

Connoisseurship: Between Intuition and Science?

Ron Spronk



Radboud University Nijmegen



intuition →

connoisseurship

← *science*

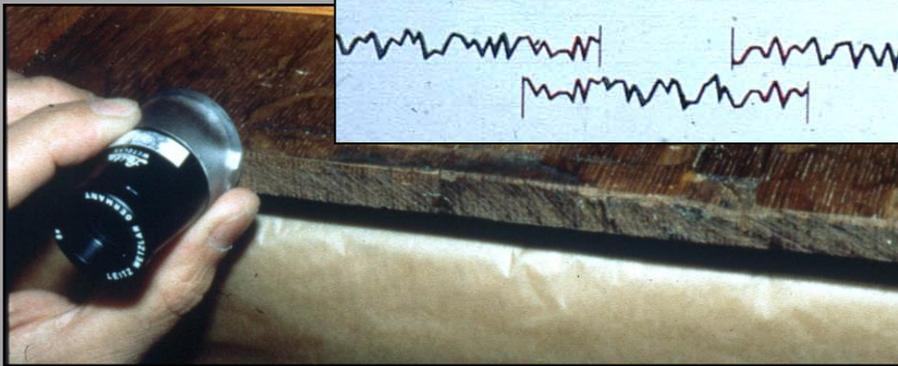
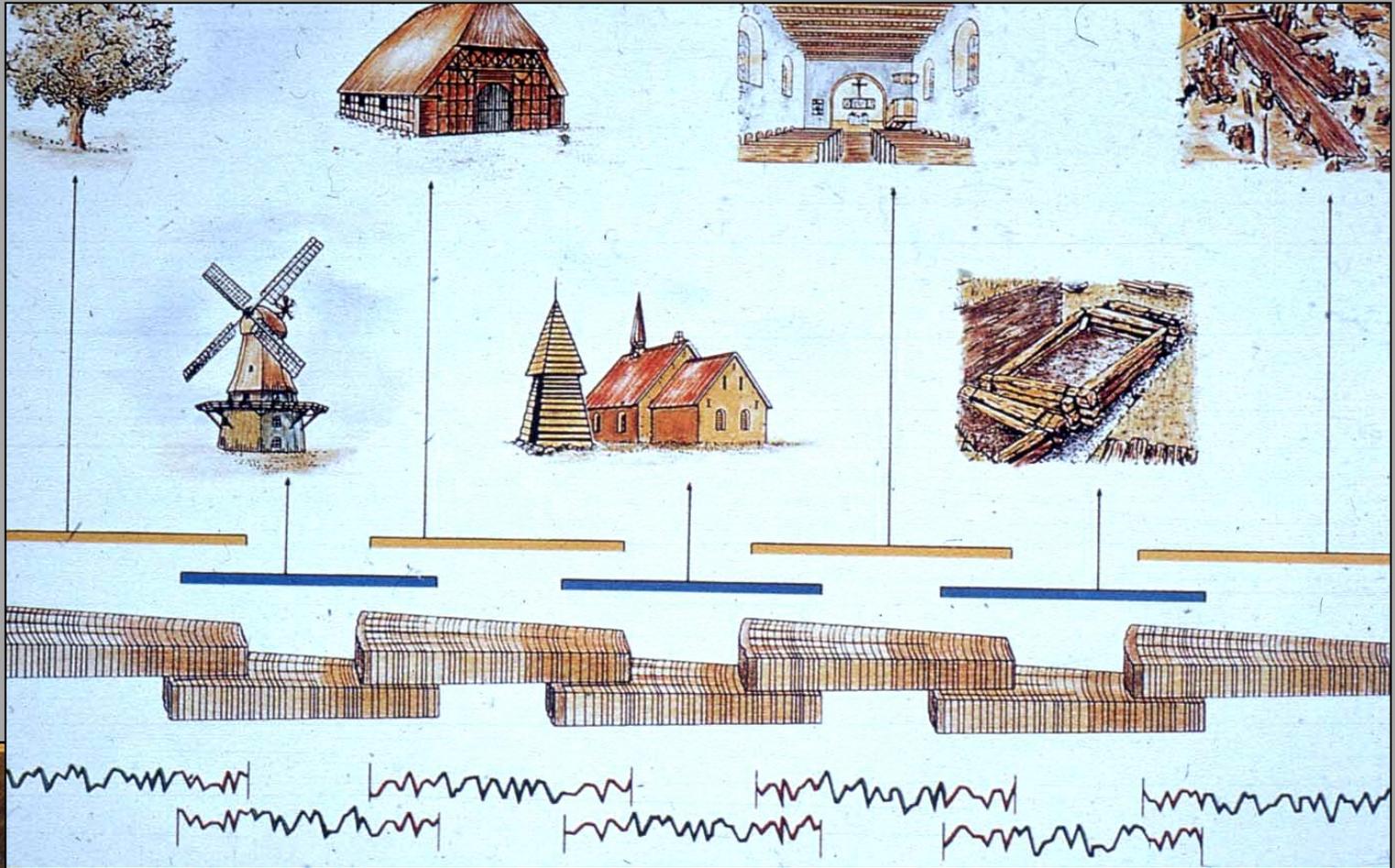
intuition → ***technical examinations*** ← ***science***

intuition →

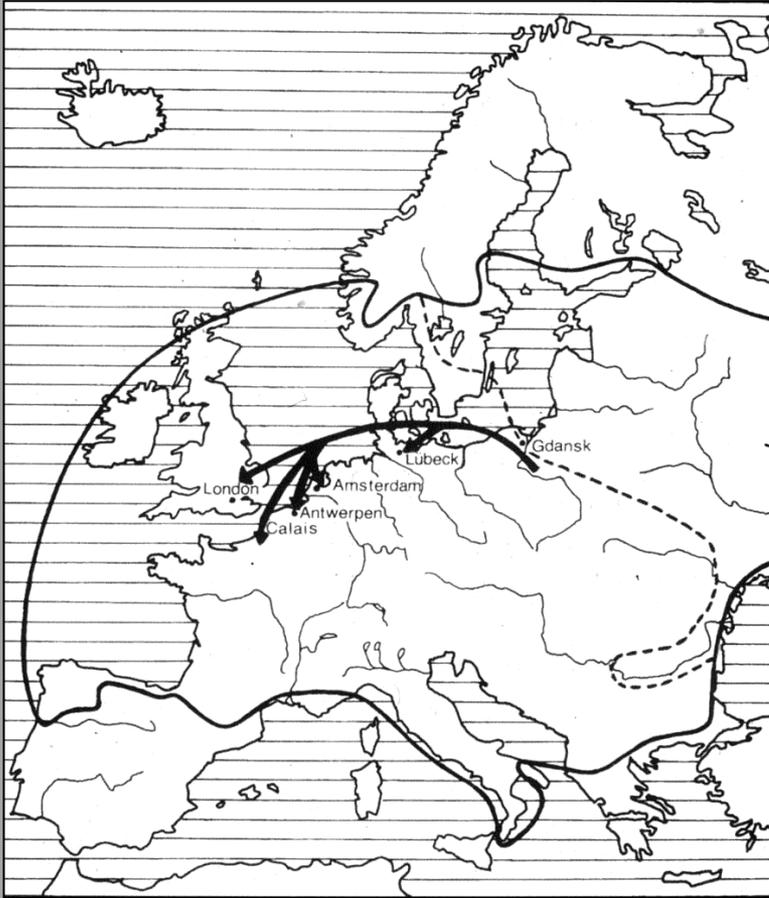
← ***science***



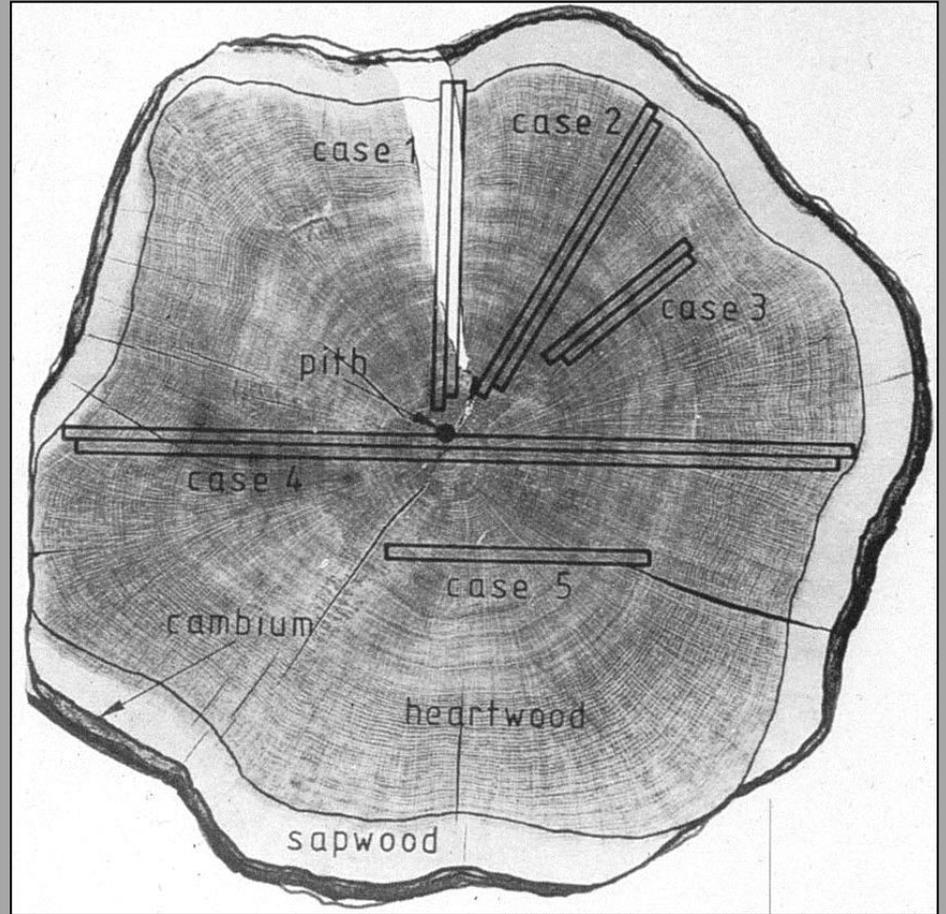
Gas Chromatographer – Mass Spectrometer (GC-MS)



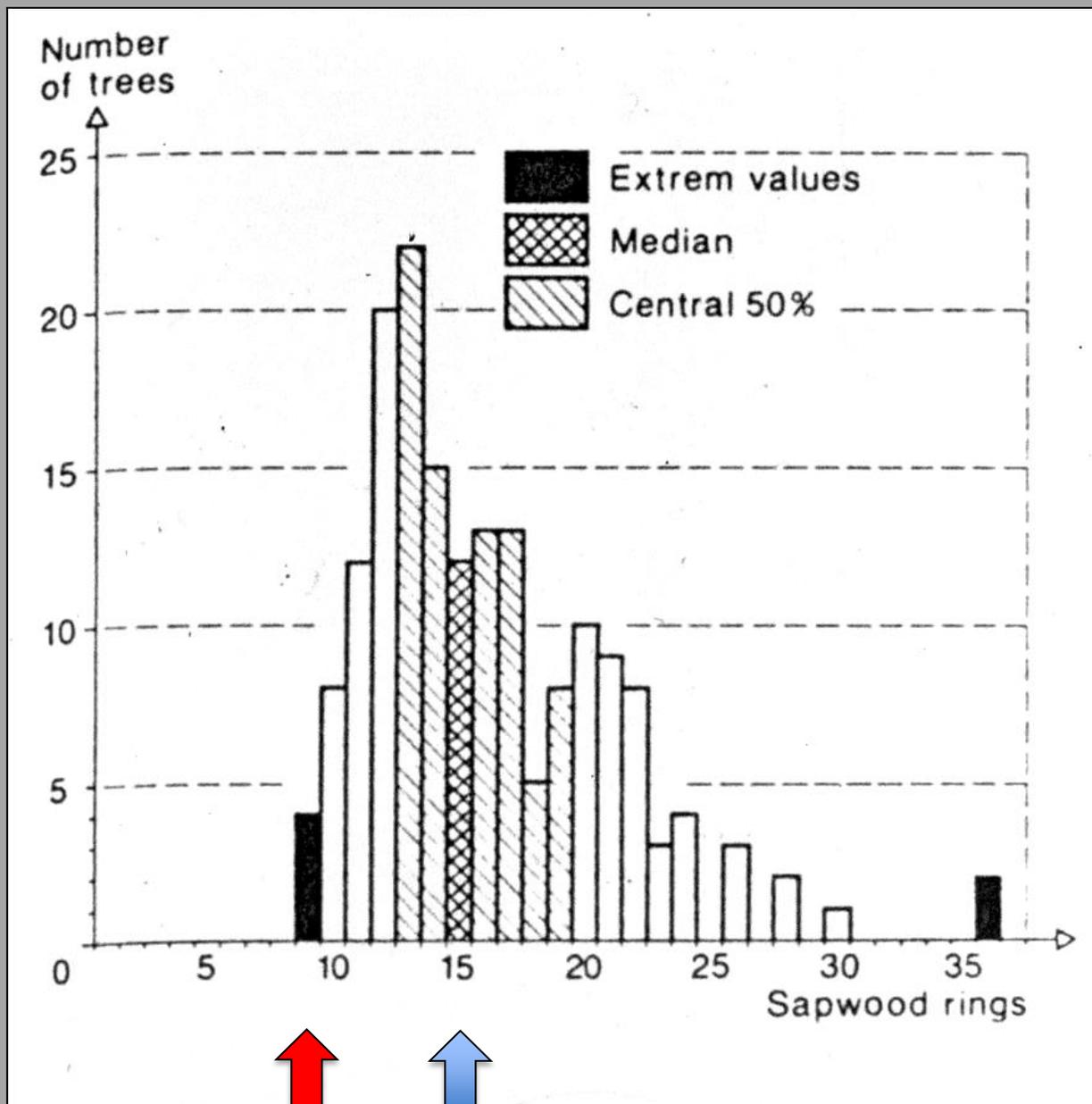
Dendrochronology



Oak trade from the Baltic region



Cross section of oak tree trunk



Number of sapwood rings in 174 living oak trees (from Klein 2003).

Sapwood estimates of pedunculate oak (*Quercus robur* L.) in eastern Baltic

Kristina Sohar¹, A. Vitas² and A. Läänelaid¹

¹Department of Geography, Institute of Ecology and Earth Sciences, University of Tartu, Estonia

²Environmental Research Centre Group of Dendroclimatology and radiometrics, Faculty of Nature Sciences, Vytautas Magnus University, Lithuania

Sapwood estimates of pedunculate oak (*Quercus robur* L.) in eastern Baltic

Kristina Sohar¹, A. Vitas² and A. Läänelaid¹

¹Department of Geography, Institute of Ecology and Earth Sciences, University of Tartu, Estonia

²Environmental Research Centre Group of Dendroclimatology and radiometrics, Faculty of Nature Sciences, Vytautas Magnus University, Lithuania

- Much larger data set (660 samples) from 43 different locations in southern Finland, Estonia, Latvia, and Lithuania
- Between **6 and 19 rings** in eastern Estonia, Latvia, Lithuania, 95% confidence limit
- Sapwood ring numbers generally decrease towards the east.



Jheronimus Bosch, *Haywain*, Prado

Most recent growth ring: **1499**

Earliest possible felling date (1499 + 9 sapwood rings and 2 years for seasoning and transportation): **1510**



Jheronimus Bosch, *Haywain*, Escorial

Most recent growth ring: **1487**

Earliest possible felling date (1487 + 9 sapwood rings and 2 years for seasoning and transportation): **1498**



Prado *Haywain*, detail



Prado *Haywain*, detail



Prado *Haywain*, detail (IRR, 1100-1700nm)



Jheronimus Bosch, *Ecce Homo*, 71 x 61 cm.
Frankfurt, Städel Museum.



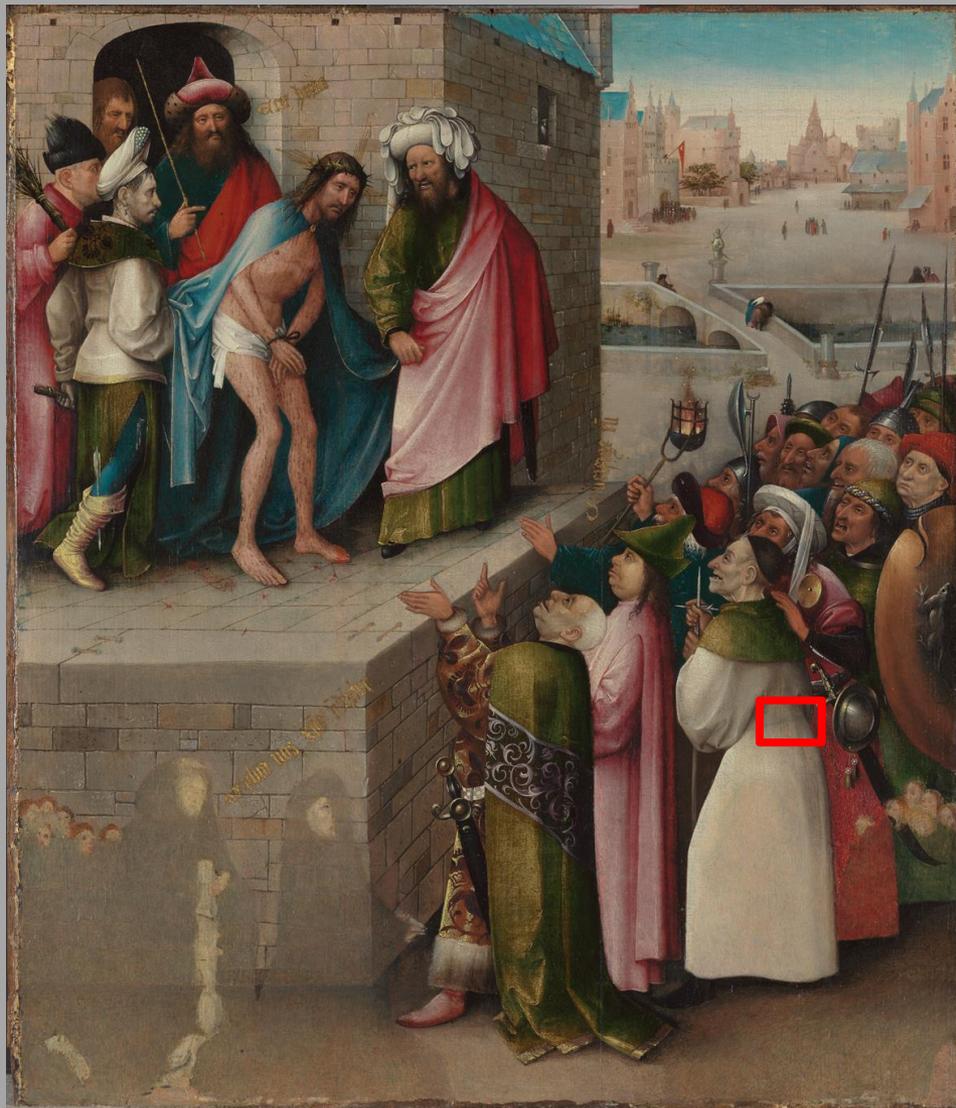
Jheronimus Bosch, *Ecce Homo*, 71 x 61 cm.
Frankfurt, Städel Museum.



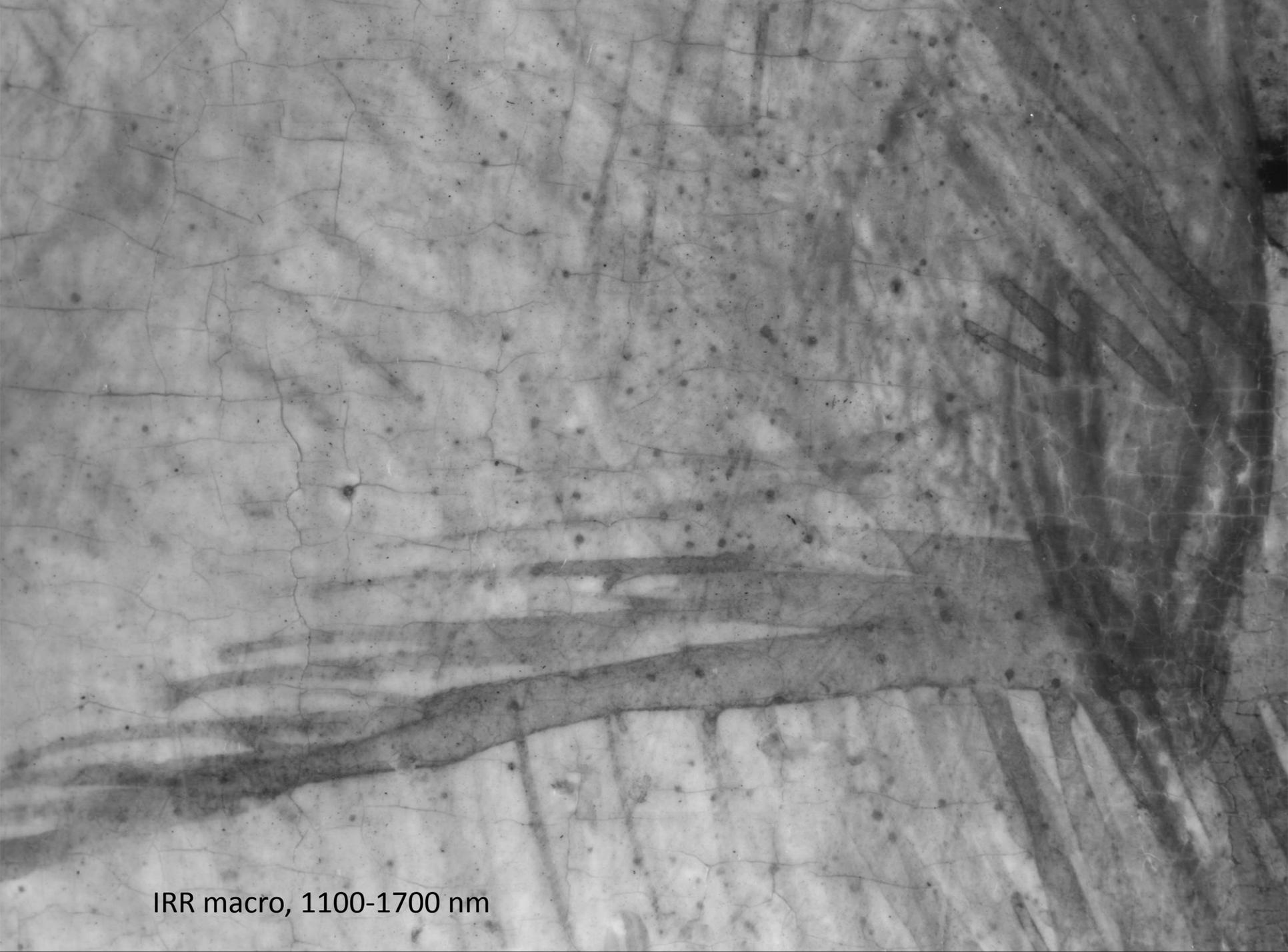
Ecce Homo, detail



Idem (IRR, 1100-1700nm)



Jheronimus Bosch, *Ecce Homo*, 71 x 61 cm.
Frankfurt, Städel Museum.



IRR macro, 1100-1700 nm

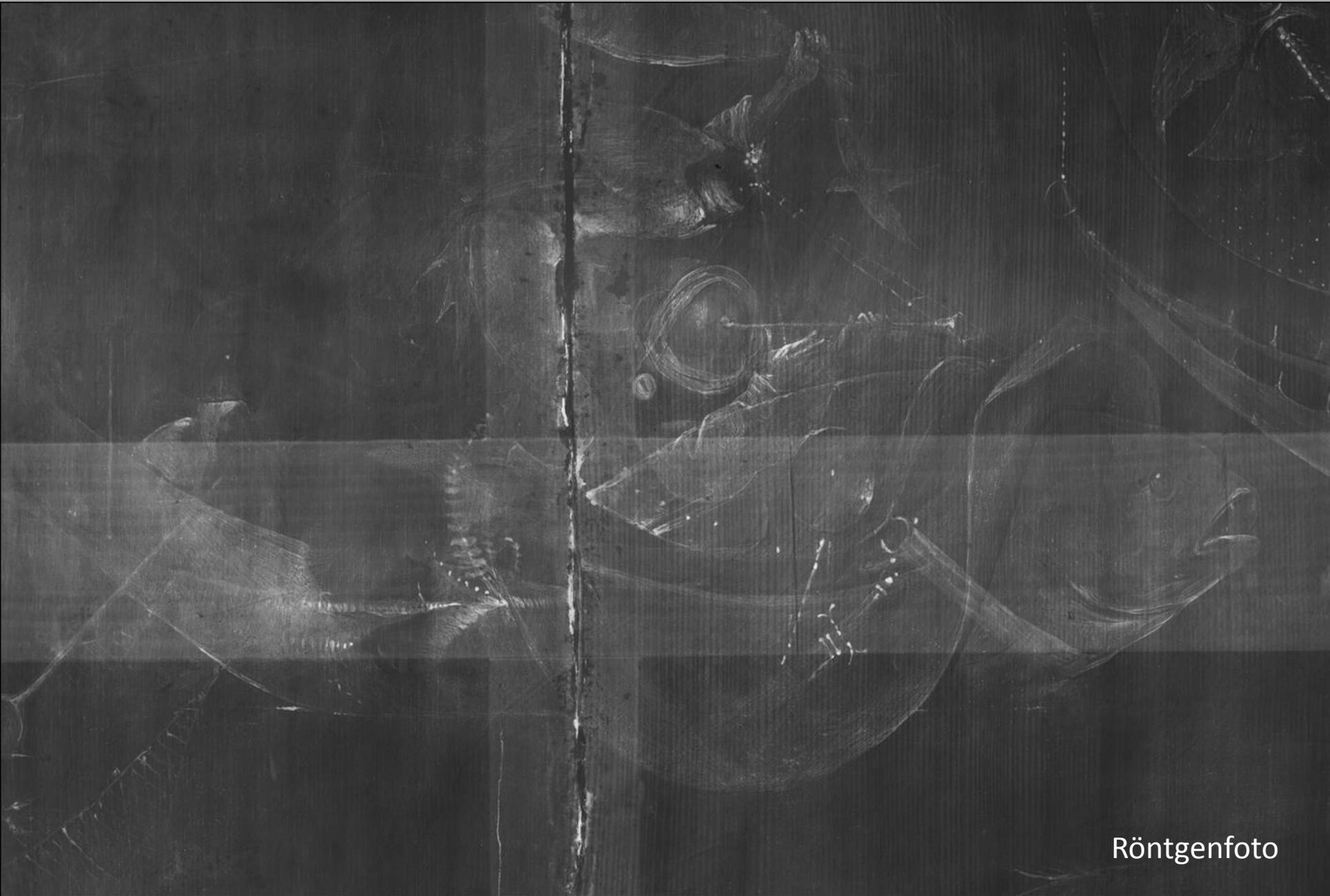


Temptations of St Anthony triptych
Lisbon, Museu Nacional de Arte Antiga.



Temptations of St Anthony
Lisbon, Museu Nacional de Arte Antiga.

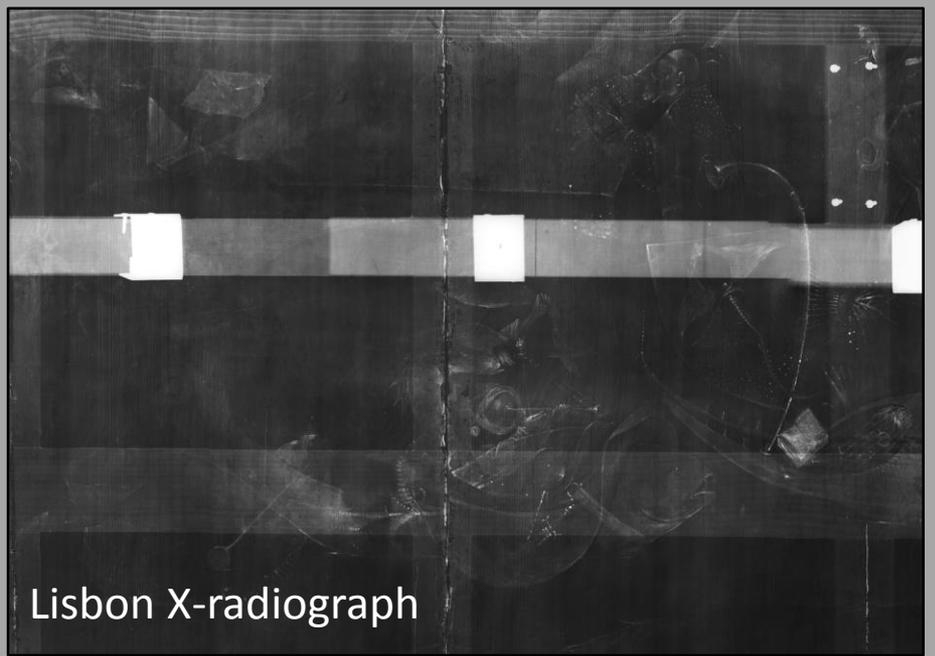




Röntgenfoto



Lisbon



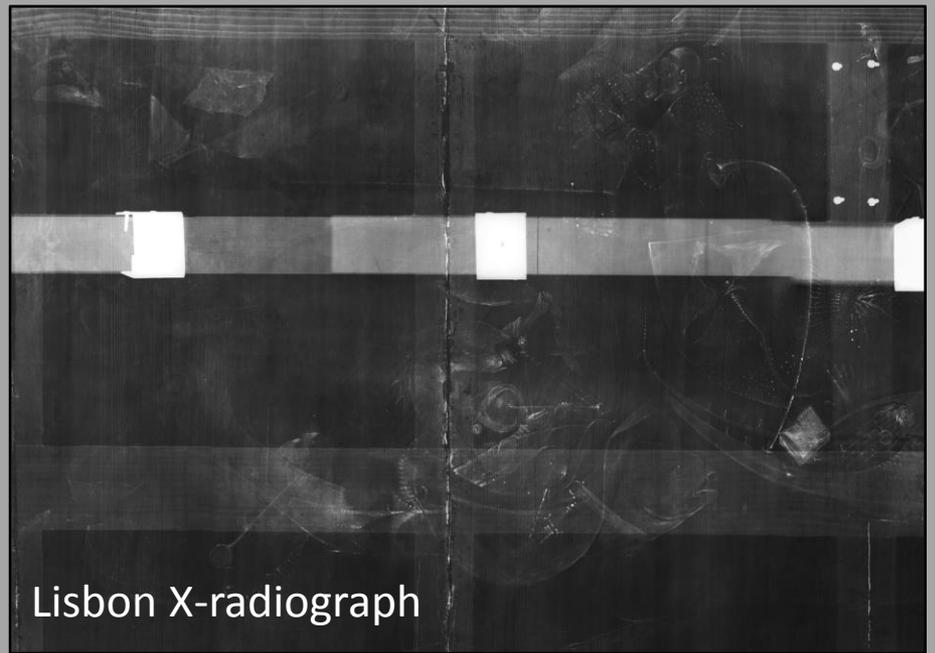
Lisbon X-radiograph



Lisbon IRR



Lisbon



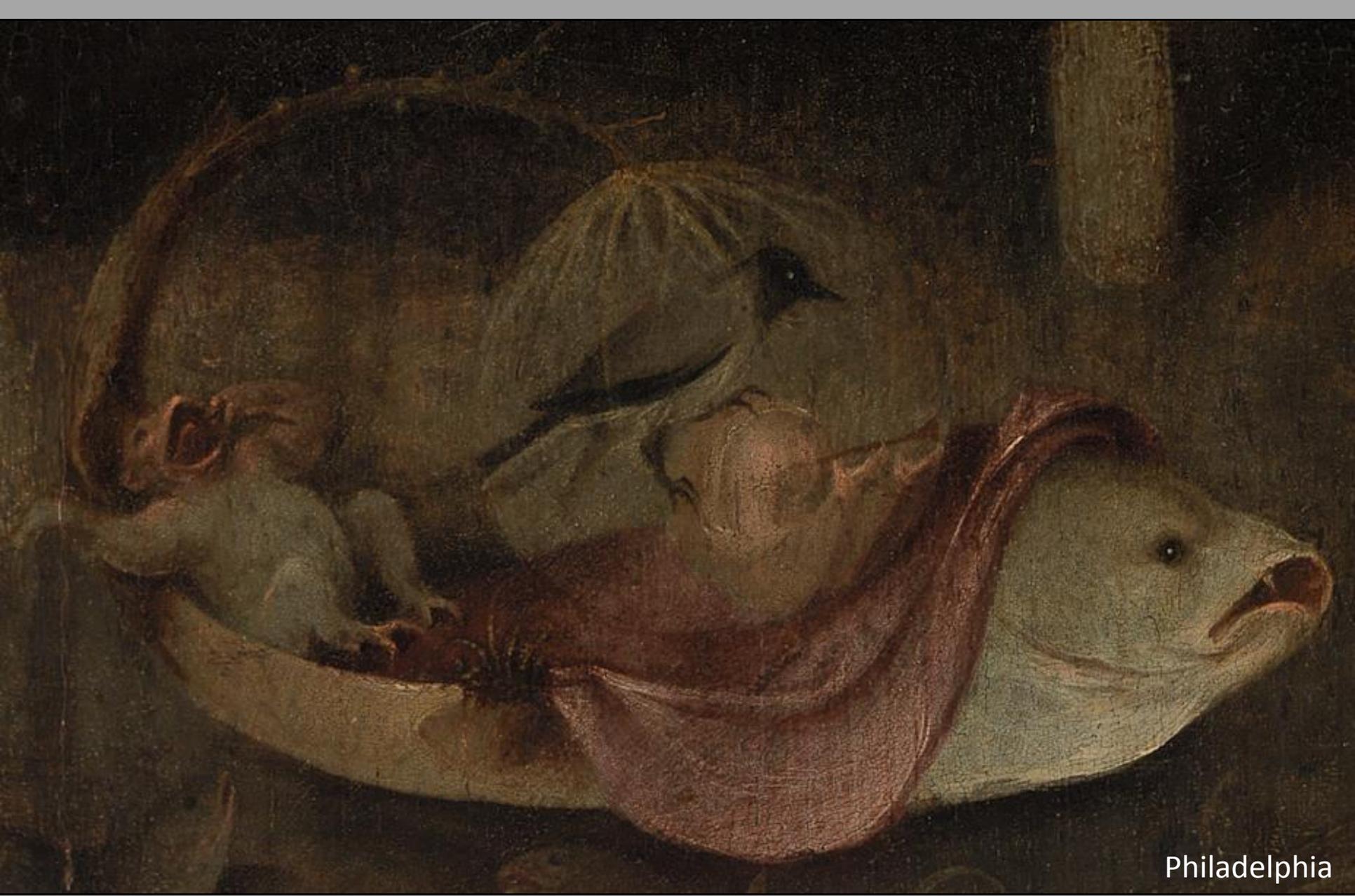
Lisbon X-radiograph



Lisbon IRR



Barnes Foundation



Philadelphia



Copy after Jheronimus Bosch,
Temptations of St Anthony, mid 16th c.
70 x 52 cm.
Barnes Foundation, Philadelphia



Workshop Jheronimus Bosch?
Temptations of St Anthony,
70 x 52 cm.
Barnes Foundation, Philadelphia

