Characterization of Impedance and Current Flow in the Human Body as a Function of Connectedness to Earth Ground

Stephen Elliott – President & Life Scientist, COHERENCE

Original Research Interest

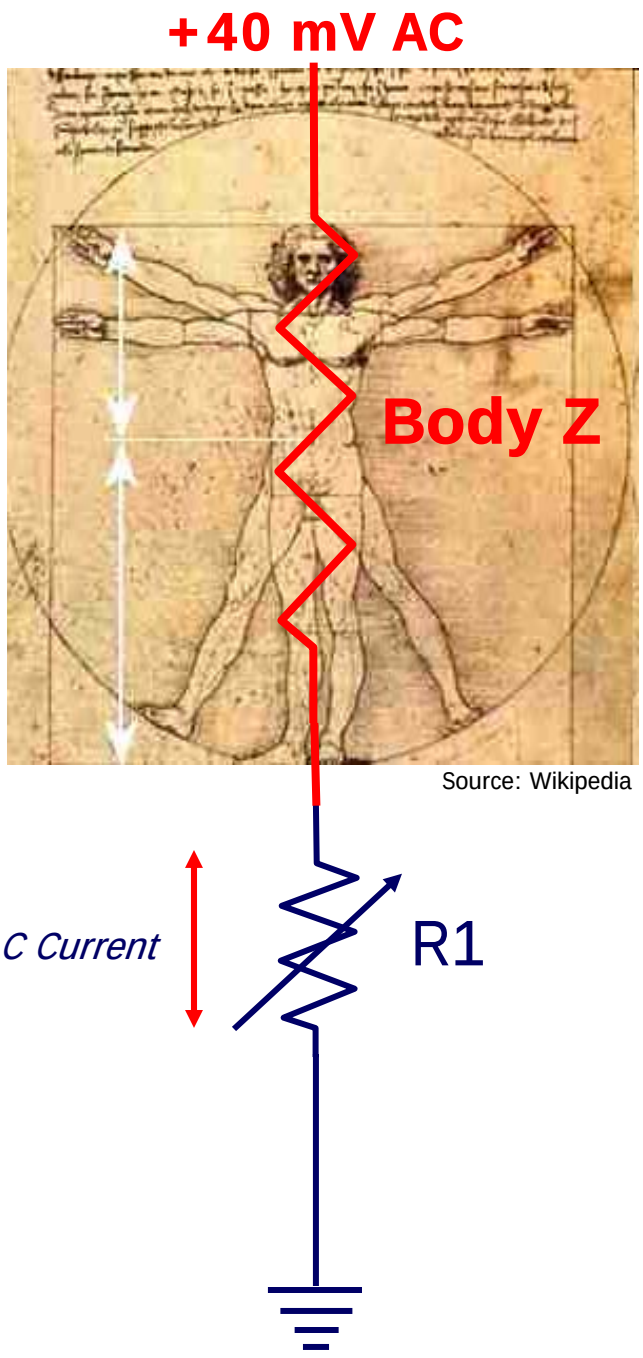
- Determine if humans and Earth (ground) are electrically “involved”.

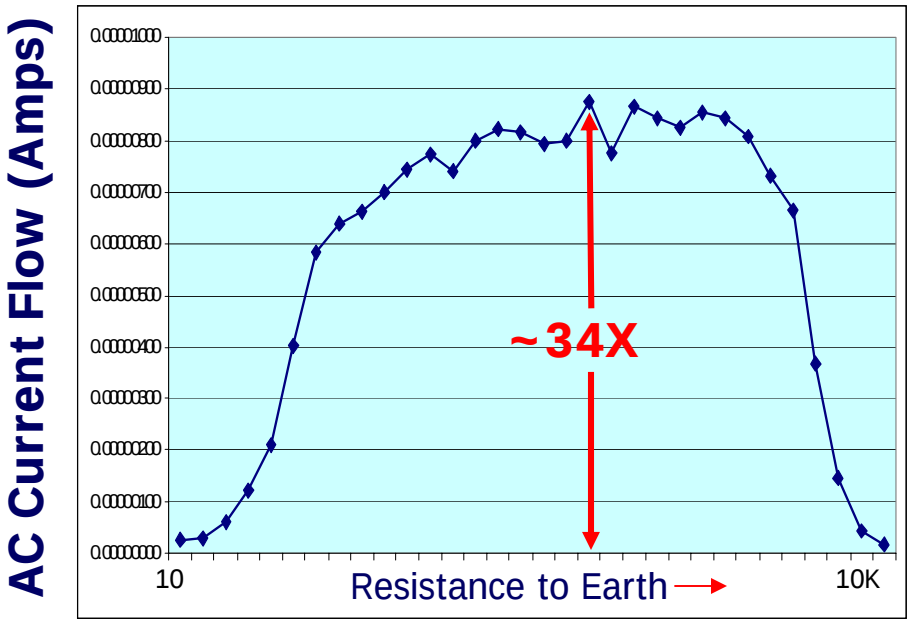
  (Does the human body “desire” connectedness with Earth?)

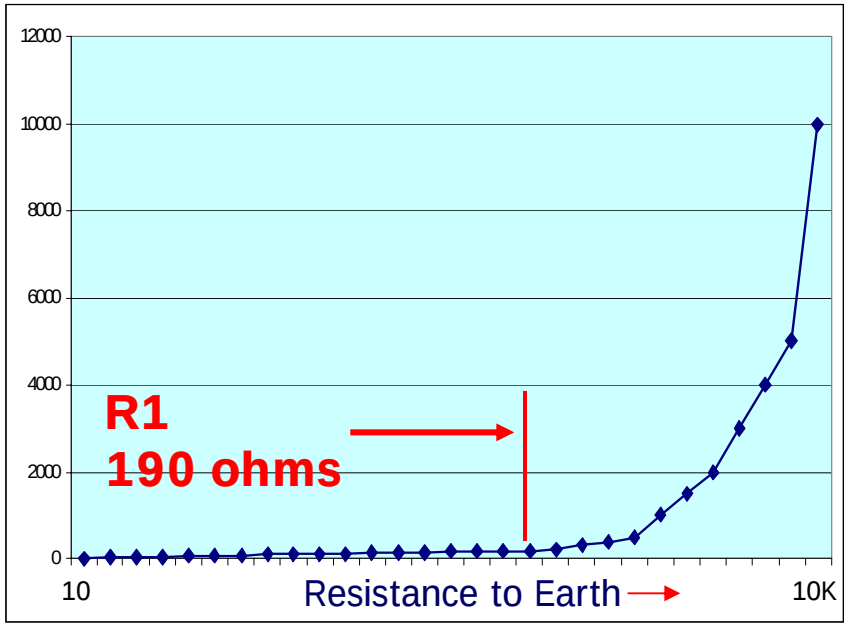
- If so, to what benefit?

- Characterize the involvement…

Summary

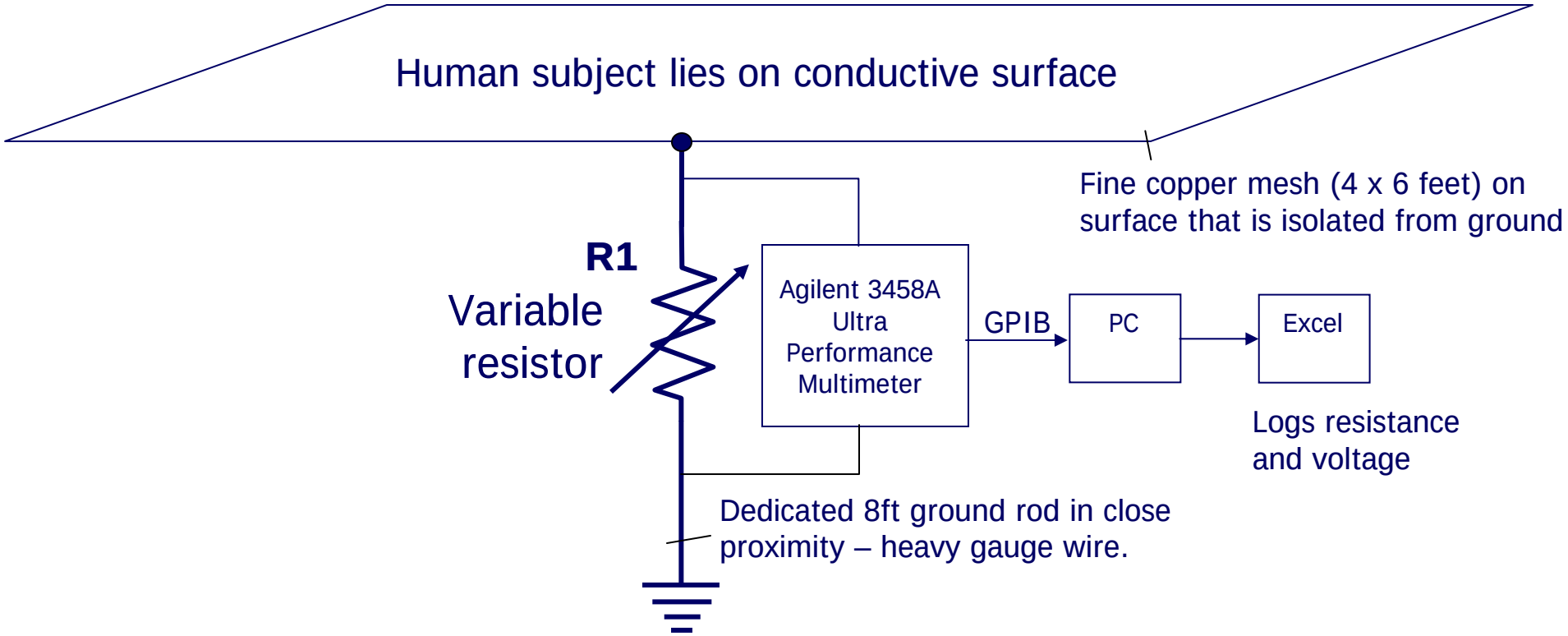






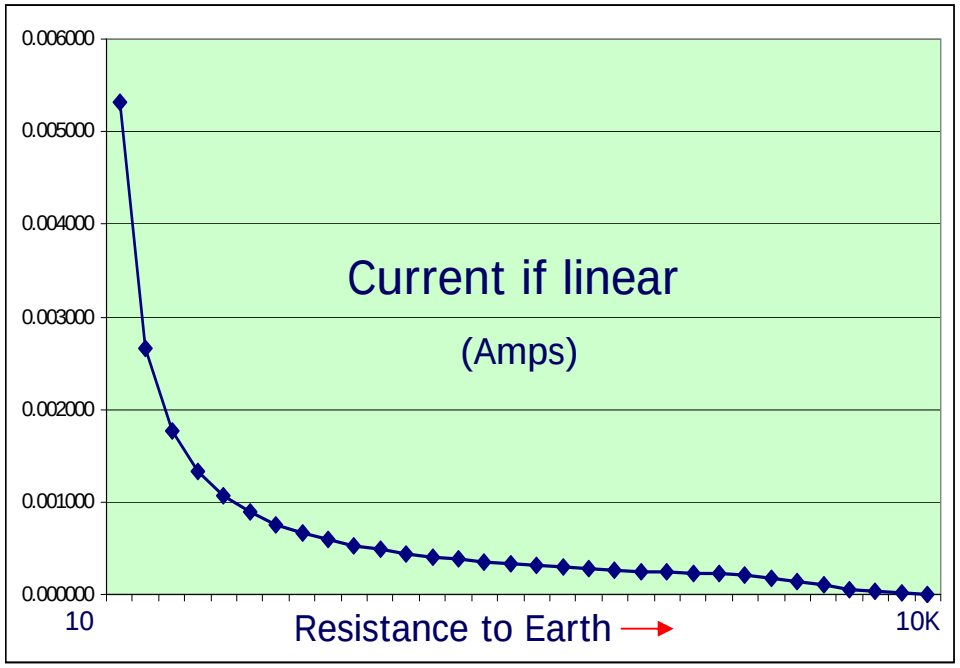
Body Impedance & Current Flow Change Dramatically With Connectedness To Earth Ground.

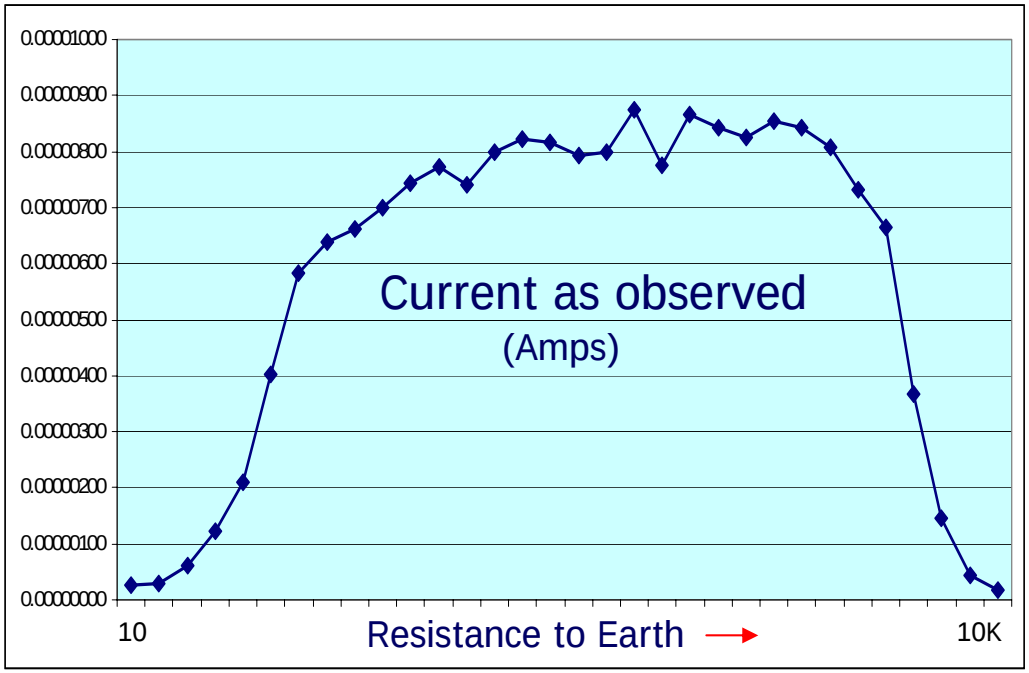
Method

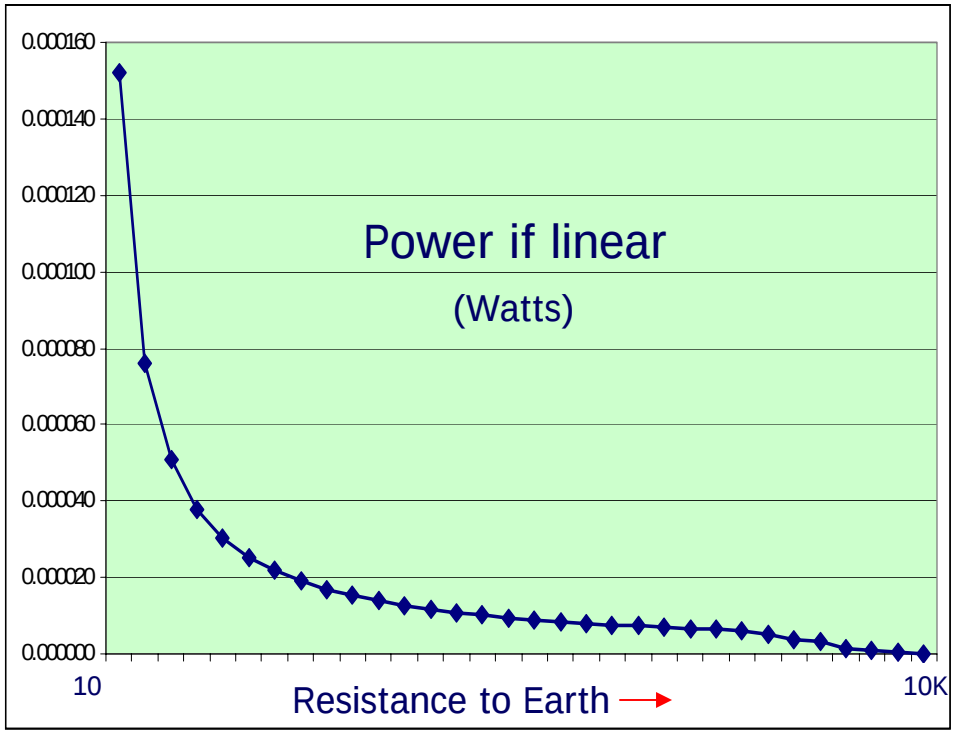


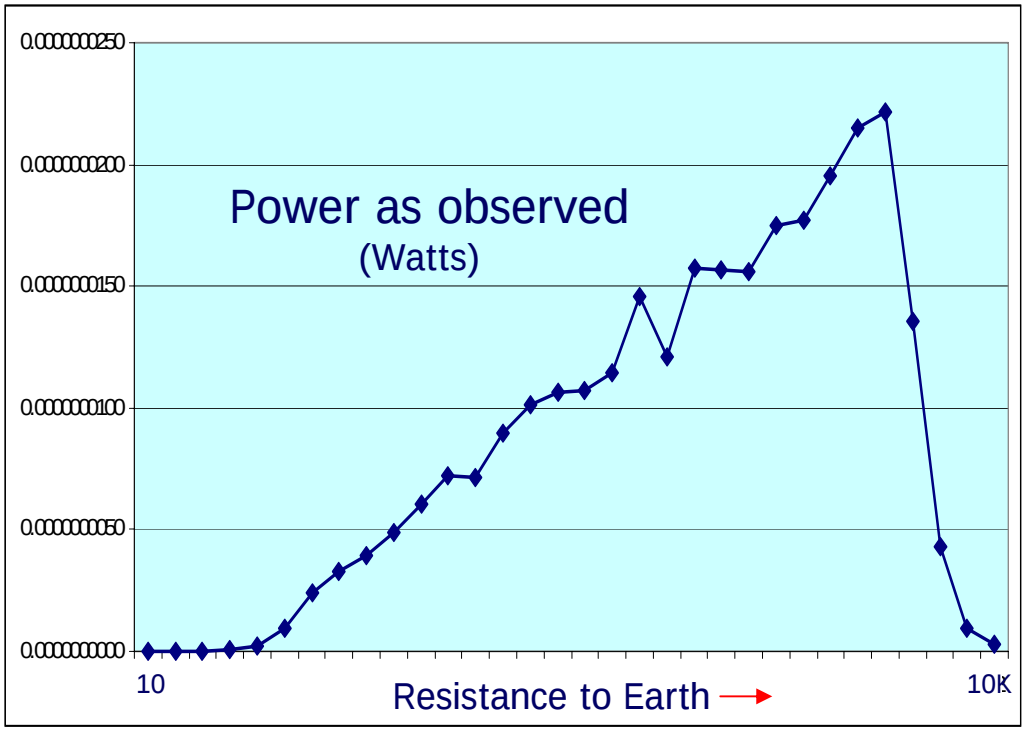
1. Resistance value is set.
2. “Open” voltage is recorded.
3. Participant lies on conductive surface.
4. Voltage across resistance is measured.
5. Open voltage is subtracted from participant value to eliminate environmental induction.
5. Resistance value is changed and the process is repeated
6. From these measurements the following are derived
   a. Total current
   b. Total impedance, body impedance
   c. Power

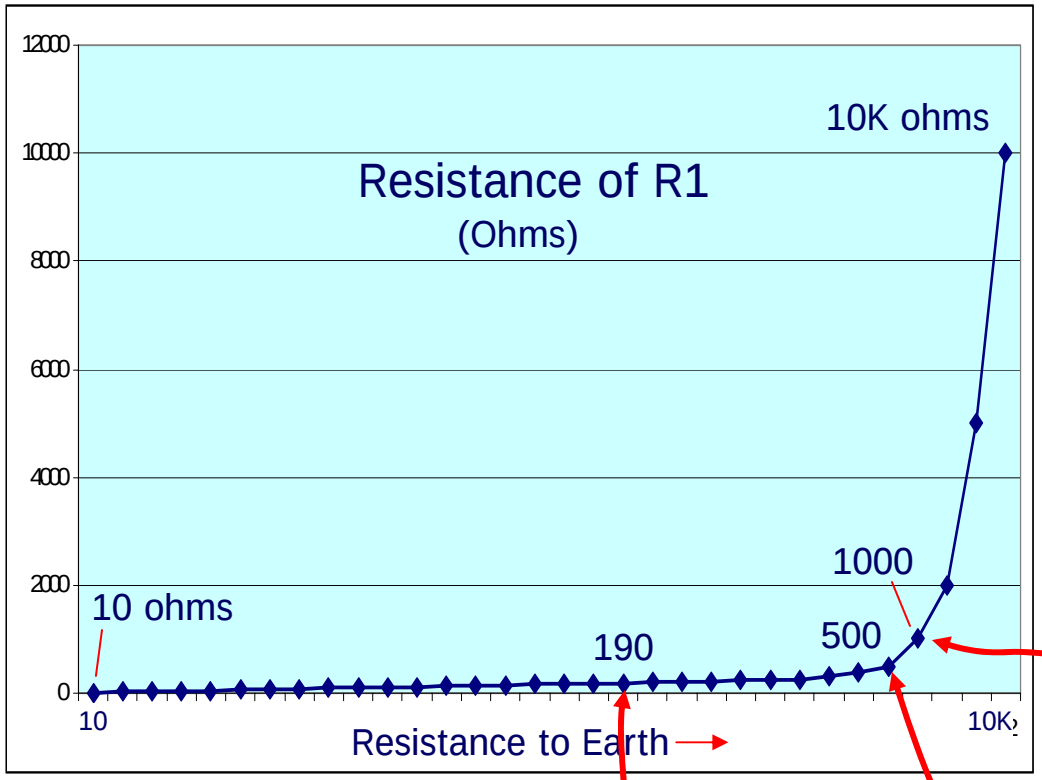
Current & Power Curves

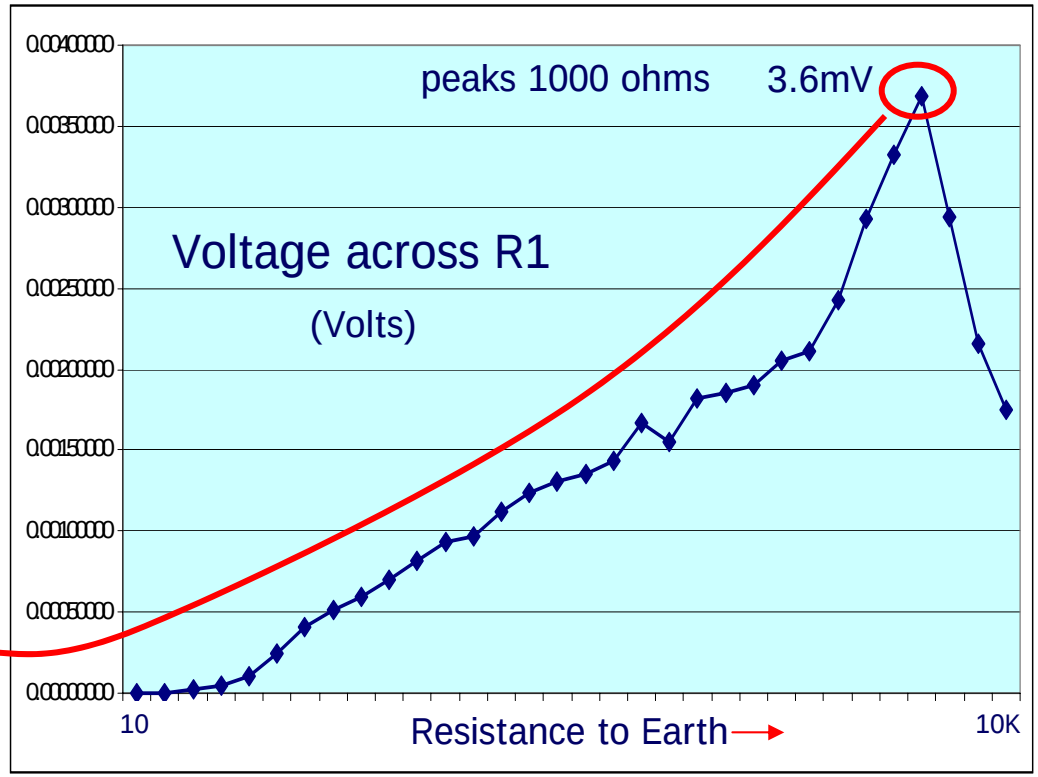


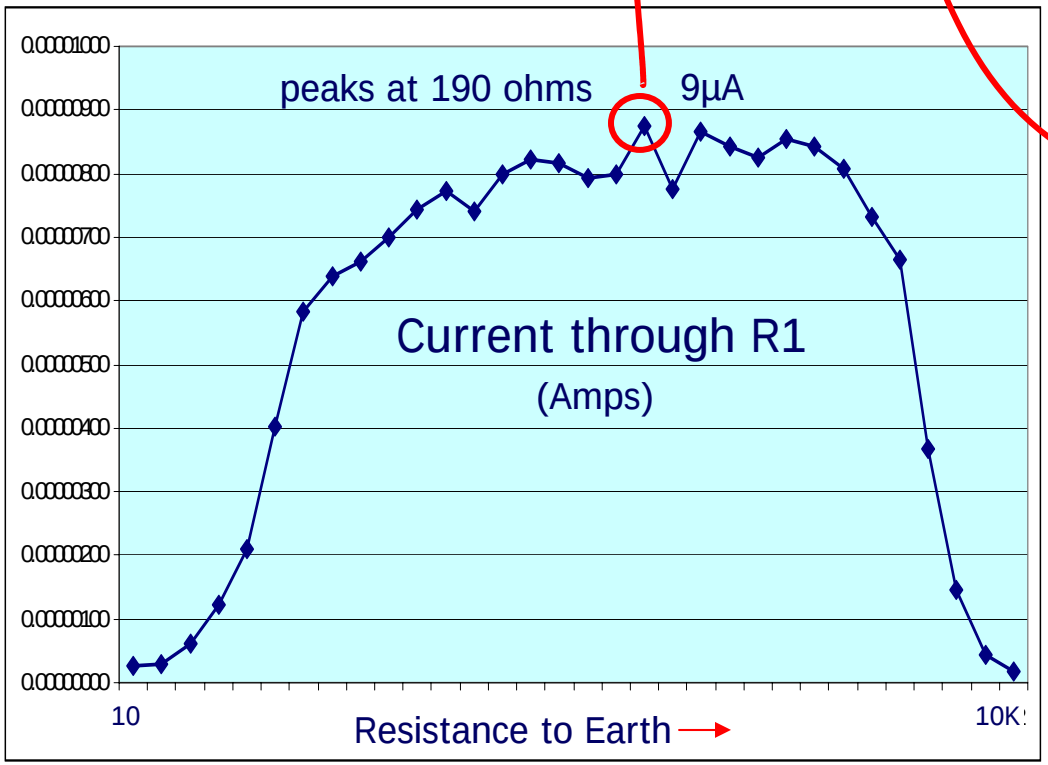


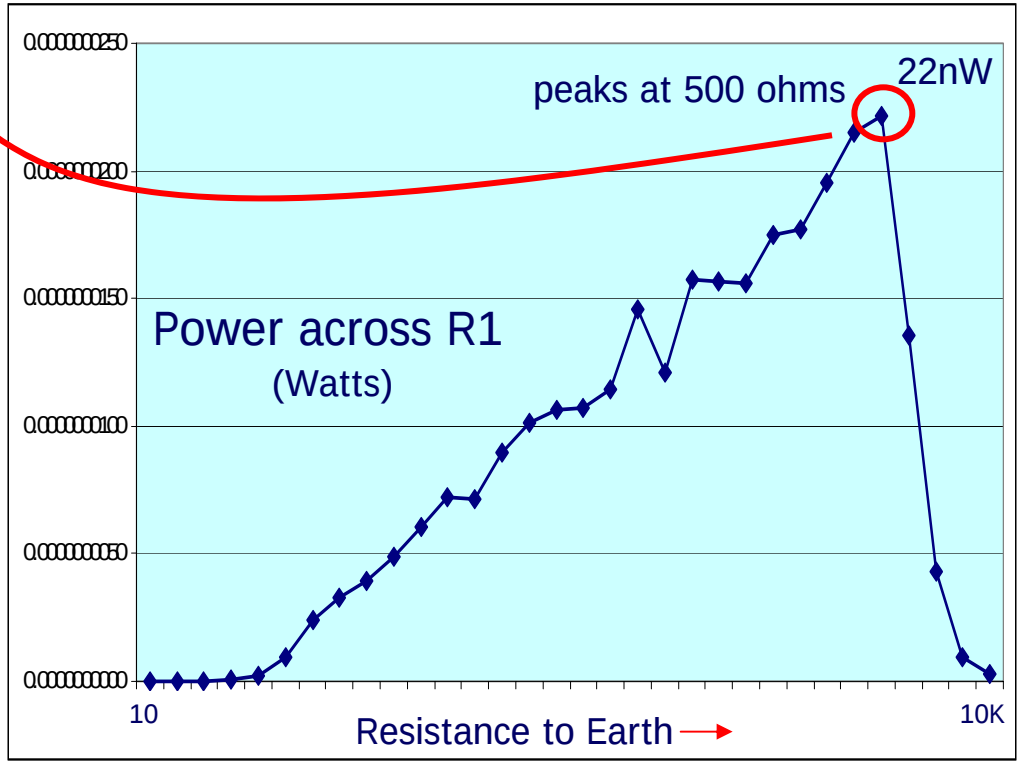




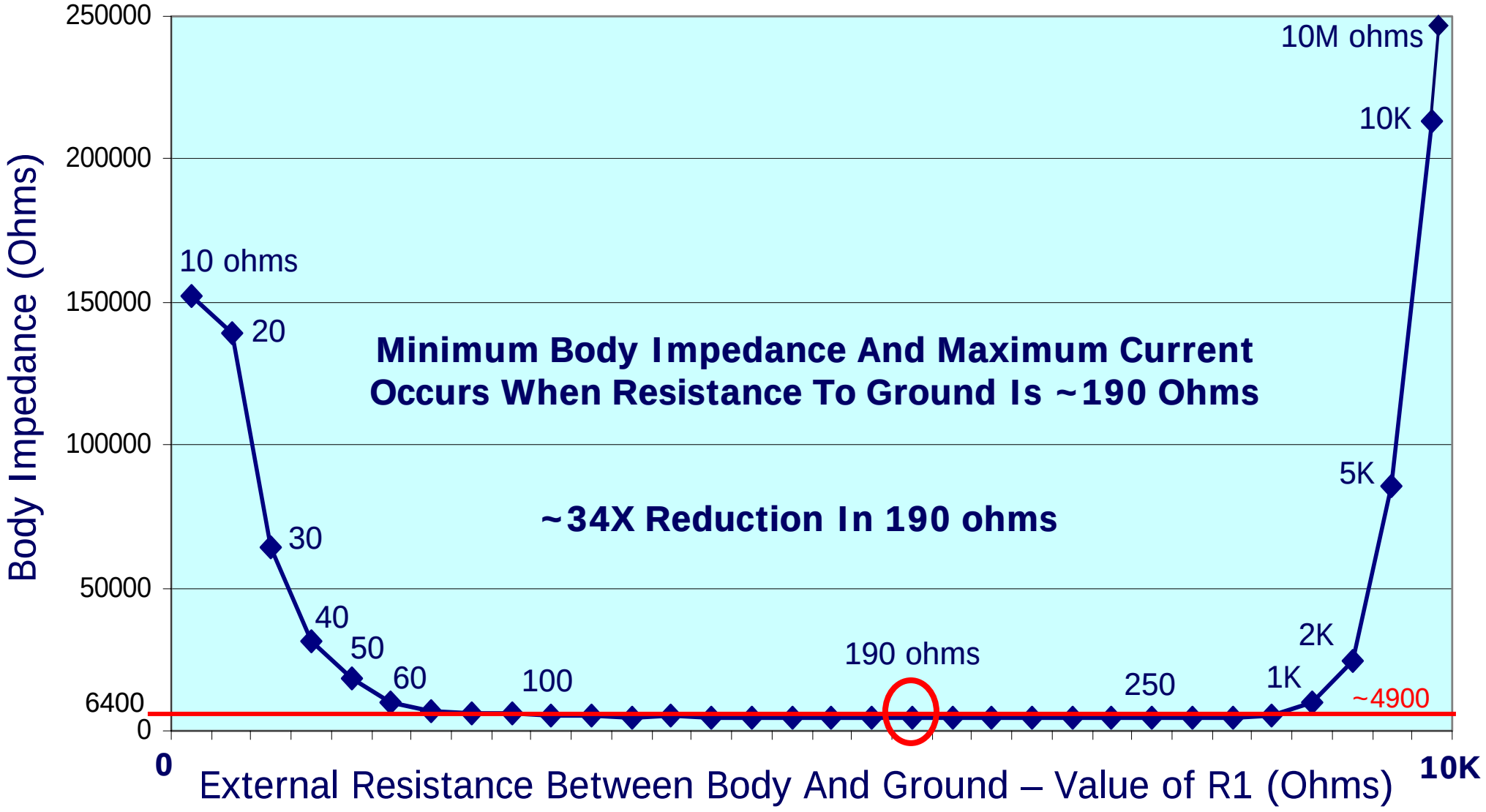

Resistance of R1
(Ohms)
10K ohms
1000
500
190
10 ohms
10
10K
Resistance to Earth


peaks 1000 ohms
3.6mV
Voltage across R1
(Volts)
10
10K
Resistance to Earth


peaks at 190 ohms
9µA
Current through R1
(Amps)
10
10K
Resistance to Earth


peaks at 500 ohms
22nW
Power across R1
(Watts)
10
10K
Resistance to Earth

Body Impedance As A Function of Resistance To Ground

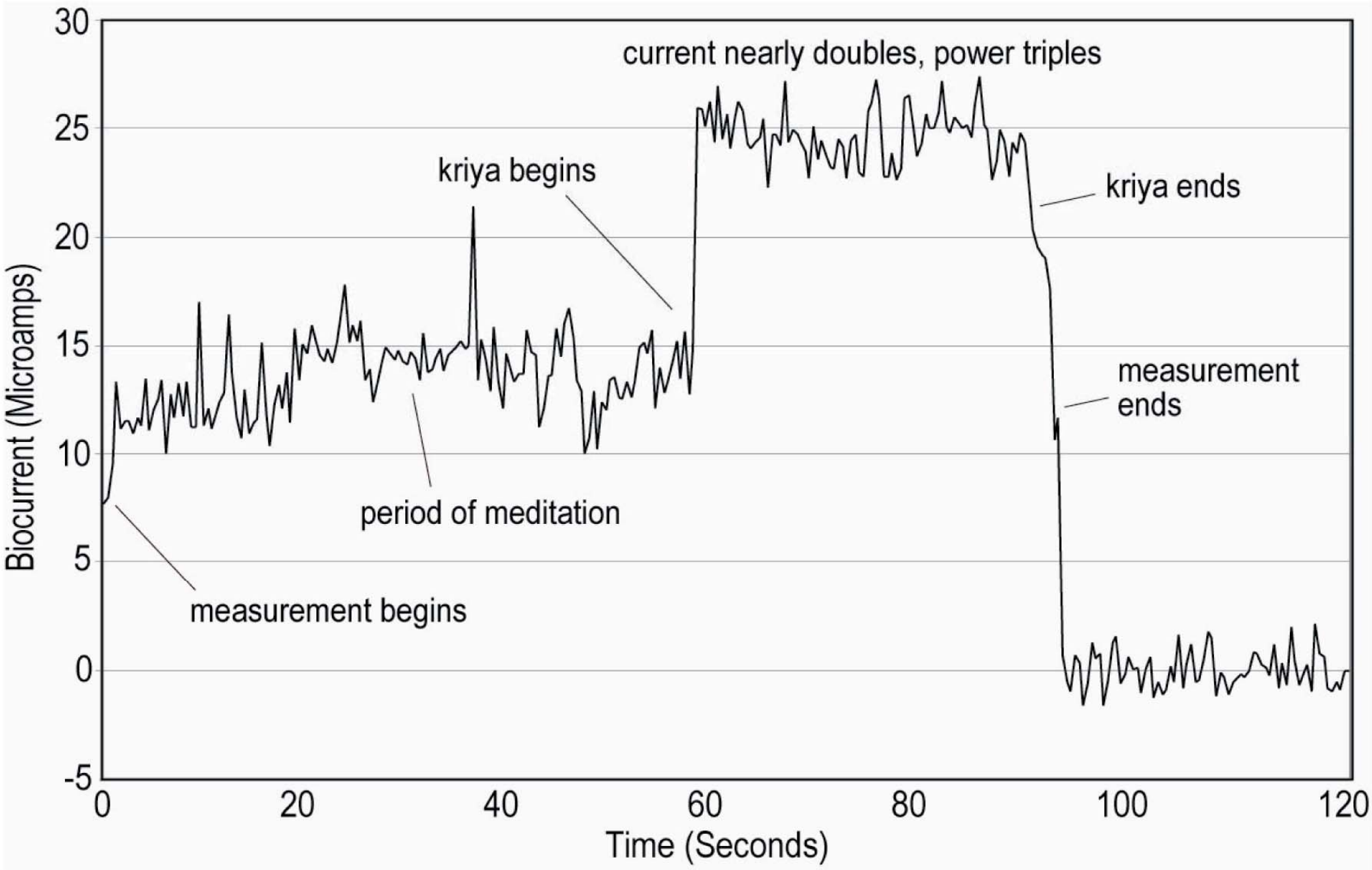


The Body Has A Relatively Flat Response To Resistance Values Between 60 and 1000 Ohms

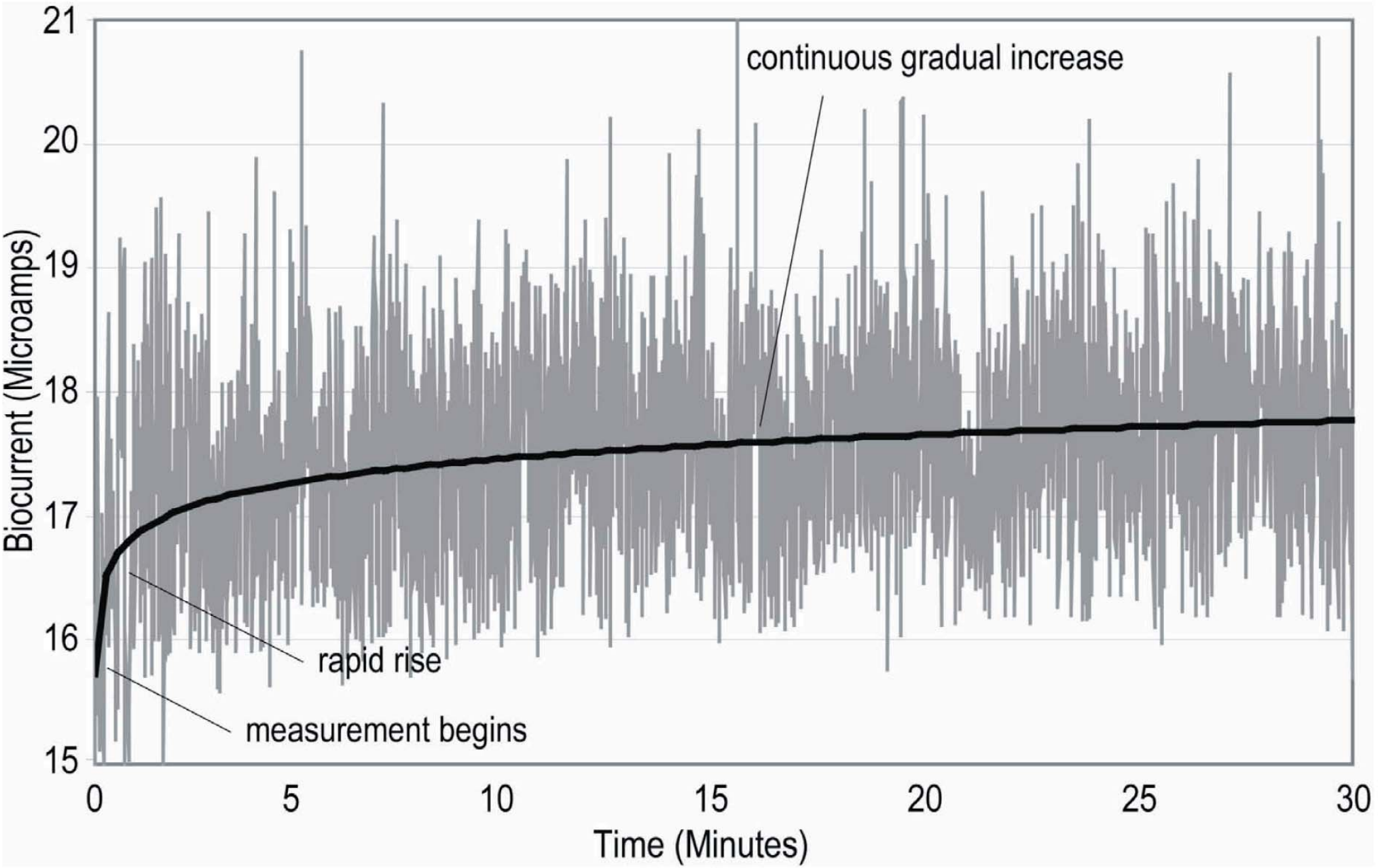
Status

- Body impedance/current flow (or energy production) can be modulated by changing electrical connectedness to Earth.
- **You can feel it!**
- The range where current is maximized is between 60 and 1000 ohms and peaks at ~190 ohms.
- Why this range? Vertebrate biology?
- Lowering body impedance allows us to see electrical activity that is otherwise not visible.
- Is having less impedance and more current flow in the body desirable?
- I have some thoughts on this…..
- Does modulating impedance modify other biometrics? (work in progress)
- What does the spectral analysis look like?

Bio-current of Spontaneous Kriya



Bio-current of Breathing



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One Last Word…

If you are compelled to try this, drive a dedicated ground rod and don’t use the “AC” ground.

Second, for safety, when in contact with ground, avoid touching other AC applicances.

The Data

	Value of R1 Ohms	Surface Volts AC	Body On Surface Volts AC	Delta Volts AC	Current Amps Amps	Power (R1) Watts	Total Impedance Ohms	Body Impedance Ohms
1	10	0.000012	0.000015	0.00000256	0.00000026	0.0000000000	152188	152178
2	20	0.000015	0.000020	0.00000560	0.00000028	0.0000000000	139250	139230
3	30	0.000016	0.000035	0.00001823	0.00000061	0.0000000000	64157	64127
4	40	0.000017	0.000066	0.00004929	0.00000123	0.0000000001	31641	31601
5	50	0.000019	0.000125	0.00010510	0.00000210	0.0000000002	18549	18499
6	60	0.000024	0.000265	0.00024135	0.00000402	0.0000000010	9693	9633
7	70	0.000029	0.000437	0.00040771	0.00000582	0.0000000024	6694	6624
8	80	0.000037	0.000547	0.00051061	0.00000638	0.0000000033	6109	6029
9	90	0.000045	0.000641	0.00059629	0.00000663	0.0000000040	5885	5795
10	100	0.000011	0.000711	0.00069975	0.00000700	0.0000000049	5572	5472
11	110	0.000047	0.000864	0.00081632	0.00000742	0.0000000061	5254	5144
12	120	0.000085	0.001013	0.00092824	0.00000774	0.0000000072	5041	4921
13	130	0.000059	0.001022	0.00096373	0.00000741	0.0000000071	5260	5130
14	140	0.000109	0.001229	0.00111966	0.00000800	0.0000000090	4875	4735
15	150	0.000135	0.001368	0.00123259	0.00000822	0.0000000101	4745	4595
16	160	0.000198	0.001505	0.00130665	0.00000817	0.0000000107	4774	4614
17	170	0.000280	0.001629	0.00134875	0.00000793	0.0000000107	4914	4744
18	180	0.000390	0.001826	0.00143644	0.00000798	0.0000000115	4886	4706
19	190	0.000287	0.001950	0.00166320	0.00000875	0.0000000146	4454	4264
20	200	0.000490	0.002043	0.00155336	0.00000777	0.0000000121	5020	4820
21	210	0.000501	0.002319	0.00181830	0.00000866	0.0000000157	4503	4293
22	220	0.000518	0.002373	0.00185577	0.00000844	0.0000000157	4622	4402
23	230	0.000551	0.002446	0.00189506	0.00000824	0.0000000156	4732	4502
24	240	0.000591	0.002641	0.00205017	0.00000854	0.0000000175	4564	4324
25	250	0.000618	0.002724	0.00210586	0.00000842	0.0000000177	4629	4379
26	300	0.000818	0.003241	0.00242298	0.00000808	0.0000000196	4828	4528
27	400	0.001354	0.004285	0.00293082	0.00000733	0.0000000215	5321	4921
28	500	0.001839	0.005166	0.00332699	0.00000665	0.0000000221	5860	5360
29	1000	0.003728	0.007408	0.00368090	0.00000368	0.0000000135	10593	9593
30	2000	0.005721	0.008659	0.00293743	0.00000147	0.0000000043	26548	24548
31	5000	0.007139	0.009295	0.00215602	0.00000043	0.0000000009	90423	85423
32	10000	0.007955	0.009701	0.00174576	0.00000017	0.0000000003	223345	213345
33	10000000	0.014212	0.053203	0.03899076	0.00000000	0.0000000002	10000000	0

Impedance of meter

The End

Thank You!