Examination and Imaging Techniques: Works on Paper

Summer Teachers Institute in Technical Art History, 2014

LINDSEY TYNE

Examination and Imaging Techniques

Visible Light

Magnification
Raking Light
Transmitted Light

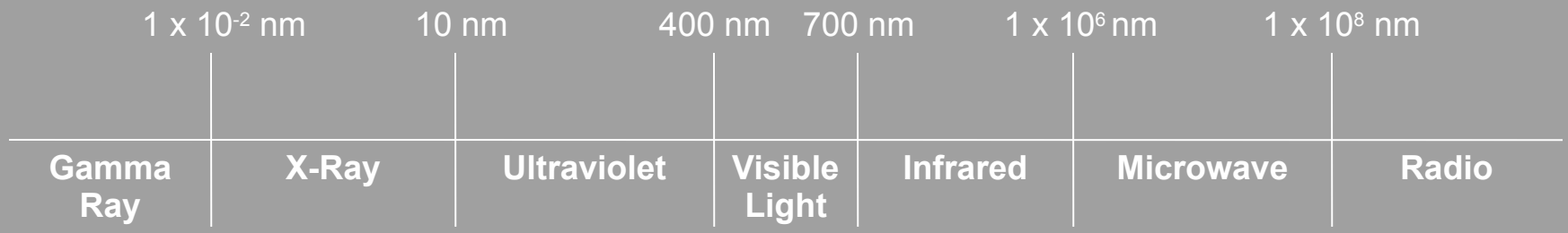
Multispectral

Beta Radiography
Ultraviolet Induced Fluorescence
Infrared Reflectography

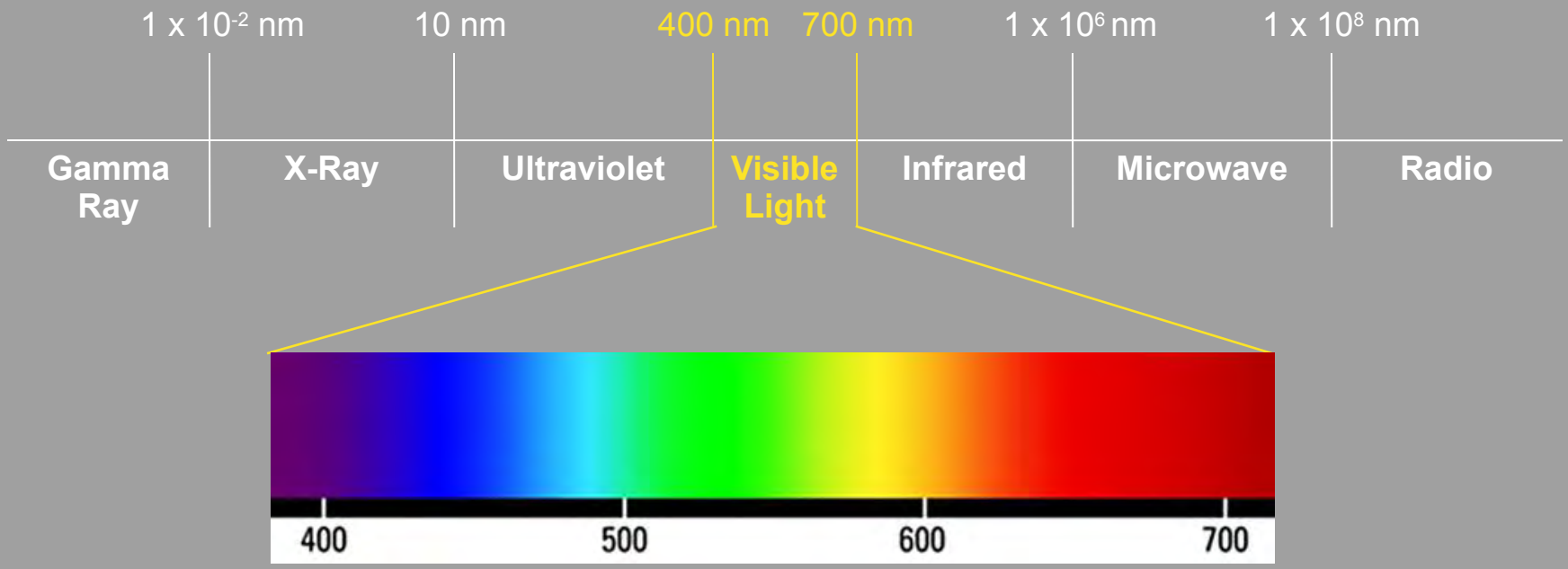
Digital Manipulation

False Color Infrared Reflectography (FCIR)
Reflectance Transformation Imaging (RTI)

Electromagnetic Spectrum

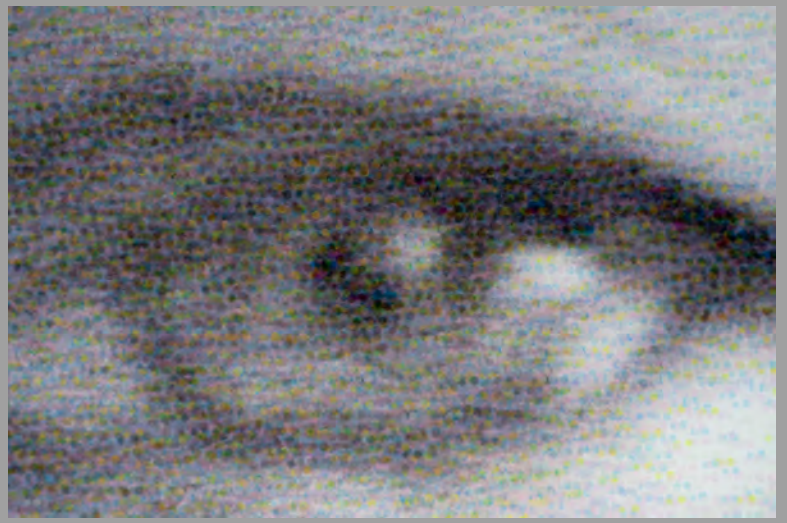


Visible Light



Magnification

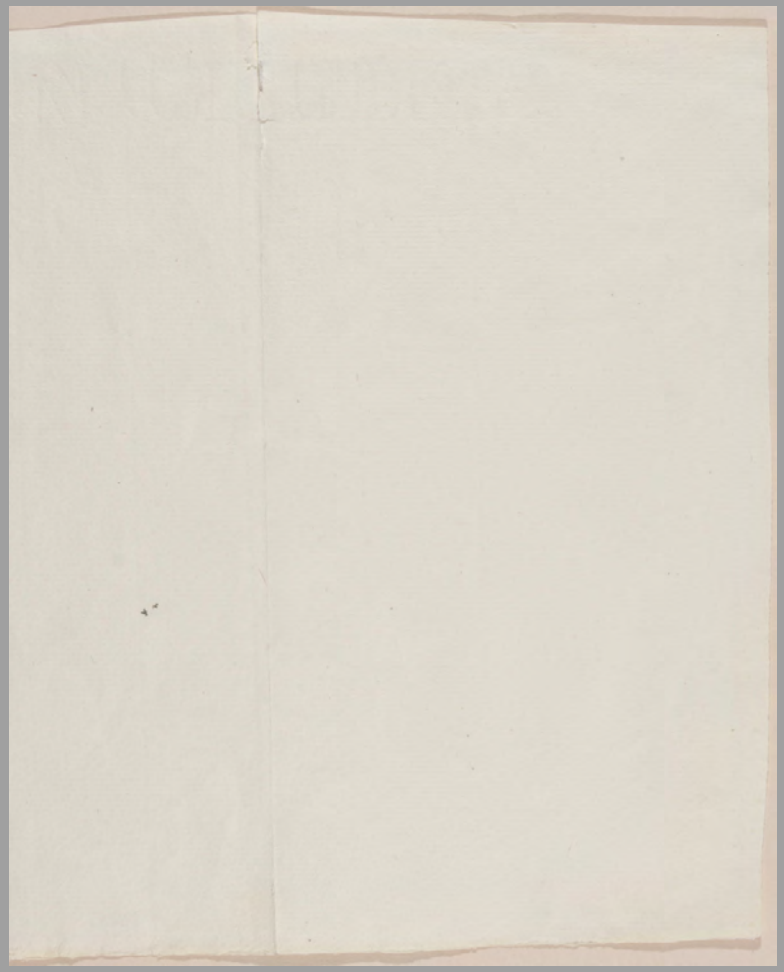
Silver Gelatin DOP (Resin-Coated Paper)

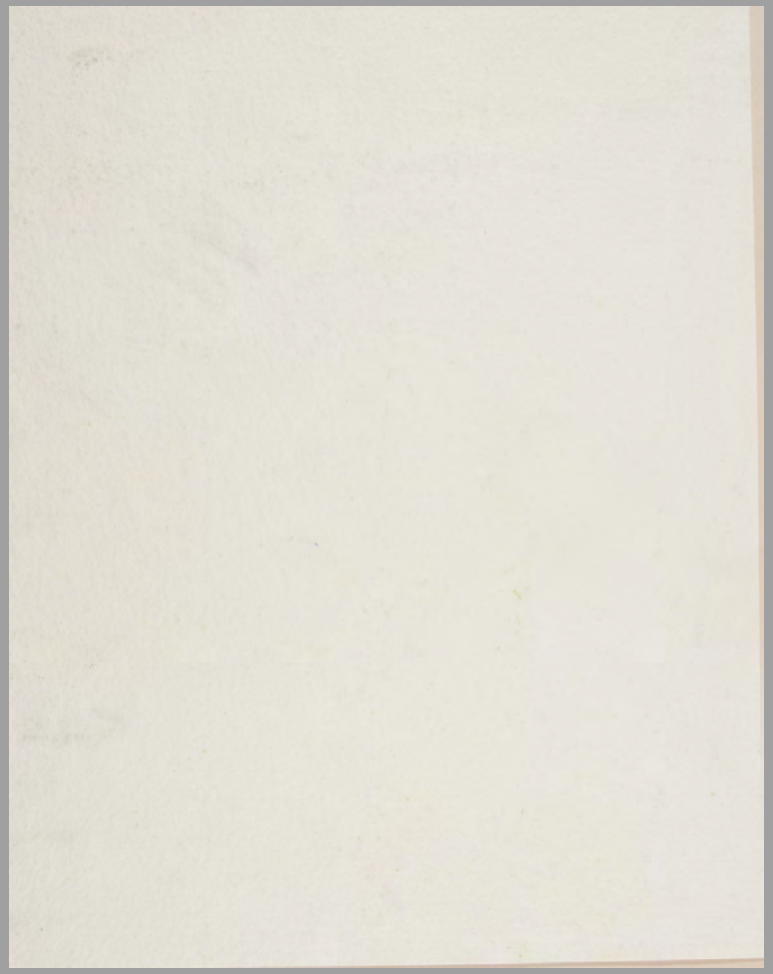


Inkjet (Pigment on Porous, High Gloss, RC)

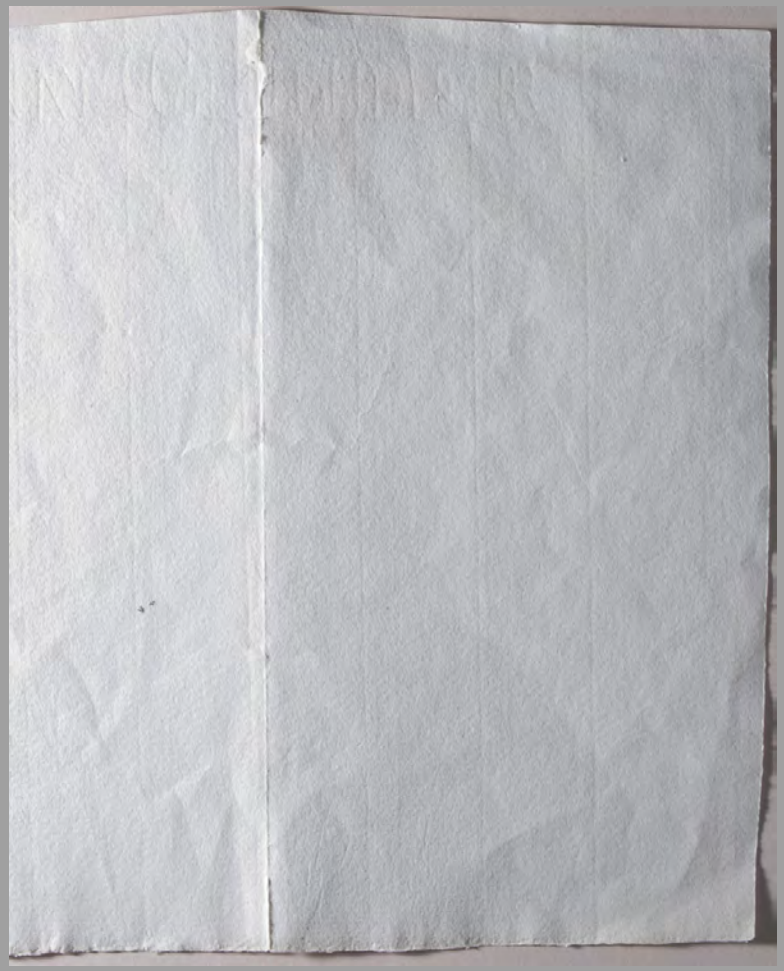
Images: The Graphic Atlas, http://www.graphicsatlas.org.

Raking Light





Visible Light
Raking

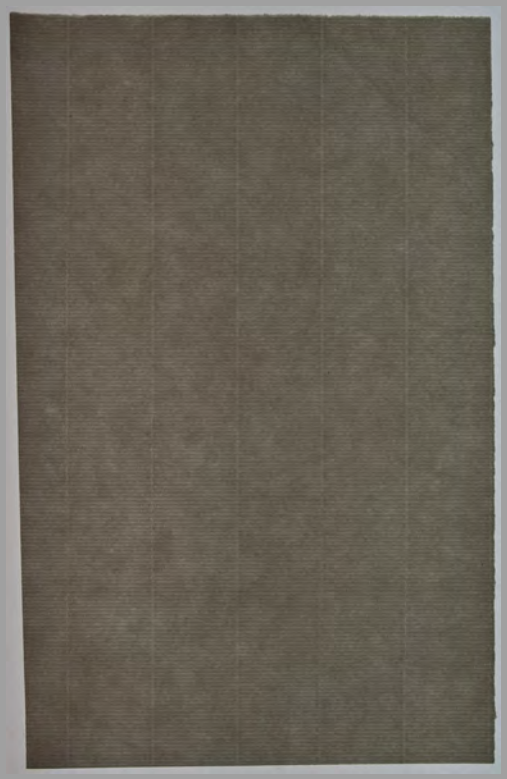
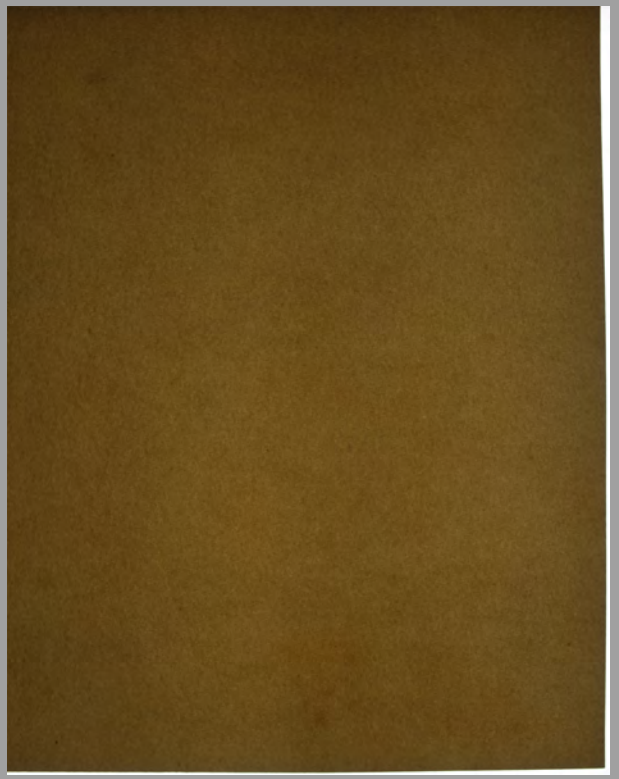


DIRECTION OF LIGHT

Visible Light
Raking

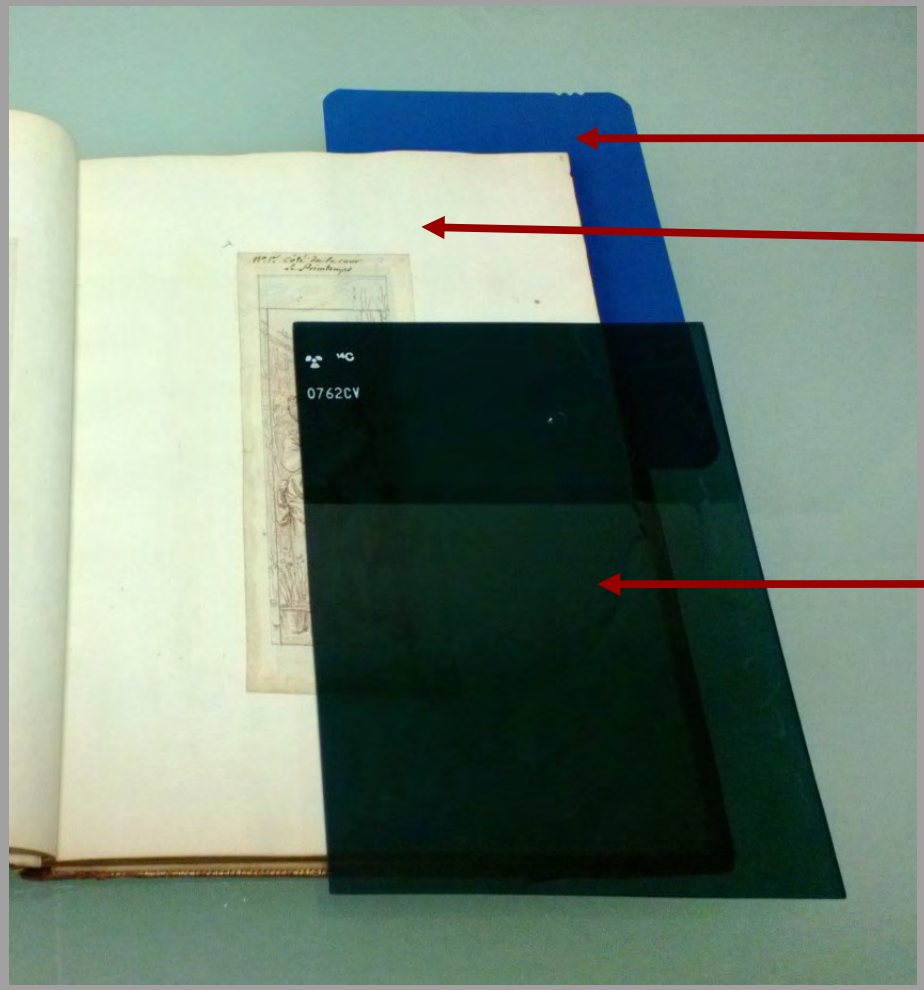
Transmitted Light

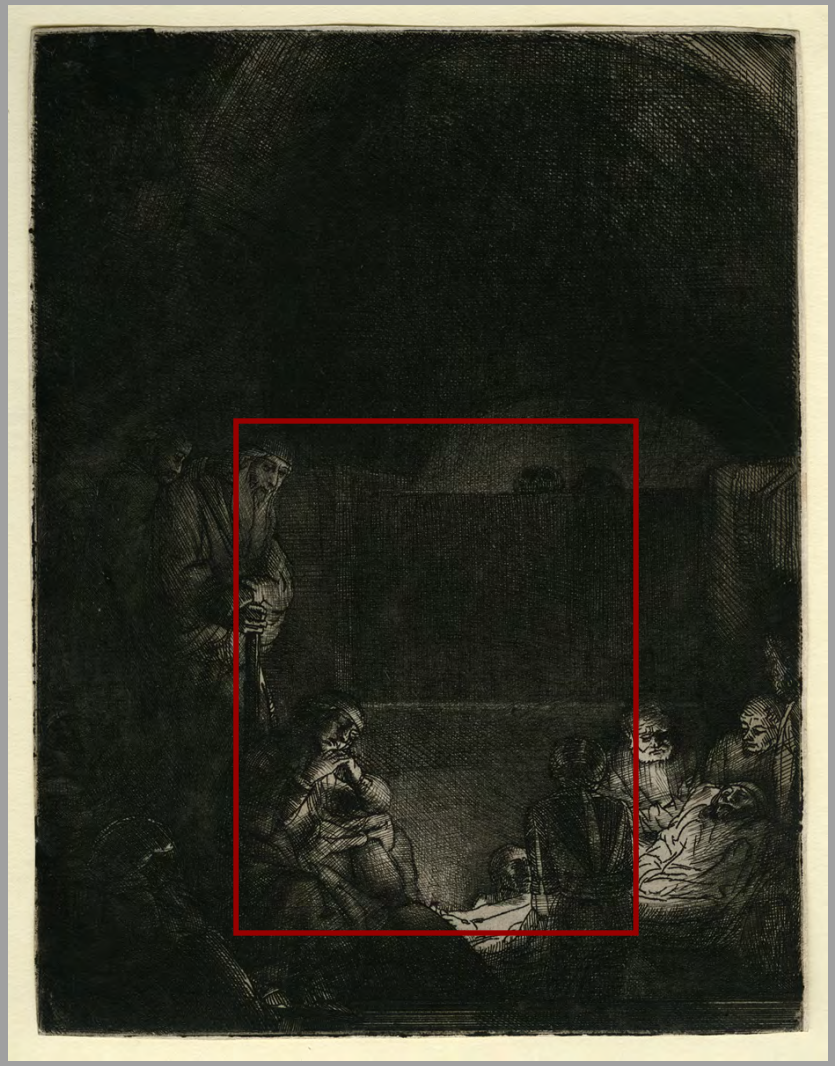
Visible Light
Transmitted

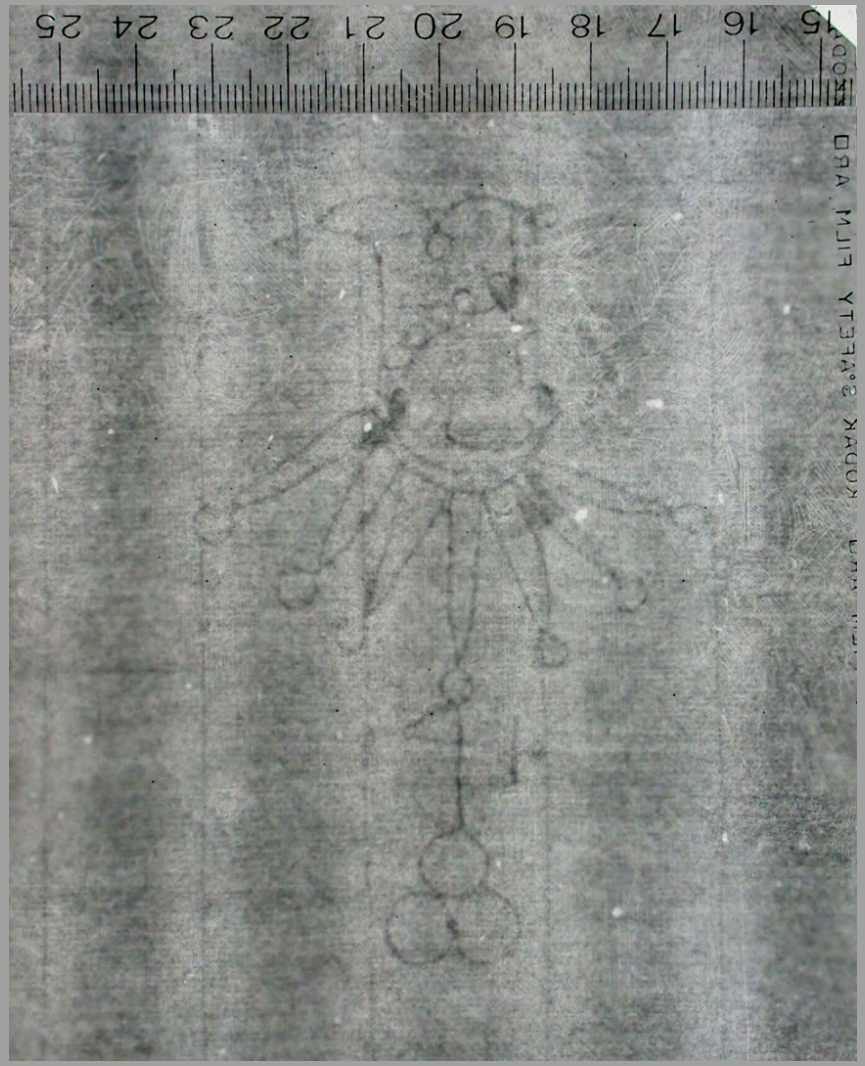



Visible Light
Transmitted

Beta Radiography



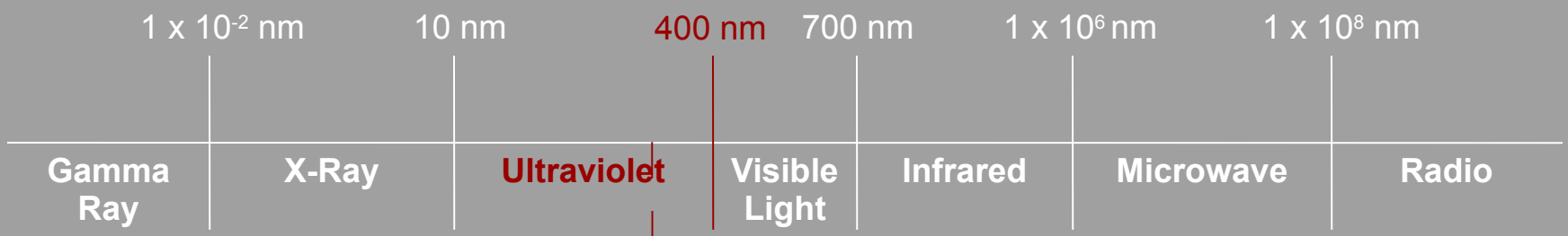


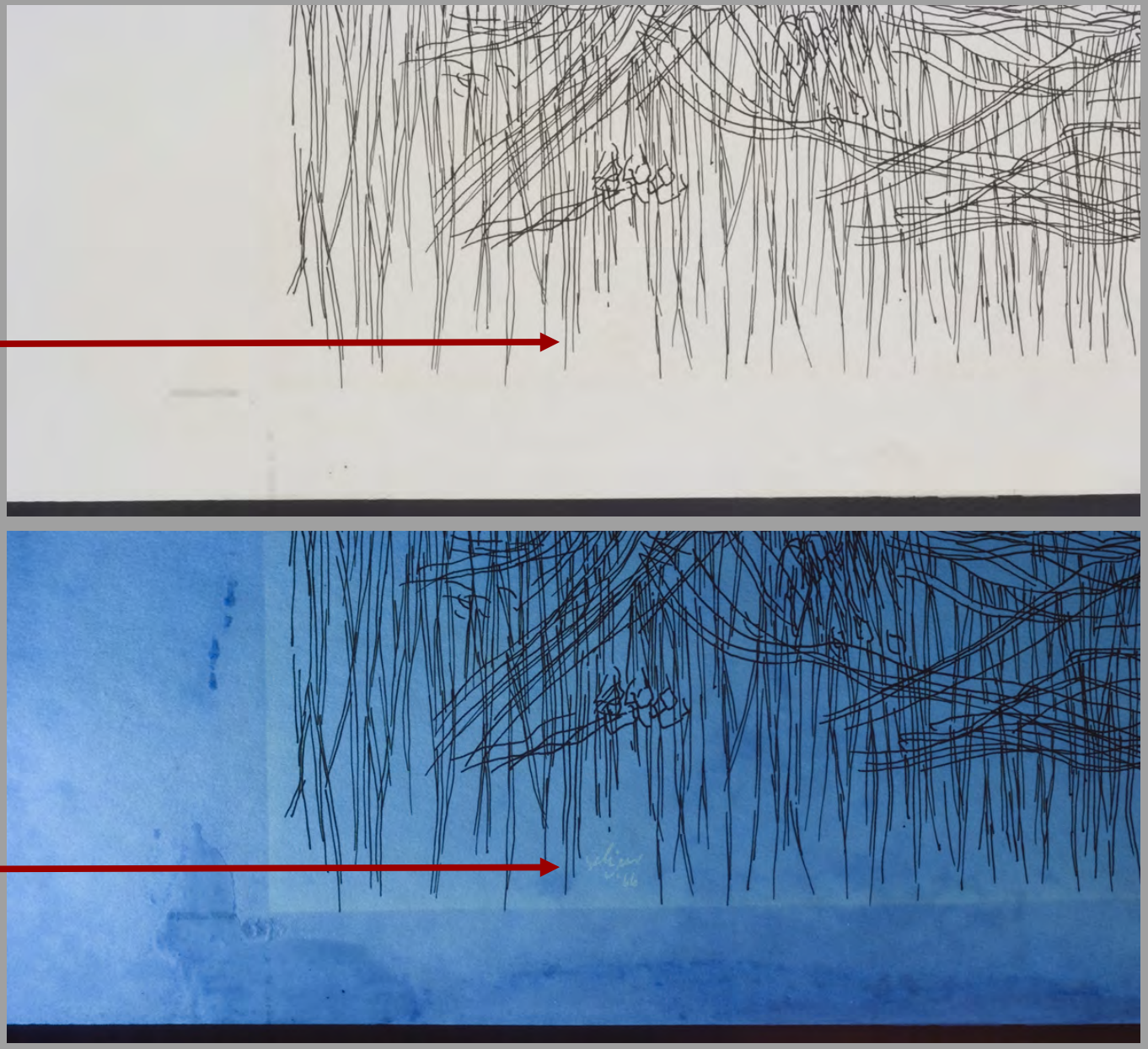


Rembrandt, *The Entombment*, ca. 1654, The Morgan Library & Museum (RvR136). Images: Reba Snyder

Multispectral
Beta Radiography

Ultraviolet Induced Fluorescence

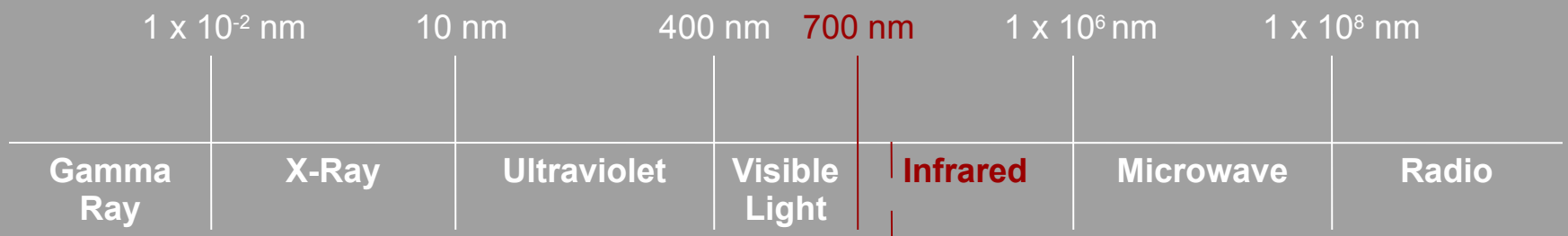




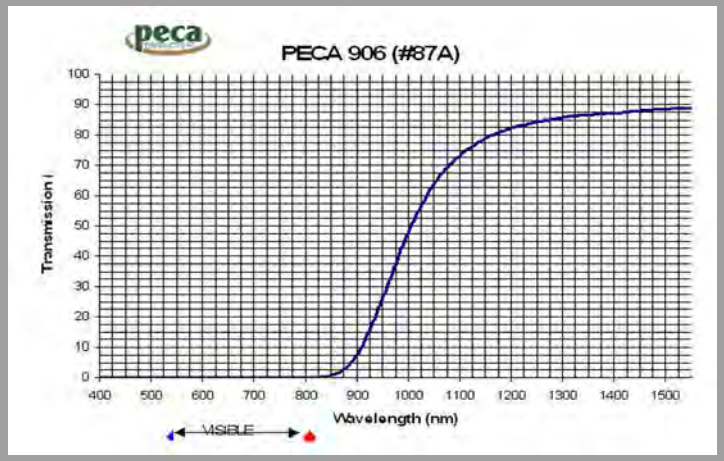
Charles Seliger, *Study for Eagle*, 1966, The Morgan Library & Museum (2009.433). Images: Lindsey Tyne

Multispectral
Ultraviolet Induced Fluorescence

Infrared Reflectography



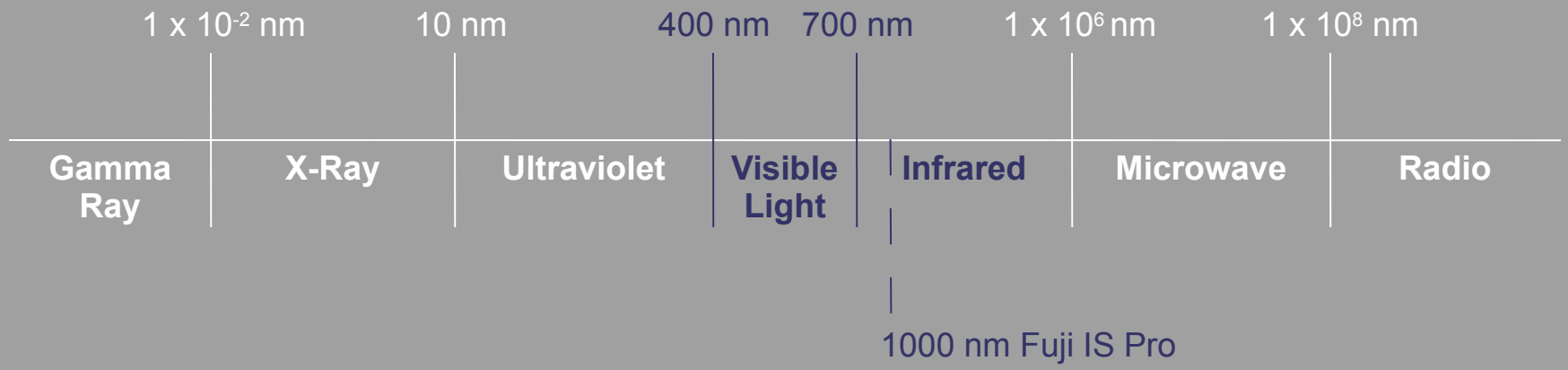
1000 nm Fuji IS Pro

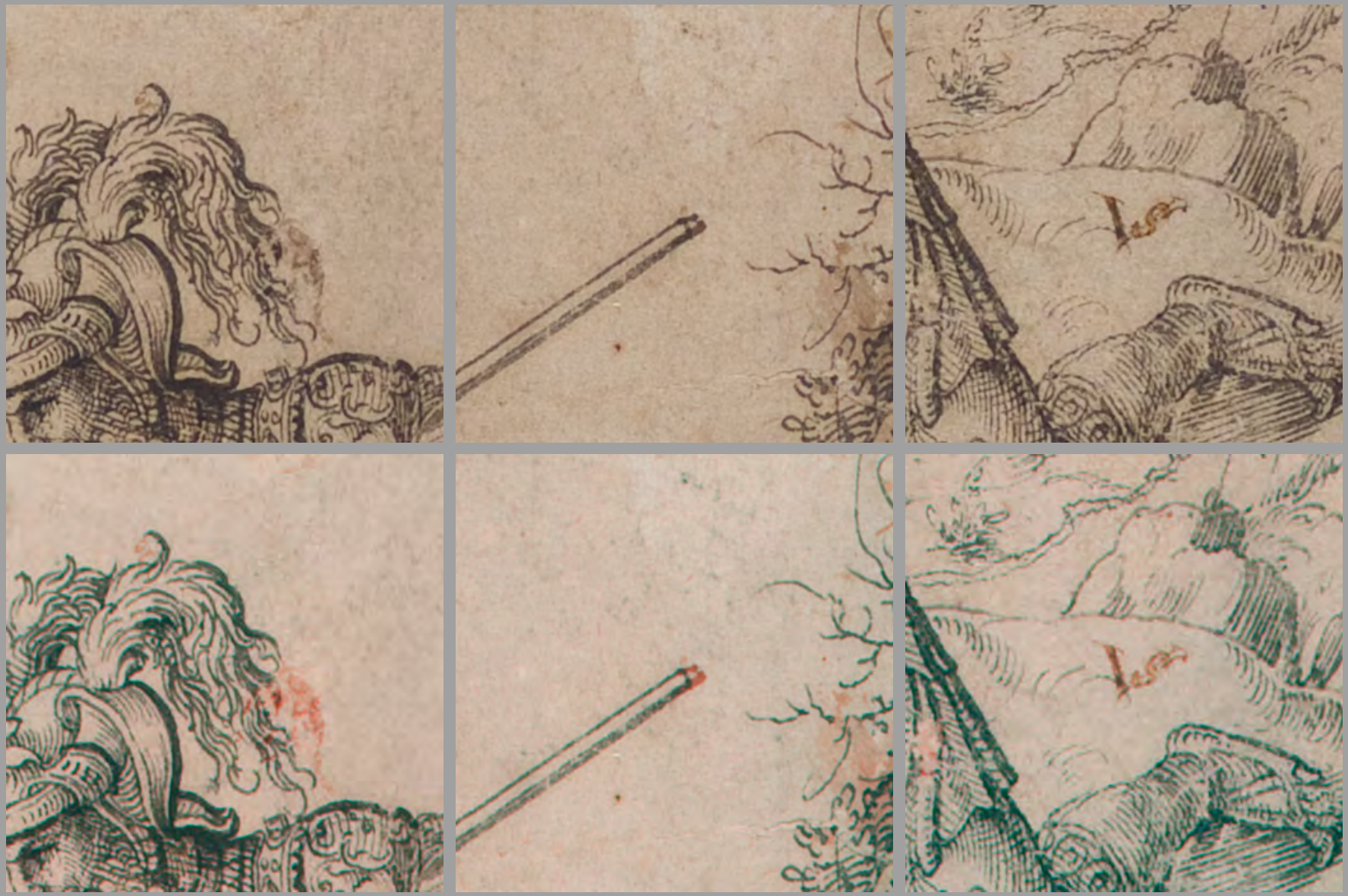


Virgil Solis, *A Horseman Attacking a Fallen Warrior*, 16th century, The Morgan Library & Museum (1974.10). Images: Lindsey Tyne

Multispectral
Infrared Reflectography

False Color Infrared Reflectography (FCIR)





Virgil Solis, *A Horseman Attacking a Fallen Warrior*, 16th century, The Morgan Library & Museum (1974.10). Images: Lindsey Tyne

Digital Manipulation
False Color Infrared Reflectography (FCIR)

Reflectance Transformation Imaging (RTI)

Abraham Bloemaert, *Danaë Receiving the Golden Rain*, ca. 1610, Private Collection. Images: Graham Haber

Digital Manipulation
Reflectance Transformation Imaging (RTI)

Abraham Bloemaert, *Danaë Receiving the Golden Rain*, ca. 1610, Private Collection. Images: Lindsey Tyne

Digital Manipulation
Reflectance Transformation Imaging (RTI)