 PAGE: 1/14

RELATIVE POWER

A. Z-SCORE RELATIVE POWER

	F2	F3	F4	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22
DELTA	1.34	0.07	0.08	-0.42	0.08	0.03	0.07	0.00	0.41	0.09	0.00	0.73	0.31	0.50	0.07	0.07	0.07	0.73	0.70
THETA	0.37	0.37	-0.33	1.08	0.84	0.78	0.70	1.18	1.04	0.80	1.01	1.11	0.88	0.91	0.89	0.89	0.80	1.02	0.83
ALPHA	-0.82	-0.48	-1.28	-0.38	-0.74	-1.00	-1.00	-0.82	-0.58	-1.07	-1.18	-1.38	-1.11	-1.00	-1.12	-1.17	-1.17	-1.41	-1.26
BETA	0.00	0.07	0.74	0.28	1.00	1.27	0.89	0.00	-0.84	0.04	0.74	0.00	1.12	0.80	1.01	1.07	1.23	1.04	0.20

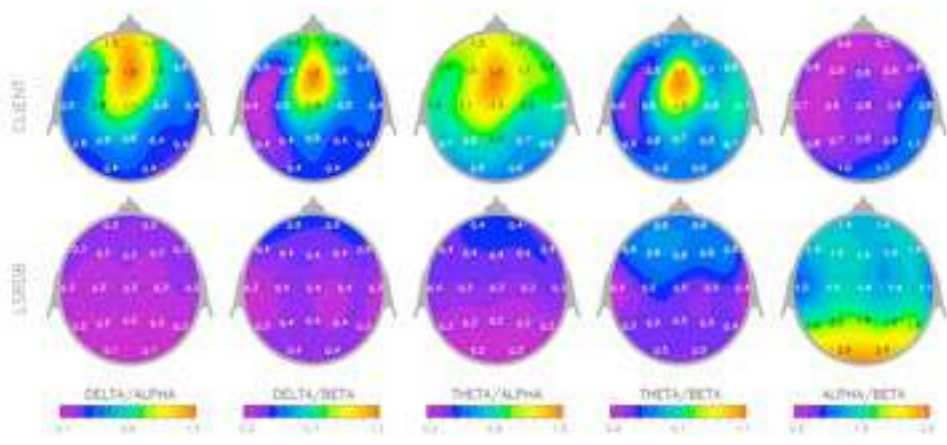
B. RELATIVE POWER AND Z-SCORE TOPOGRAPHS



← The top row is the numerics - ie. Delta, F1 is 1.34 standard deviations too much delta

← The next row of heads shows the electrical energy and where it is located and is not compared to anyone else.

C. FREQUENCY RATIOS



The row of importance is the one with the red Delta and Theta heads. It shows an excess of Delta (sleep wave) and Theta (creative but out to lunch and damage wave). There is a shortage of alpha (all blue), as was shown in the LORETA mapping (See Neuroguide (relative power) and LORETA document). There is some excess beta.

Post 1 after one hour in the EESystem shows a surprising amount of normalizing, The Delta (red) has diminished and become almost entirely normal and the Theta has also diminished and much of the head is in the normal range. The Alpha (all blue) has increased and moved more toward normal as seen in the numerics. Beta has decreased in most areas except frontal.

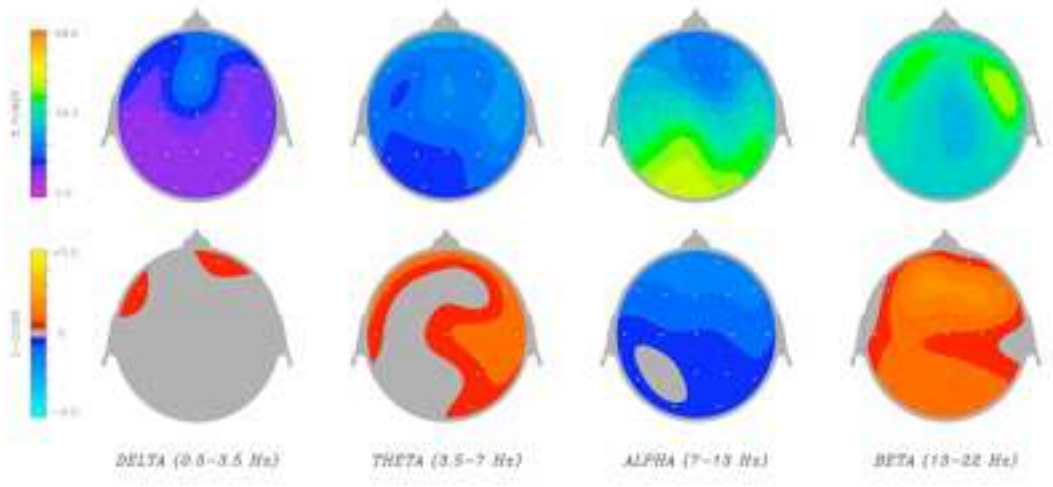
NAME STEVEN LINDS AGE 32 W 60 43 10 HW DATA 45 Sec FILE 02PW03-1 DATE 02.11.03 PNAW 054

RELATIVE POWER:

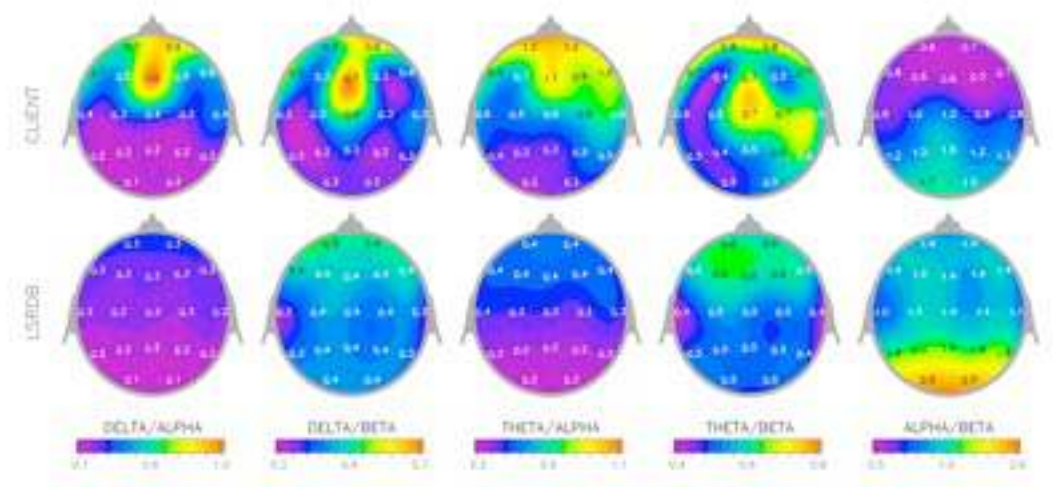
K. Z-SCORE RELATIVE POWER

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DELTA	-0.28	0.09	0.52	-0.14	0.25	-0.12	0.04	-0.34	0.13	-0.07	-0.17	-0.74	-0.38	-0.28	-0.23	-0.20	-0.21	-0.17	-0.28	
THETA	1.21	1.18	-0.07	-1.17	0.02	0.24	0.46	-0.57	-0.87	0.31	-0.44	1.07	0.28	0.44	-0.21	-0.42	-0.44	0.28	0.52	
ALPHA	-0.47	-1.07	-1.23	-1.27	-1.24	-1.21	-1.38	-0.81	-0.77	-0.59	-0.72	-0.87	-0.82	-0.70	-0.41	-0.52	-0.48	-0.30	-0.47	
BETA	0.88	0.21	0.40	0.03	1.84	1.02	1.87	-0.38	0.05	0.82	0.74	0.83	0.80	0.82	1.23	1.13	1.08	1.08	1.13	

B. RELATIVE POWER AND Z-SCORE TOPOGRAPHS

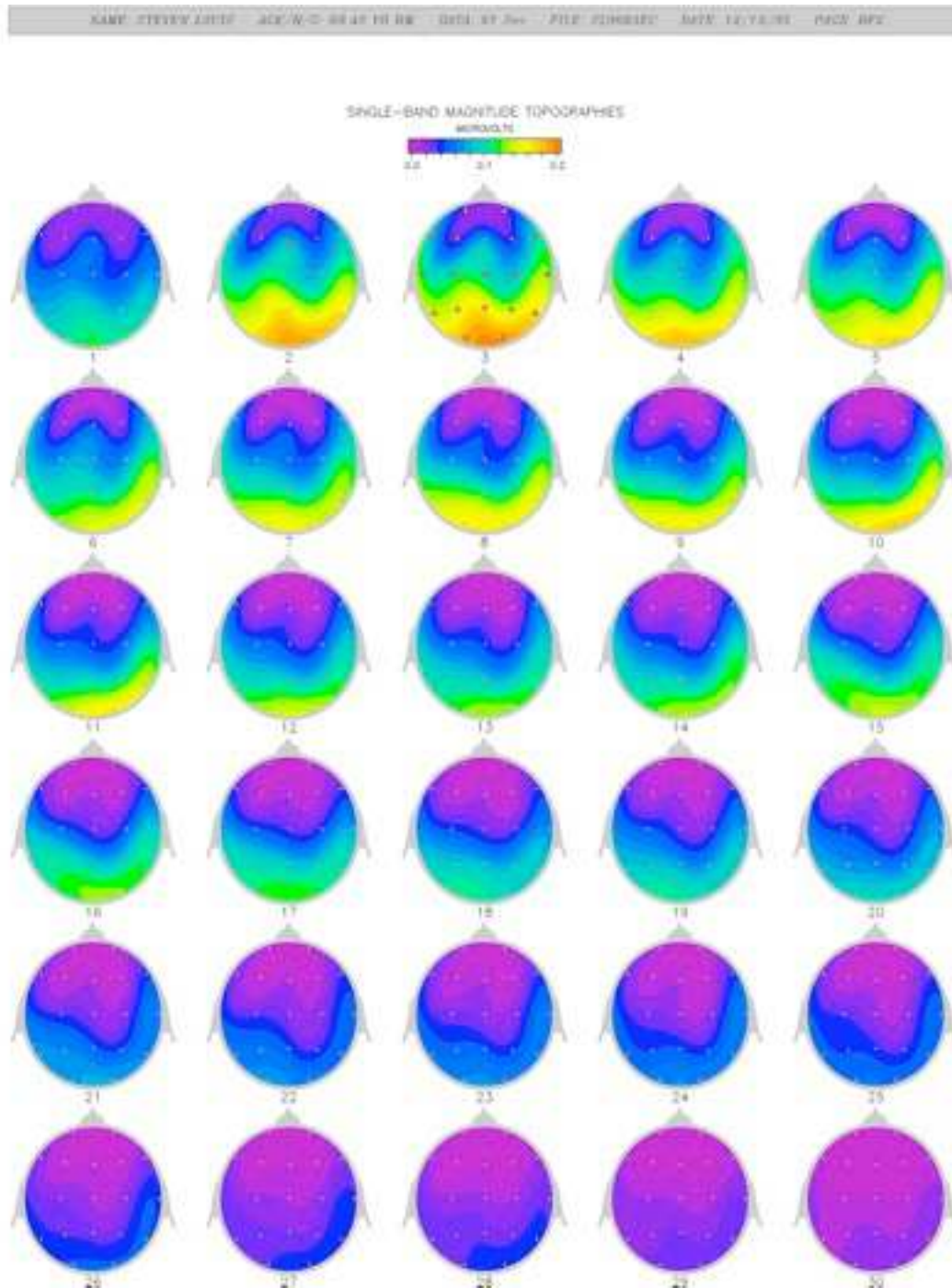


C. FREQUENCY RATIOS



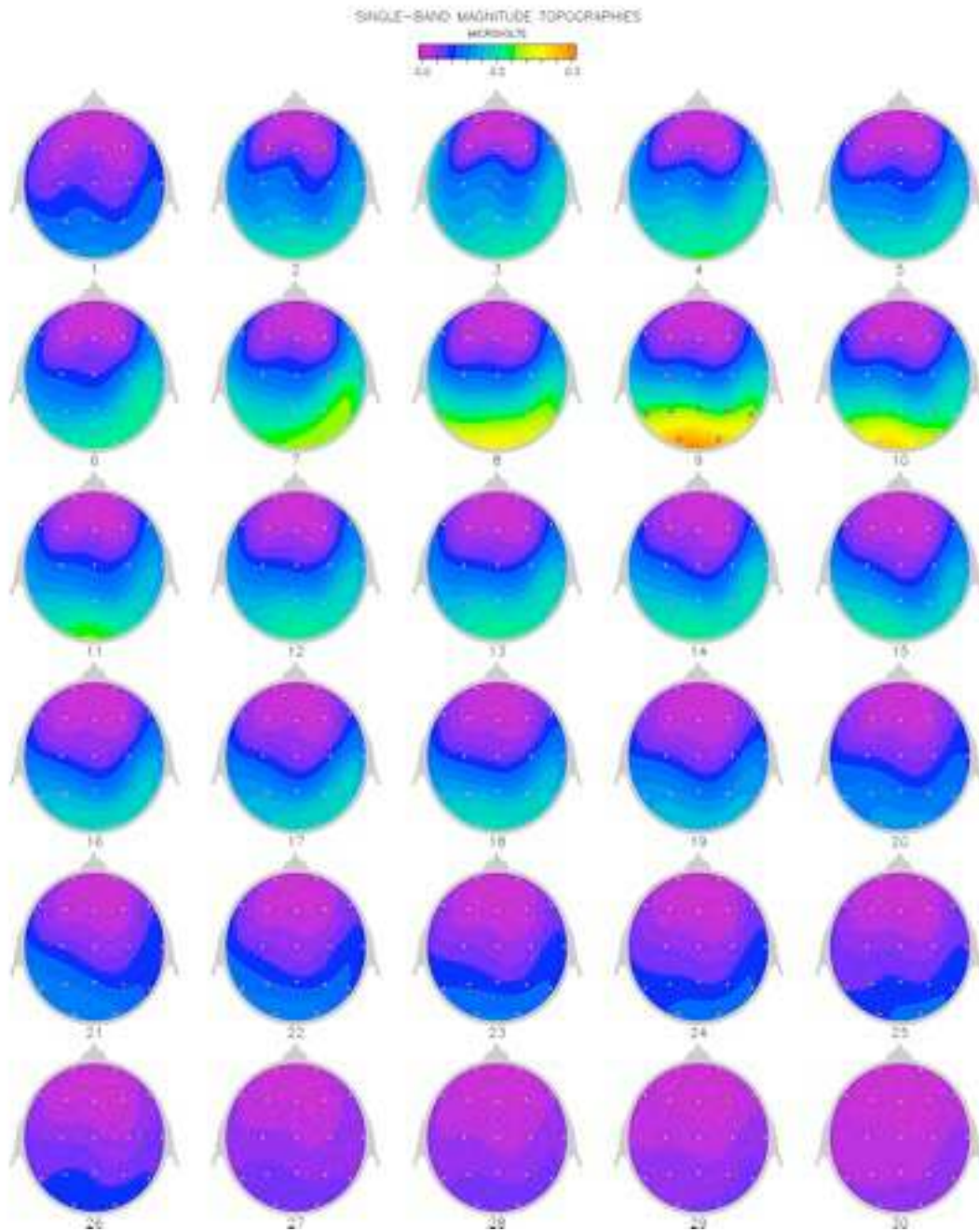
(The bottom two rows is a data base comparison to slow wave ratio to slower wave. The next to the last row is the client and the bottom row is the data base info.)

Pre 2 is a single hertz bins Magnitude map. The energy of the brain is predominantly located at 3 HZ and there is a lot of posterior slow wave.

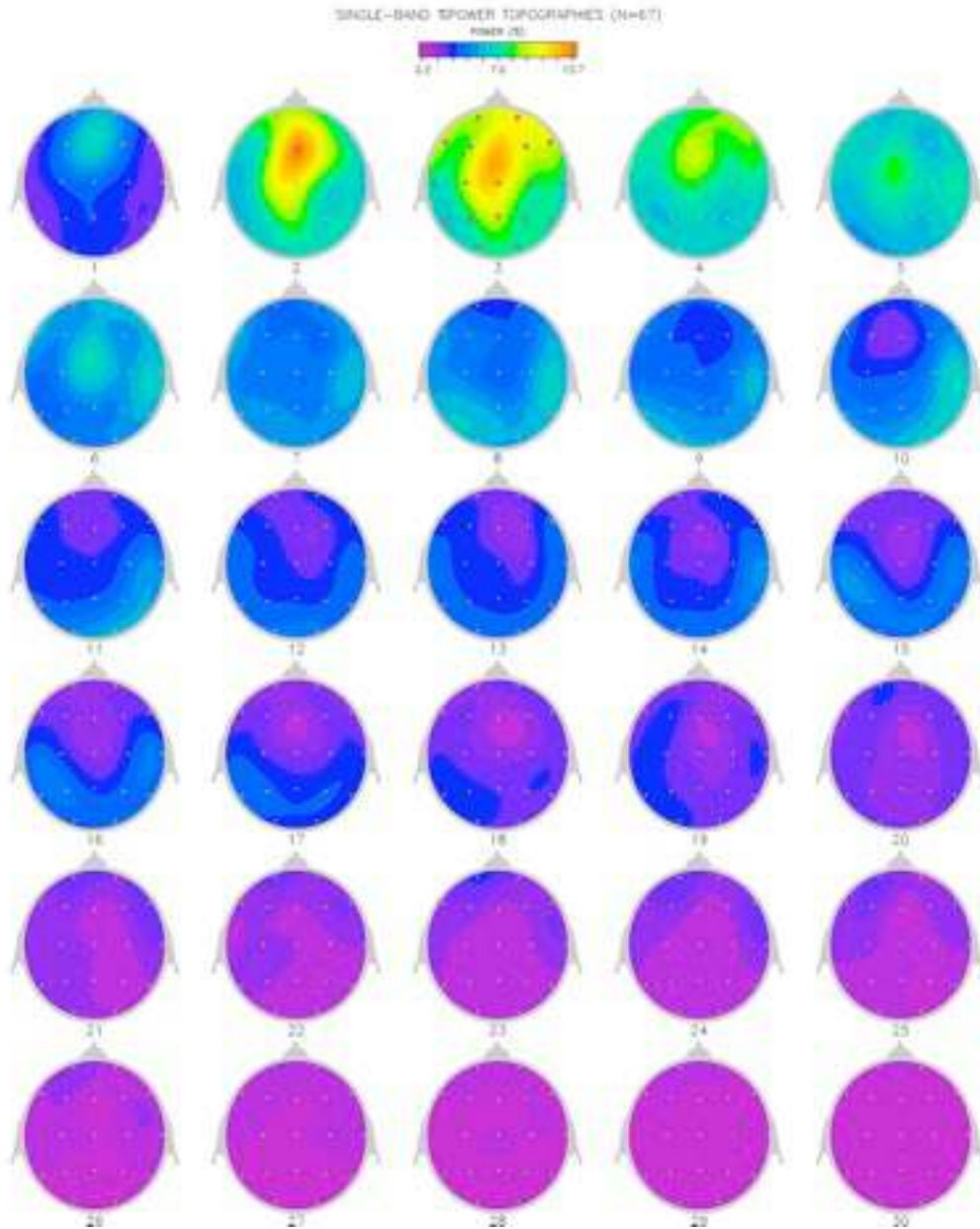


Post 2 has considerably normalized. The energy at 3 HZ has greatly diminished as has all the slow wave and we now see 9 HZ Alpha as is more normal for someone sitting with their eyes closed. The posterior slowing has diminished in all the lower frequencies.

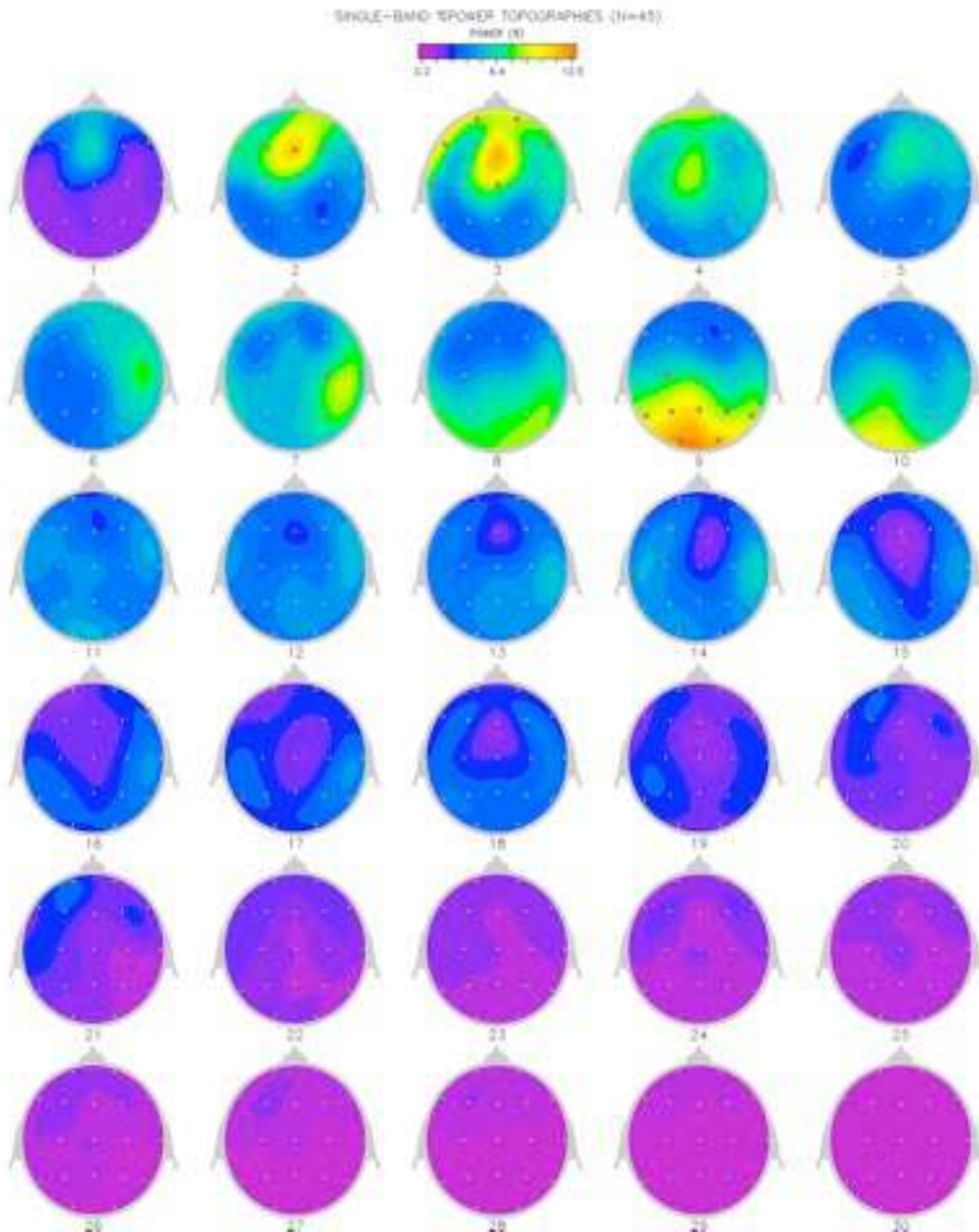
NAME: PYPDEV.L0101 AGE: M: 31 DOB: 01/10/88 SEX: M P12F: 250624-1 DATE: 12/13/14 PAGE: 8/12



Pre 3 is percent power and again shows a predominance of 3 Hz with a predominant slowing at PZ (frontal central). (Note: It is over the anterior cingulate gyrus and most likely denotes some obsessive behaviors.)



Post 3 like the magnitude maps has diminished the 3 Hz energy and shows more normal posterior Alpha at 9 Hz. The slowing at PZ and some CZ (*top of the head over the Thalamus and Cingulate gyrus*) is still present. **It would be interesting to see if that would diminish with more time in the EESystem.**



All in all, it is an amazing normalizing for only an hour. Will it hold? Probably not but, if you spent more time in the EESystem over a period of months, I suspect there would be a permanent shift in brain patterns toward the normal

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