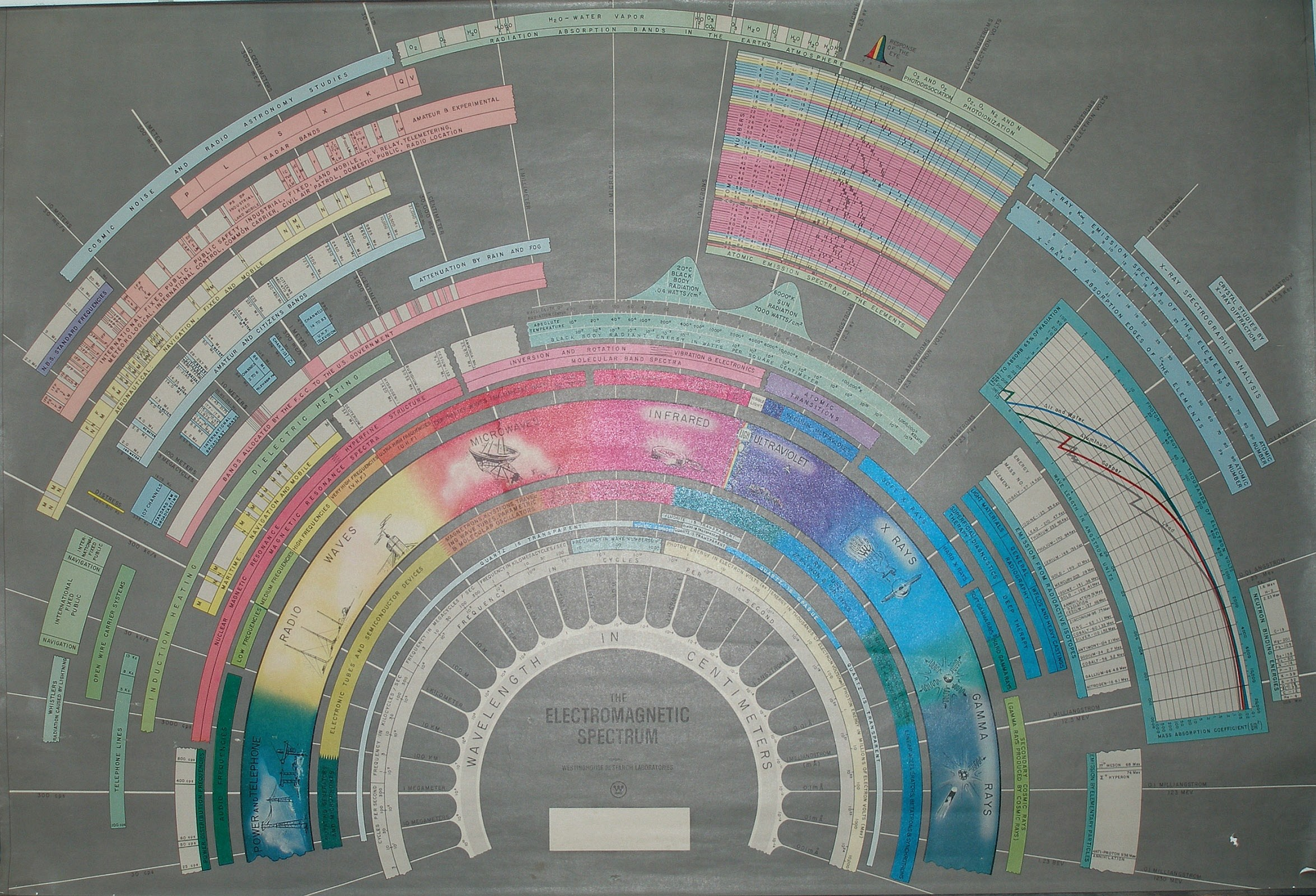
THE ELECTROMAGNETIC SPECTRUM
WESTINGHOUSE RESEARCH LABORATORIES
WAVELENGTH IN CENTIMETERS
FREQUENCY
CYCLES PER SECOND
RADIO WAVES
INFRARED
MICROWAVES
ULTRAVIOLET
X RAYS
GAMMA RAYS
POWER AND TELEPHONE
AUDIO FREQUENCIES
ELECTRONIC TUBES AND SEMICONDUCTOR DEVICES
INDUCTION HEATING
DIELECTRIC HEATING
COSMIC NOISE AND RADIO ASTRONOMY STUDIES
RADAR BANDS
AMATEUR & EXPERIMENTAL
INTERNATIONAL FIXED PUBLIC, PUBLIC SAFETY, INDUSTRIAL, FIXED, LAND MOBILE, T.V. RELAY, TELEMETERING, METEOROLOGICAL, INTERNATIONAL CONTROL, COMMON CARRIER, CIVIL AIR PATROL, DOMESTIC PUBLIC, RADIO LOCATION
AMATEUR AND CITIZENS BANDS
BANDS ALLOCATED BY THE F.C.C. TO THE U.S. GOVERNMENT
ATTENUATION BY RAIN AND FOG
N.B.S. STANDARD FREQUENCIES
OPEN WIRE CARRIER SYSTEMS
TELEPHONE LINES
WHISTLERS
RADIATION CAUSED BY LIGHTNING
INTERNATIONAL FIXED PUBLIC
NAVIGATION
AERONAUTICAL NAVIGATION, FIXED AND MOBILE
MARITIME NAVIGATION AND MOBILE
NUCLEAR MAGNETIC RESONANCE
MAGNETIC RESONANCE SPECTRA
HYPERFINE STRUCTURE
MOLECULAR BAND SPECTRA
INVERSION AND ROTATION
VIBRATION & ELECTRONICS
ATOMIC TRANSITIONS
H2O - WATER VAPOR
RADIATION ABSORPTION BANDS IN THE EARTH'S ATMOSPHERE
O2 AND O2 PHOTODISSOCIATION
O2, O, N2 AND N PHOTOIONIZATION
ATOMIC EMISSION SPECTRA OF THE ELEMENTS
ATOMIC NUMBERS
RESPONSE OF THE EYE
20°C BLACK BODY RADIATION .04 WATTS/cm²
6000°K SUN RADIATION 7000 WATTS/cm²
ABSOLUTE TEMPERATURE
BLACK BODY RADIANT ENERGY IN WATTS PER SQUARE CENTIMETER
X-RAY Kα EMISSION SPECTRA OF THE ELEMENTS
X-RAY K ABSORPTION EDGES OF THE ELEMENTS
X-RAY SPECTROGRAPHIC ANALYSIS
CRYSTAL STUDIES BY X-RAY DIFFRACTION
ATOMIC NUMBER
ATOMIC NUMBER
NEUTRON BINDING ENERGIES
MASS ABSORPTION COEFFICIENT
Air and Water
Aluminum
Copper
Lead
WAVE LENGTH IN ANGSTROM UNITS
EMISSION FROM RADIOACTIVE ISOTOPES
GENERAL RADIOGRAPHY
DEEP THERAPY
SUPERFICIAL THERAPY
DIAGNOSTICS
HARD X RAYS
SOFT X RAYS
LINEAR ACCELERATORS, BETATRONS & SYNCHROTRONS
SECONDARY COSMIC RAYS (GAMMA RAYS PRODUCED BY COSMIC RAYS)
EMISSION BY ELEMENTARY PARTICLES
ANTI-PROTON ANNIHILATION
QUARTZ IS TRANSPARENT
FREQUENCY IN KILOCYCLES/SEC
FREQUENCY IN MEGACYCLES/SEC
FREQUENCY IN WAVE NUMBERS
PHOTON ENERGY IN ELECTRON VOLTS
ENERGY IN THOUSANDS OF ELECTRON VOLTS
PHOTON ENERGY IN MILLIONS OF ELECTRON VOLTS
CYCLES PER SECOND
1 KILOMETER
10 KM.
100 KM
1 MEGAMETER
10 MEGAMETER
1 MILLIANGSTROM
0.1 MILLIANGSTROM
0.01 MILLIANGSTROM
1 ANGSTROM
0.1 ANGSTROM
0.01 ANGSTROM
1 MILLIMETER
10 MICRONS
1 MICRON
10 CENTIMETERS
1 METER
10 METERS
100 METERS
1 MEGACYCLE
10 MEGACYCLES
300 cps
30 cps
300 kc/s
3000 kc/s
30,000 kc/s
300,000 kc/s
3000 mc/s
30,000 mc/s
300,000 mc/s
3000 mc/s
30,000 mc/s
300,000 mc/s
3000 gc/s
30,000 gc/s
300,000 gc/s
3000 tc/s
30,000 tc/s
300,000 tc/s
3000 pc/s
30,000 pc/s
300,000 pc/s
3000 fc/s
30,000 fc/s
300,000 fc/s
3000 Å
30,000 Å
300,000 Å
3000 mμ
30,000 mμ
300,000 mμ
3000 μ
30,000 μ
300,000 μ
3000 mm
30,000 mm
300,000 mm
3000 cm
30,000 cm
300,000 cm
3000 m
30,000 m
300,000 m
3000 km
30,000 km
300,000 km
3000 Mm
30,000 Mm
300,000 Mm
3000 Gm
30,000 Gm
300,000 Gm
3000 Tm
30,000 Tm
300,000 Tm
3000 Pm
30,000 Pm
300,000 Pm
3000 Em
30,000 Em
300,000 Em