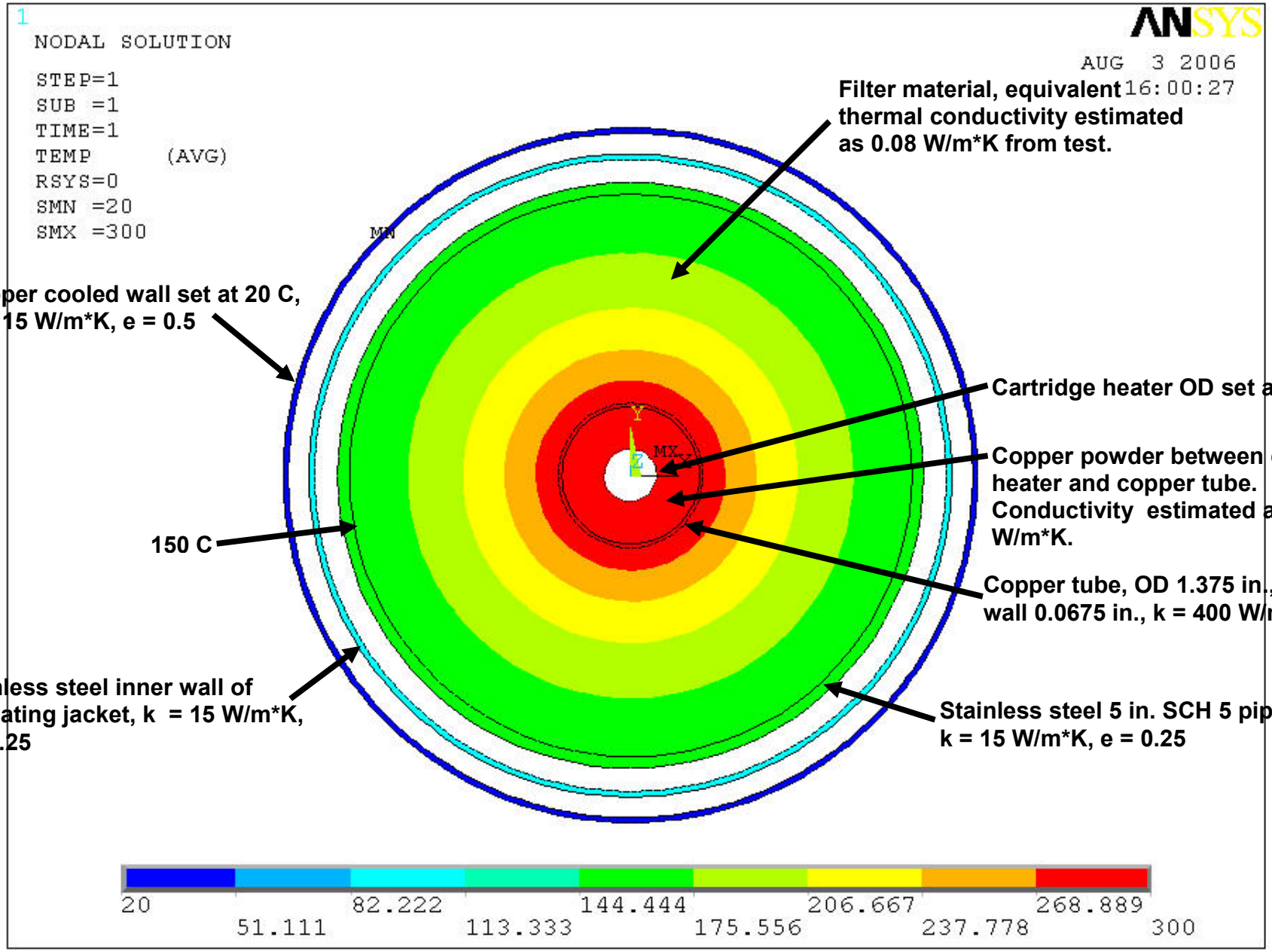
Terry Tope 8/3/06



Filter material, equivalent thermal conductivity estimated as 0.08 W/m*K from test.

Copper cooled wall set at 20 C, k = 15 W/m*K, e = 0.5

Cartridge heater OD set at 300 C.

Copper powder between cartridge heater and copper tube. Conductivity estimated as 4 W/m*K.

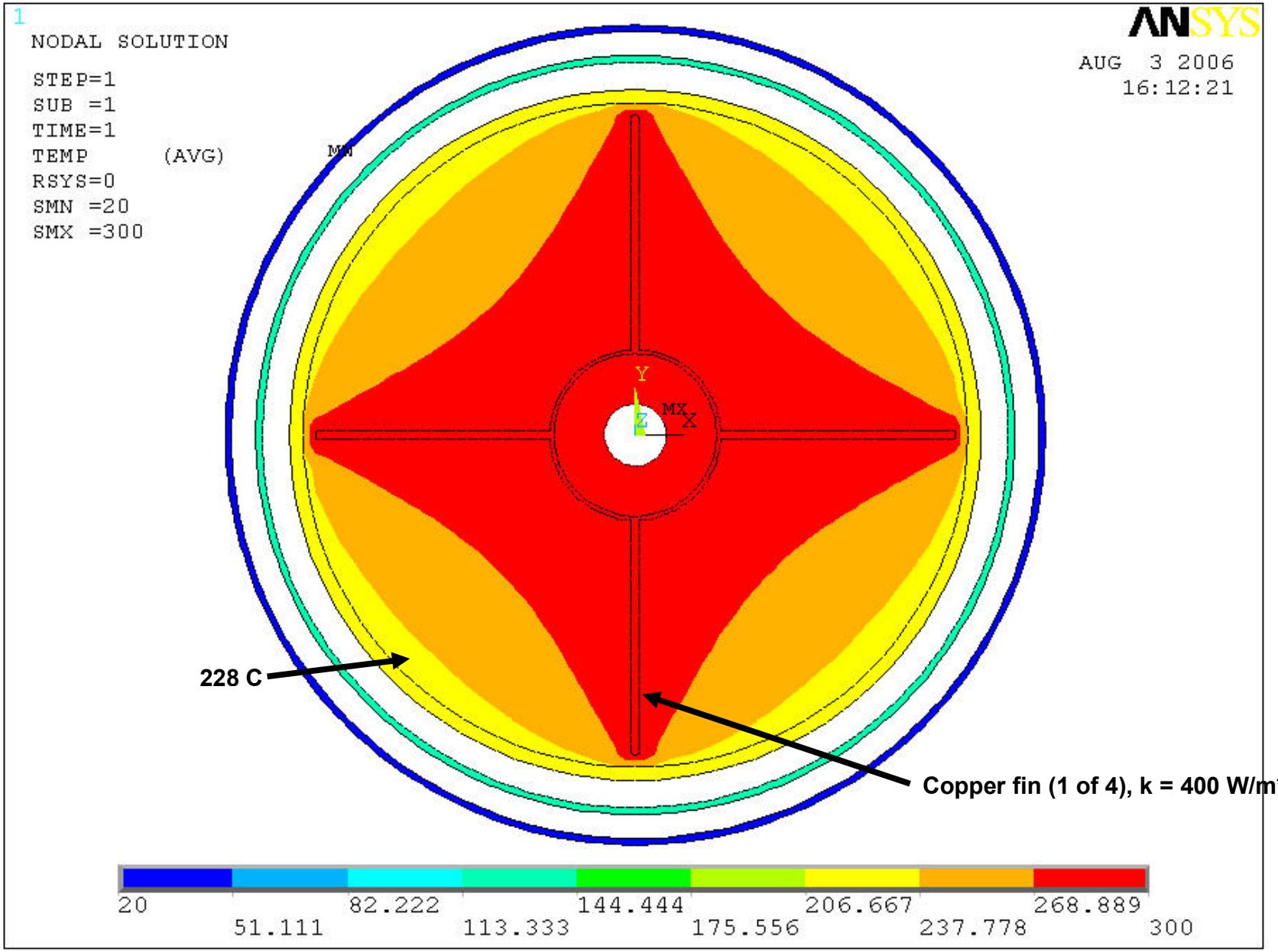
150 C

Copper tube, OD 1.375 in., wall 0.0675 in., k = 400 W/m*K

Stainless steel inner wall of insulating jacket, k = 15 W/m*K, e = 0.25

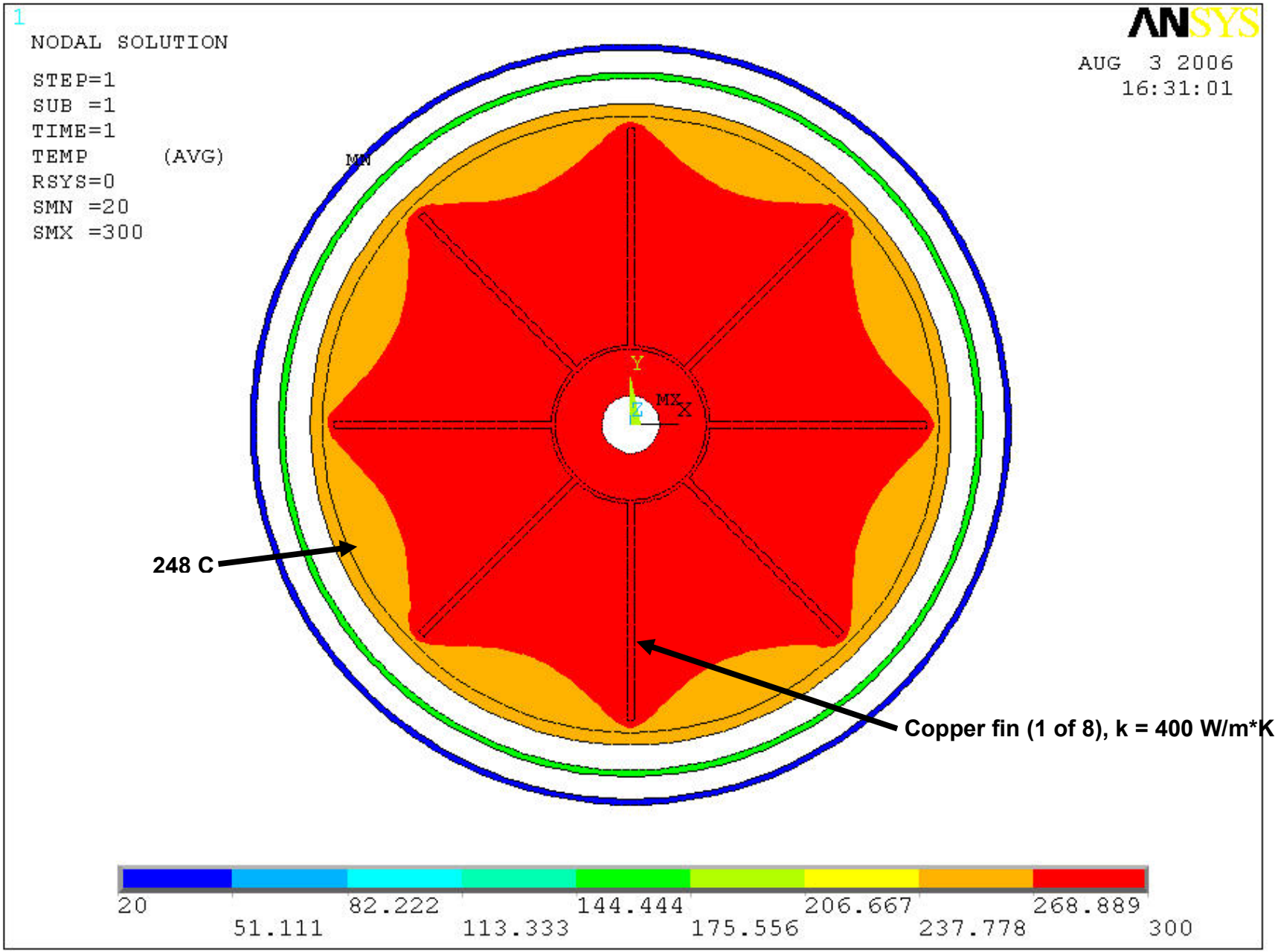
Stainless steel 5 in. SCH 5 pipe. k = 15 W/m*K, e = 0.25

Degrees Celsius



Degrees Celsius

Terry Tope 8/3/06



Degrees Celsius