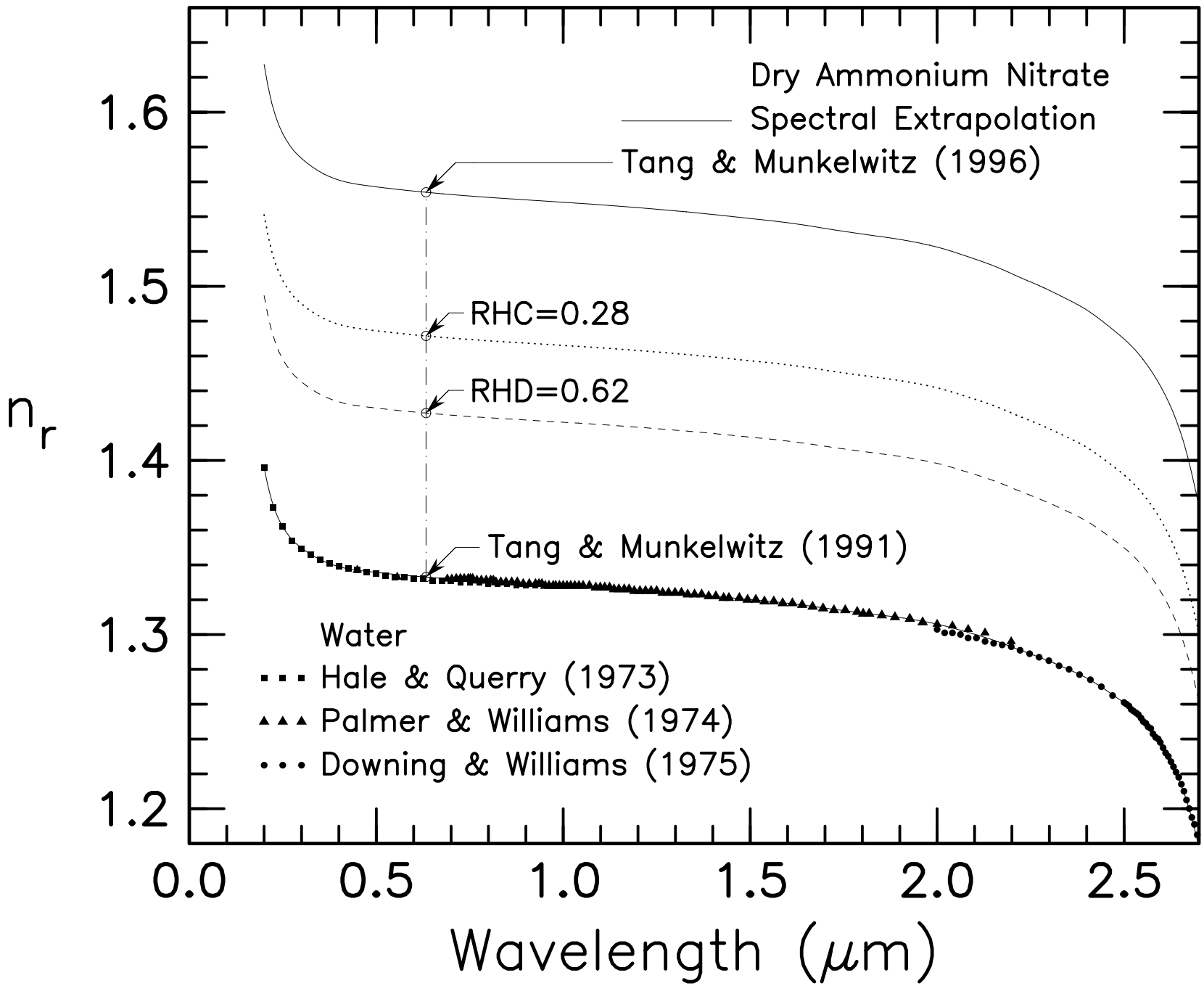
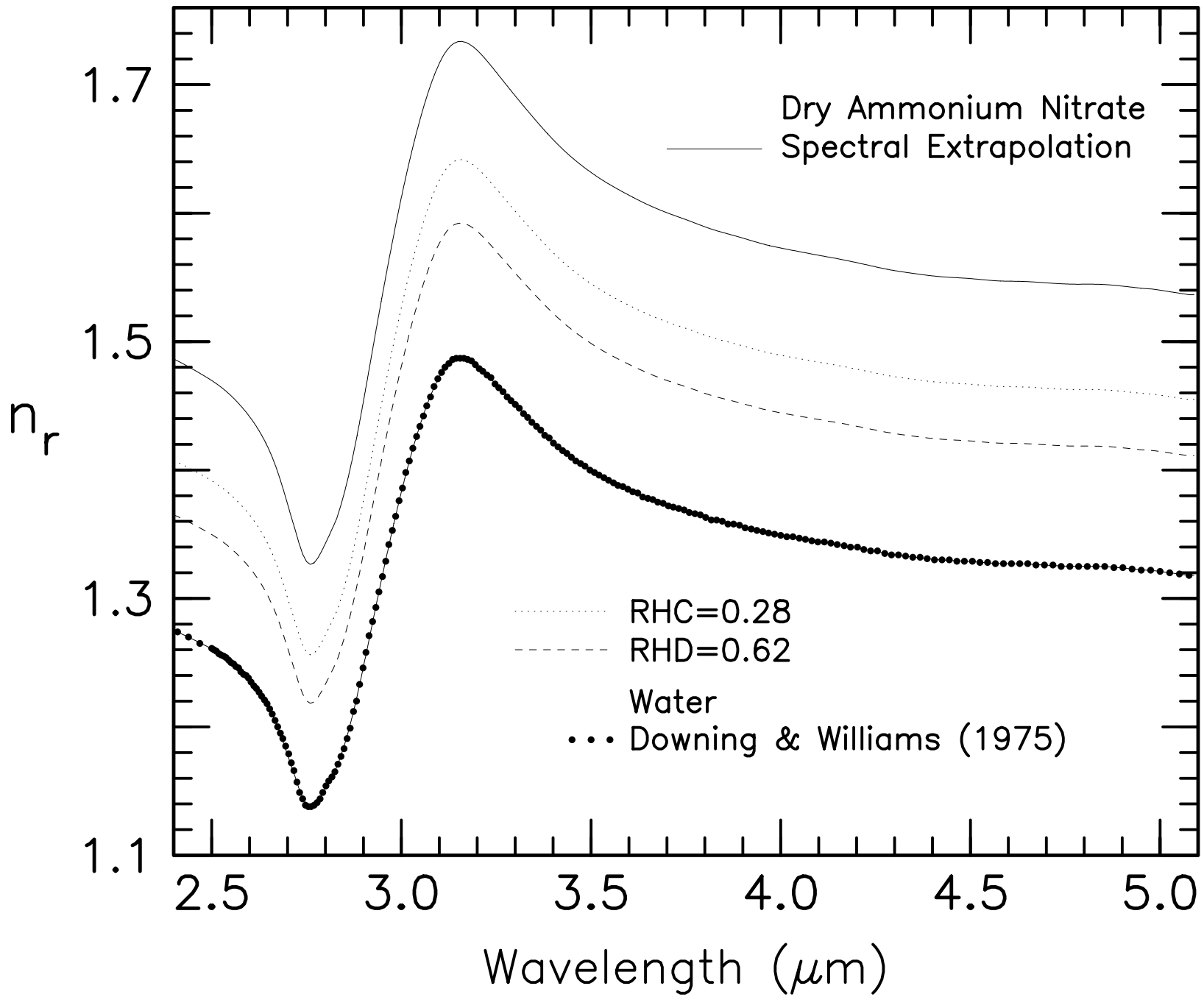
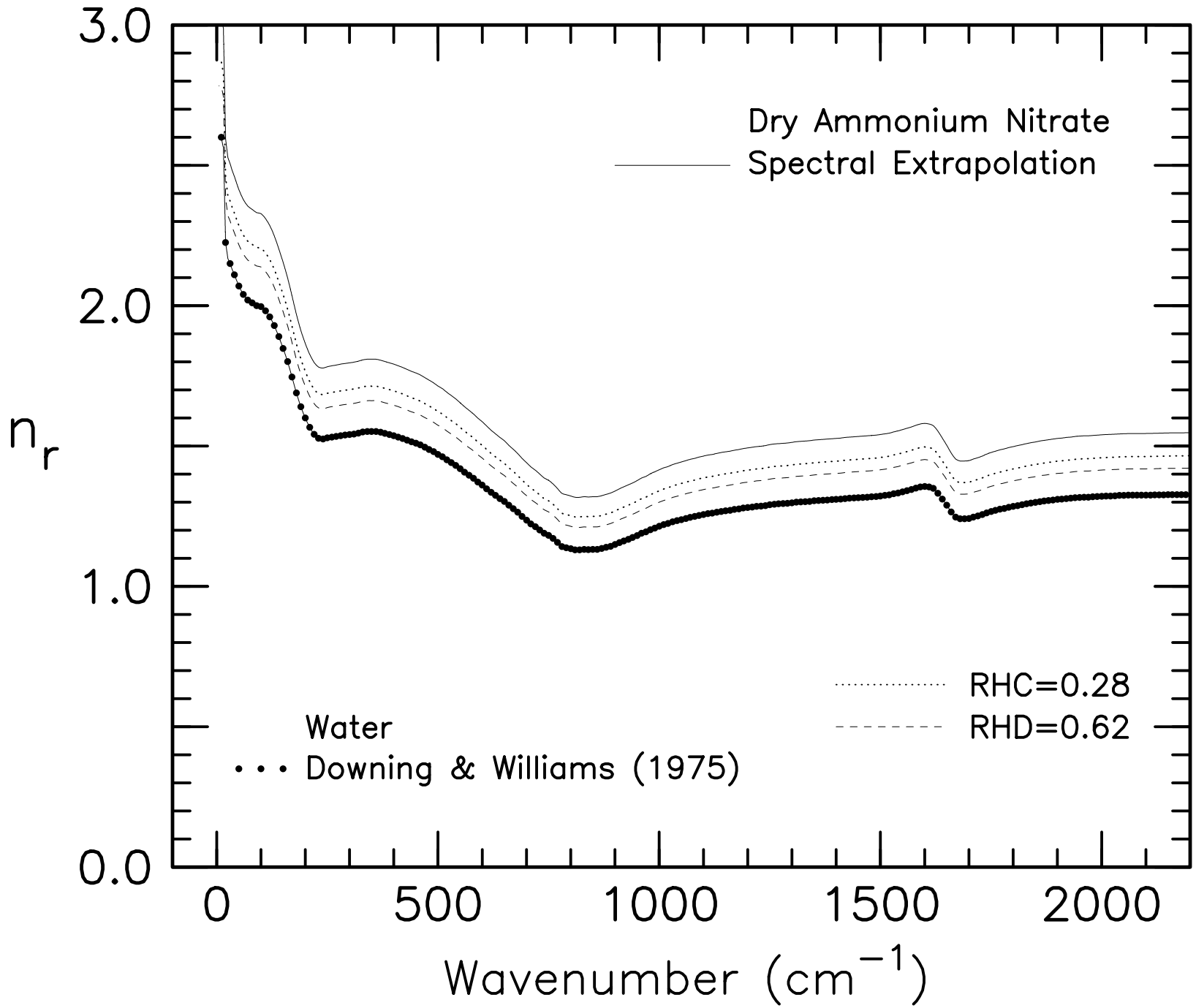
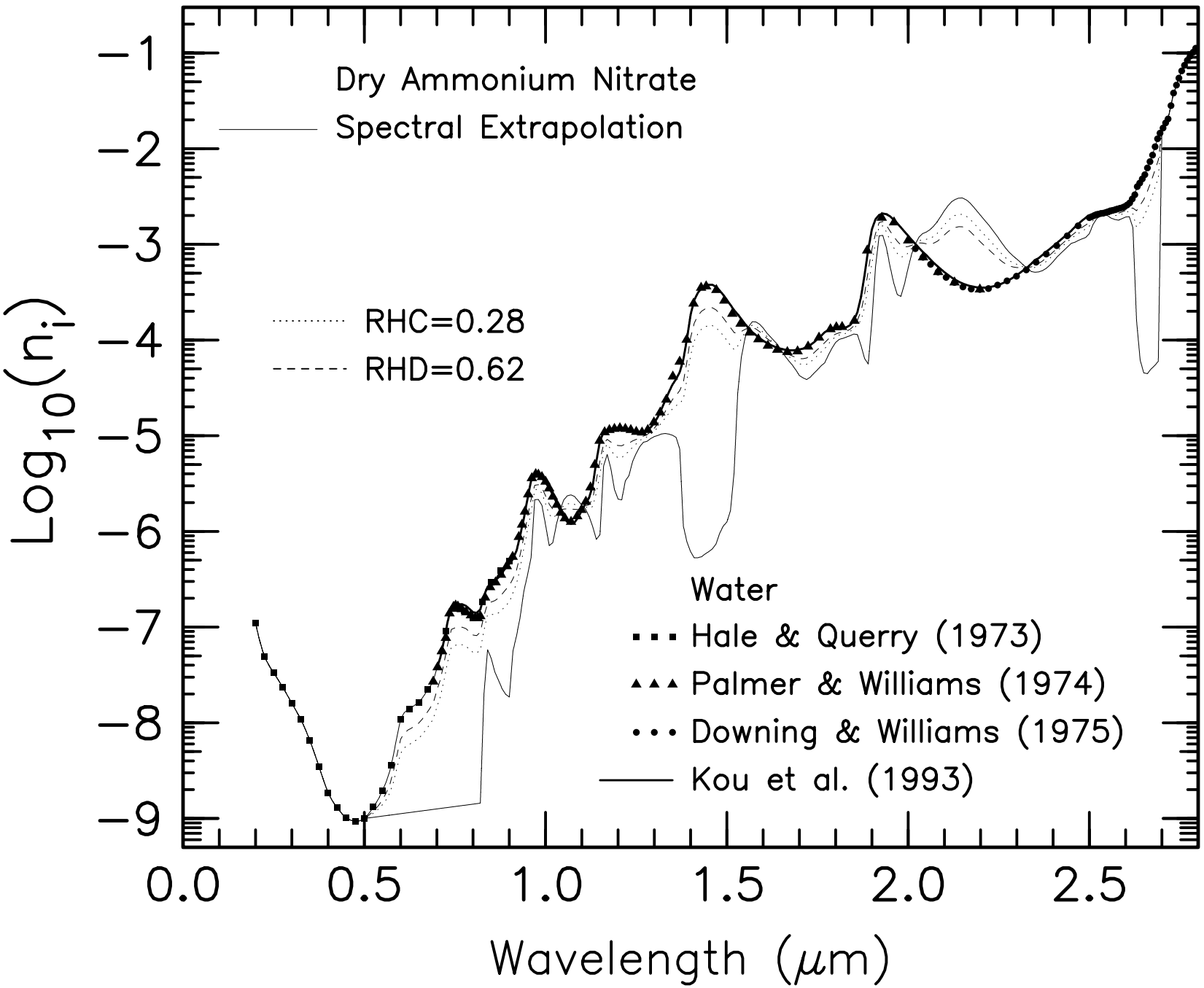
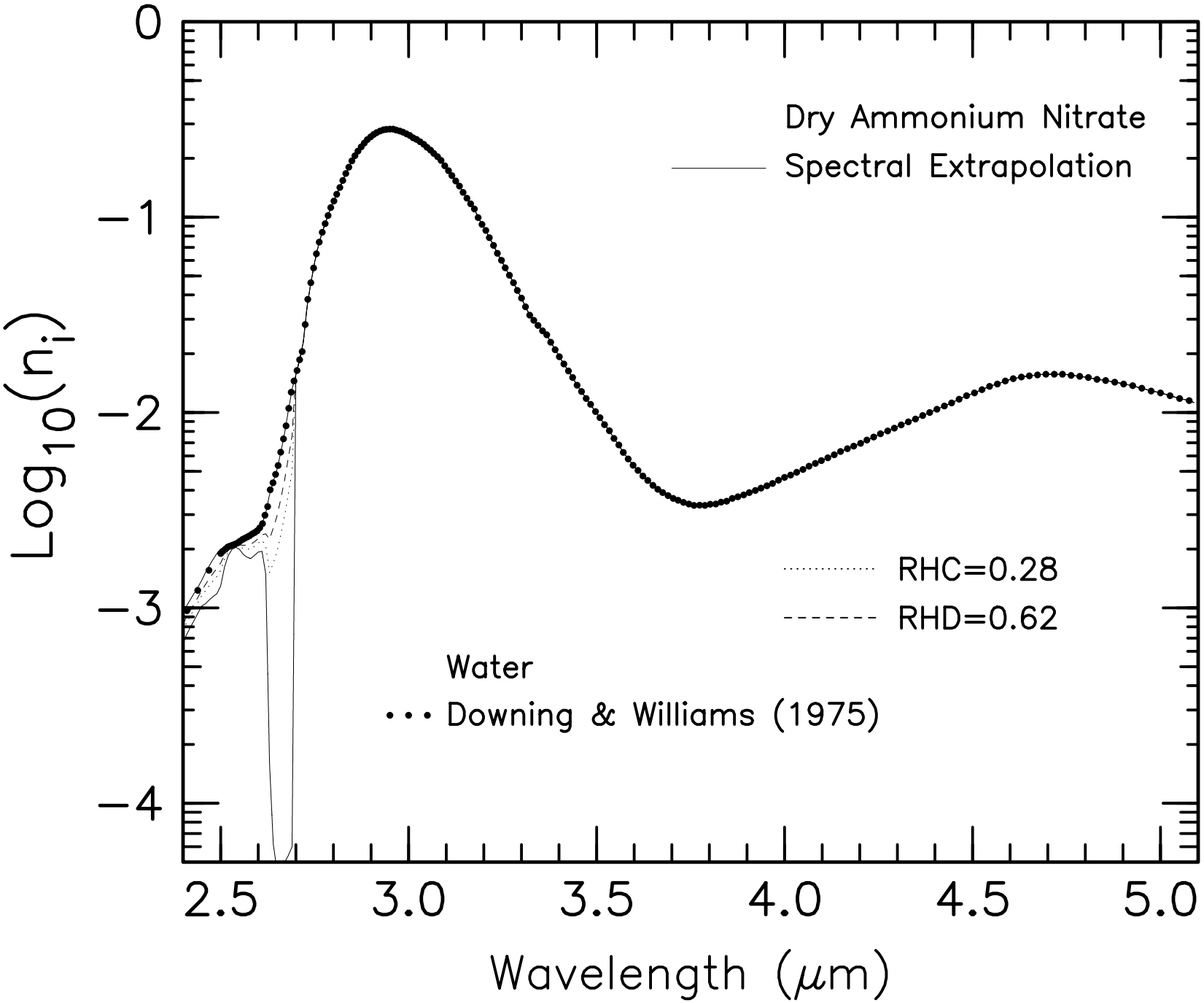
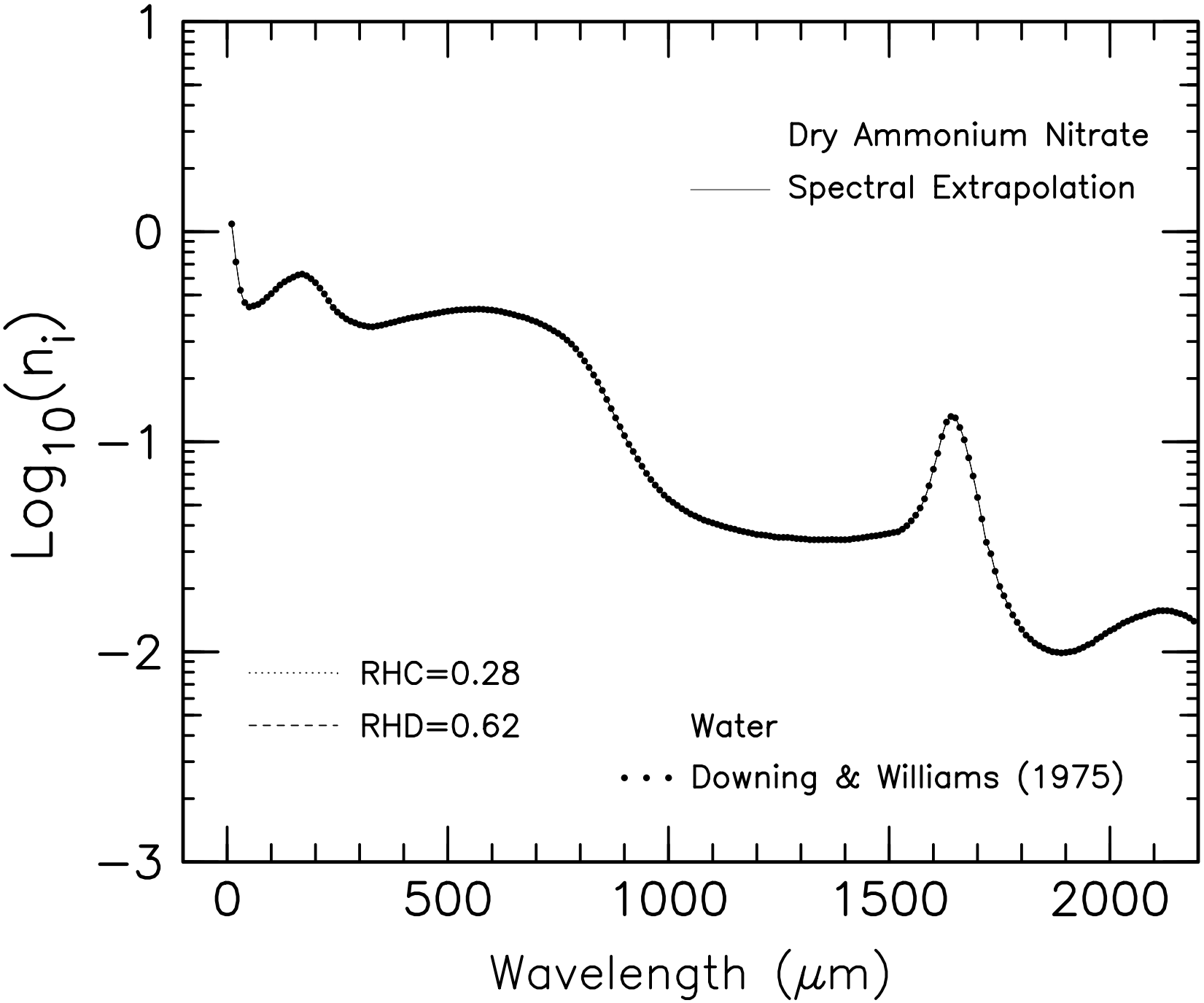

Dry Ammonium Nitrate
Spectral Extrapolation
Tang & Munkelwitz (1996)
RHC=0.28
RHD=0.62
Tang & Munkelwitz (1991)
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
n_r
1.6
1.5
1.4
1.3
1.2
0.0
0.5
1.0
1.5
2.0
2.5
Wavelength (μm)

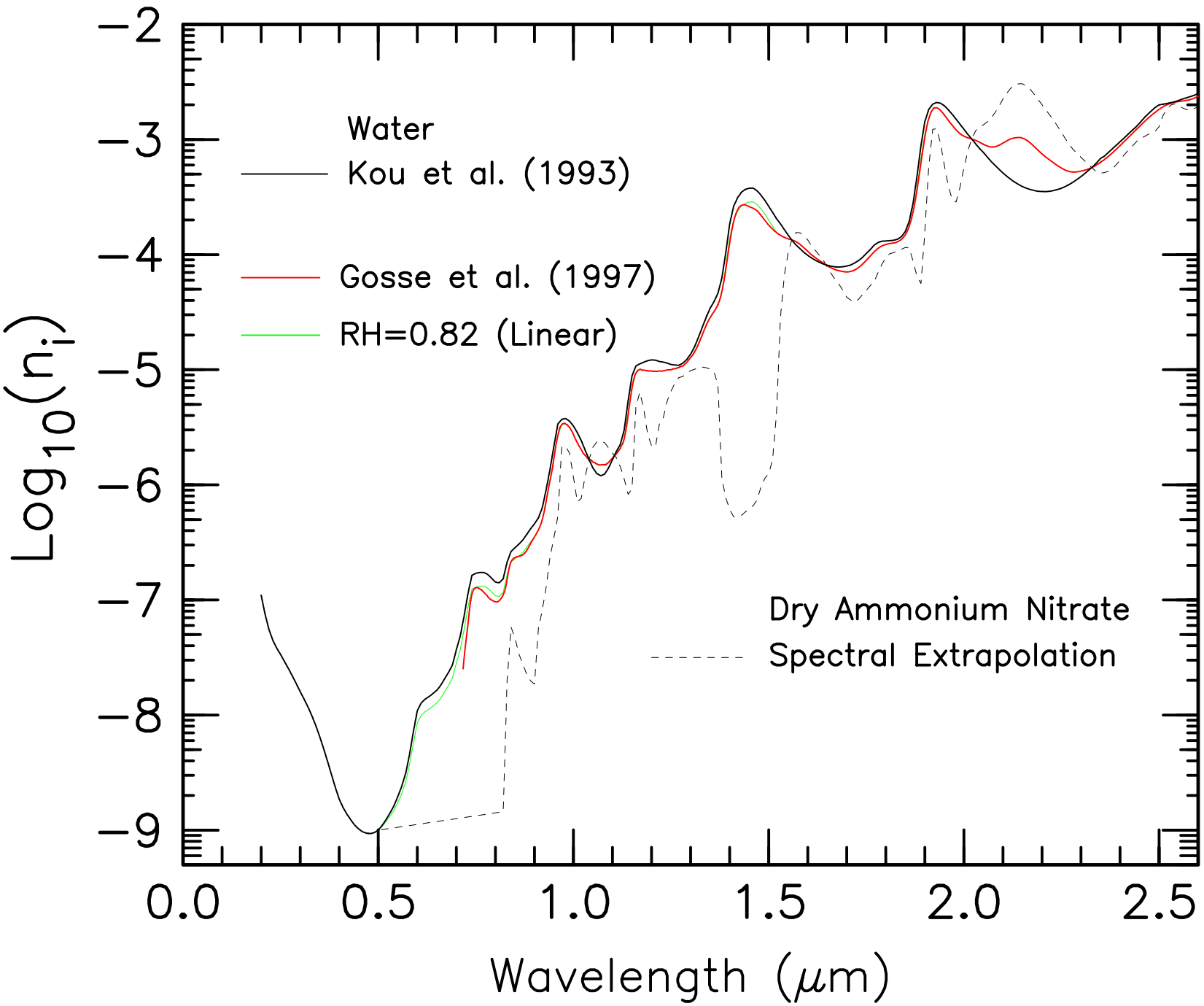

Dry Ammonium Nitrate
Spectral Extrapolation
RHC=0.28
RHD=0.62
Water
Downing & Williams (1975)
1.7
1.5
1.3
1.1
n_r
2.5
3.0
3.5
4.0
4.5
5.0
Wavelength (μm)

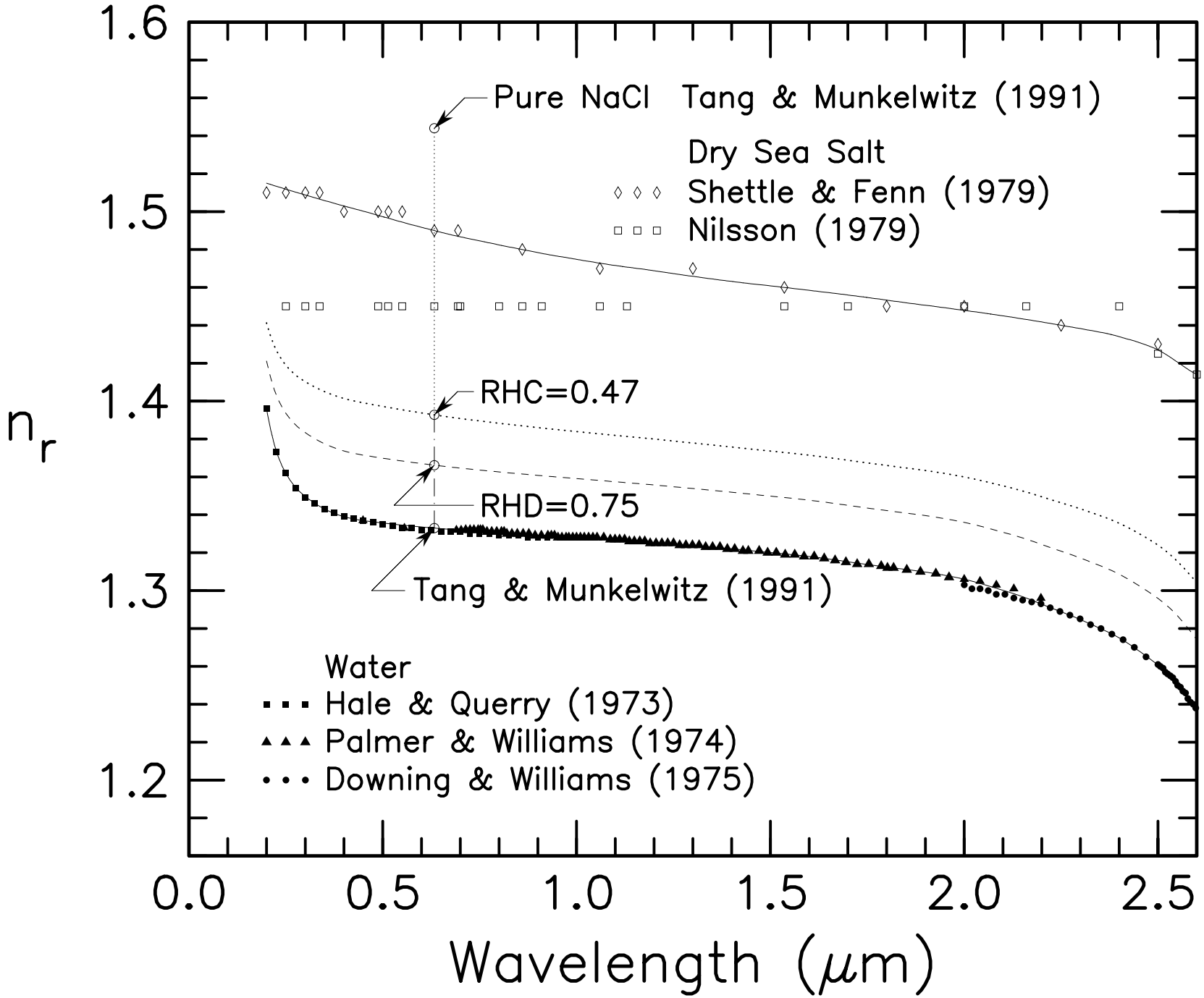

Dry Ammonium Nitrate
Spectral Extrapolation
RHC=0.28
RHD=0.62
Water
Downing & Williams (1975)
3.0
2.0
1.0
0.0
n_r
0
500
1000
1500
2000
Wavenumber (cm^{-1})

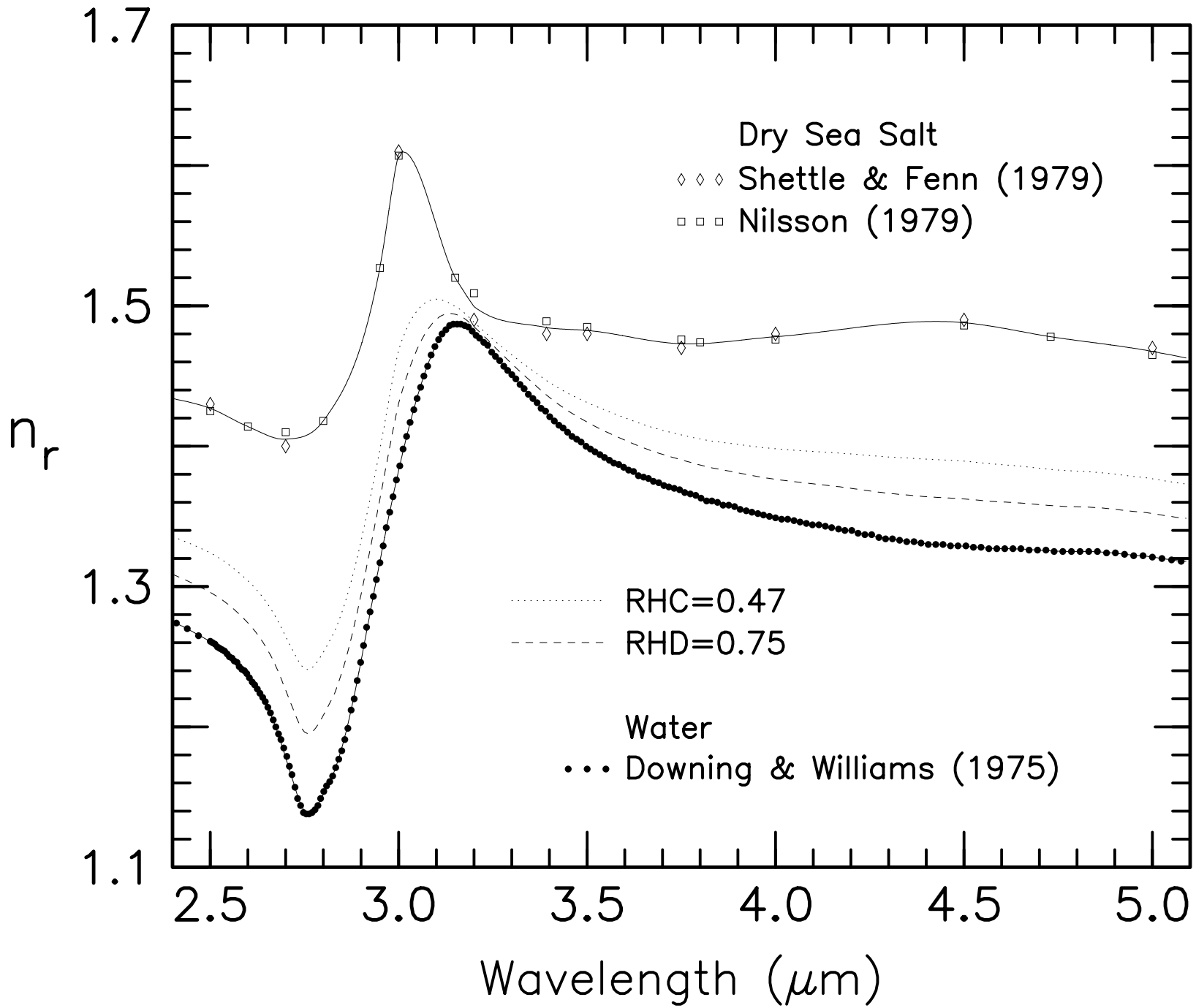

Dry Ammonium Nitrate
Spectral Extrapolation
RHC=0.28
RHD=0.62
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
Kou et al. (1993)
Log10(ni)
Wavelength (μm)
−1
−2
−3
−4
−5
−6
−7
−8
−9
0.0
0.5
1.0
1.5
2.0
2.5

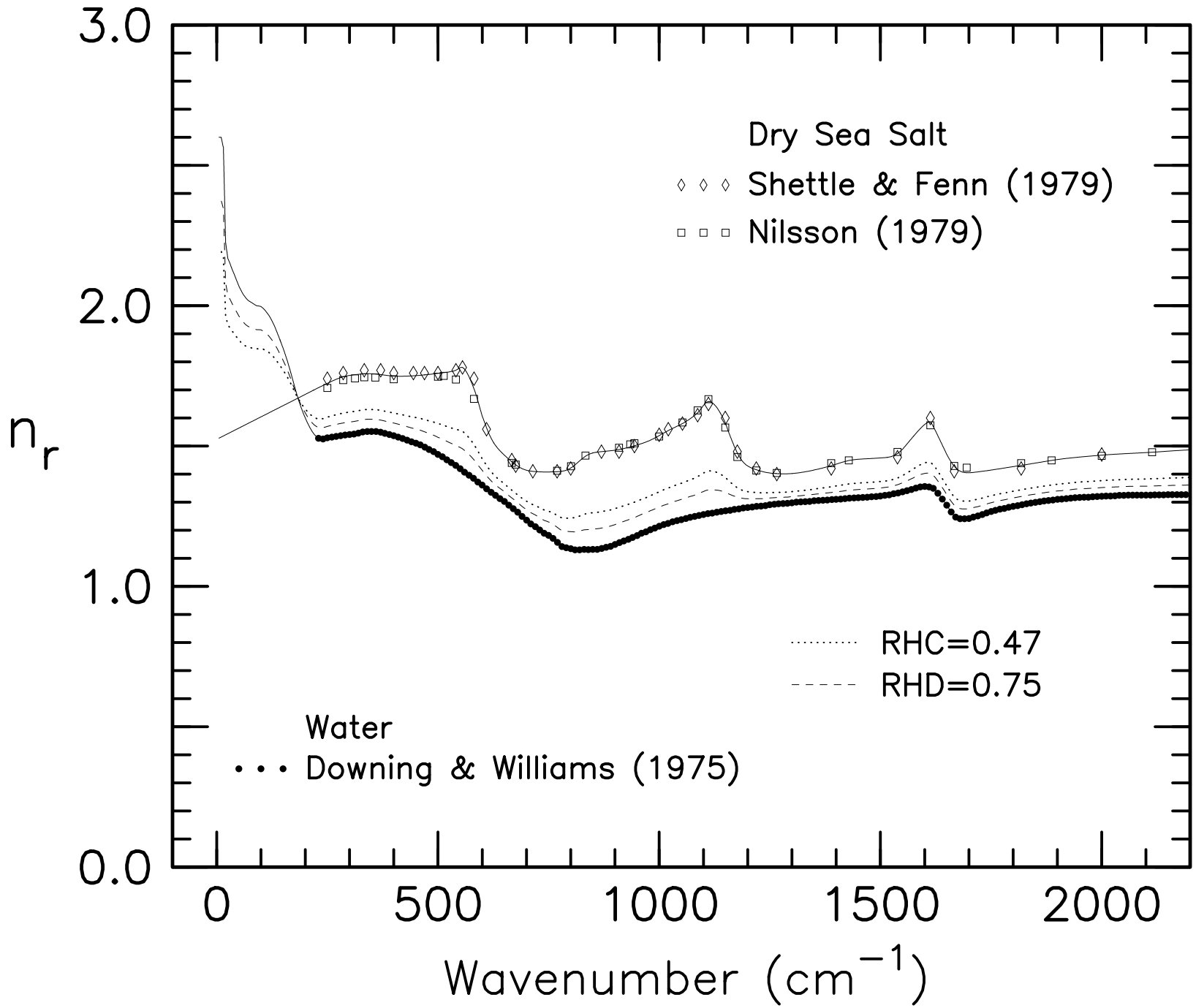

Dry Ammonium Nitrate
Spectral Extrapolation
RHC=0.28
RHD=0.62
Water
Downing & Williams (1975)
0
−1
−2
−3
−4
2.5
3.0
3.5
4.0
4.5
5.0
Log10(ni)
Wavelength (μm)

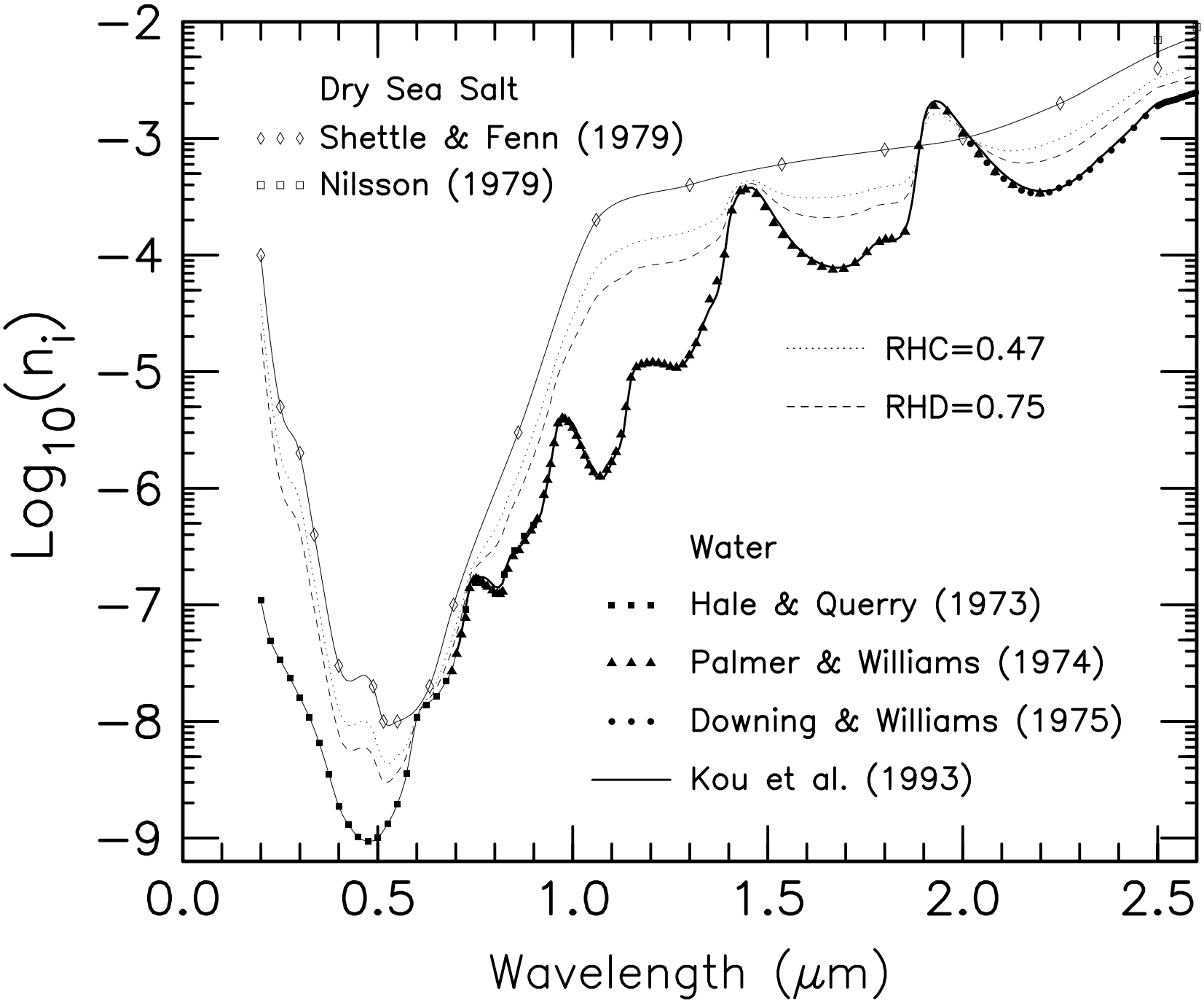

Dry Ammonium Nitrate
Spectral Extrapolation
RHC=0.28
RHD=0.62
Water
Downing & Williams (1975)
Log10(ni)
Wavelength (μm)
1
0
−1
−2
−3
0
500
1000
1500
2000

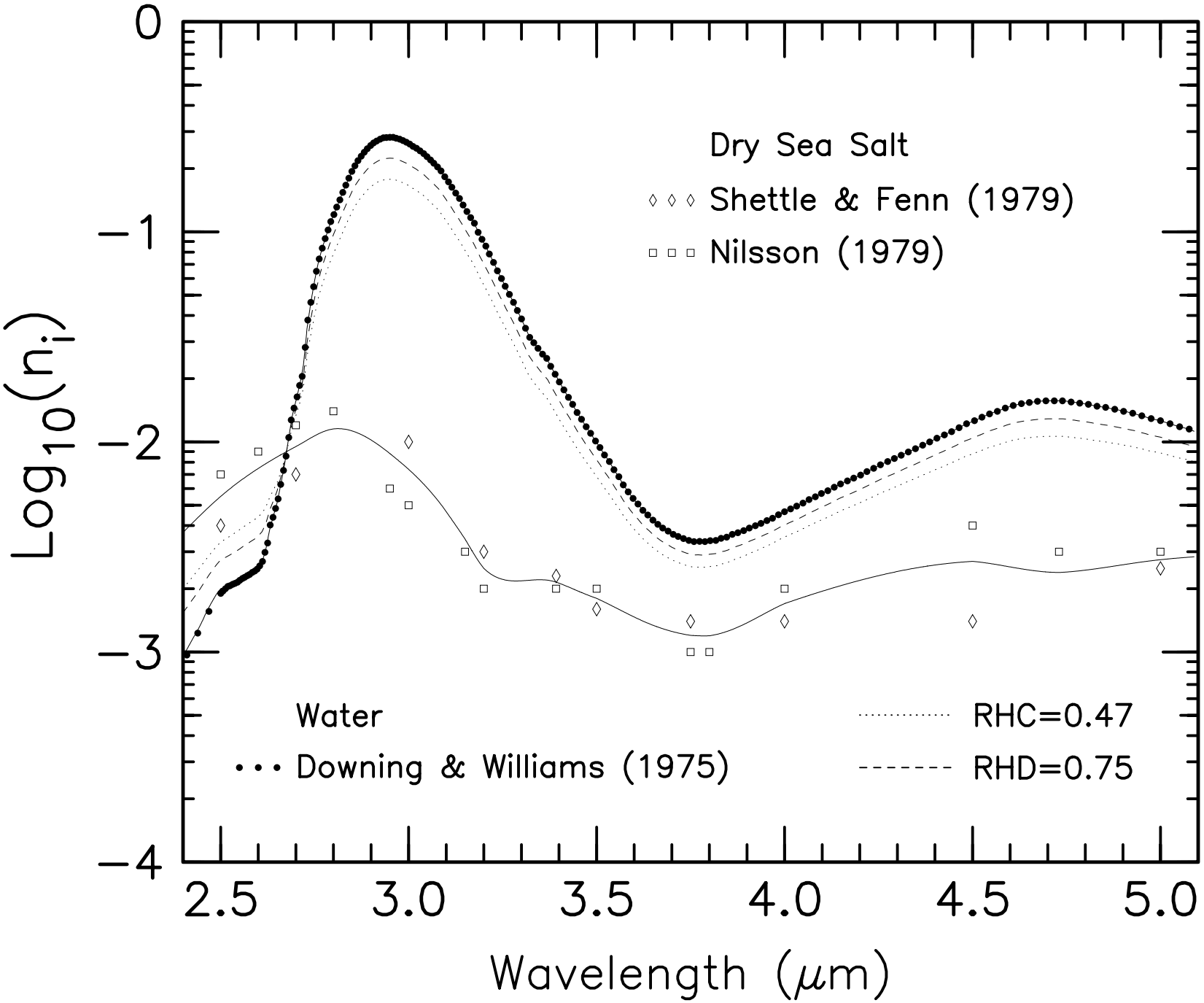

Water
Kou et al. (1993)
Gosse et al. (1997)
RH=0.82 (Linear)
Dry Ammonium Nitrate
Spectral Extrapolation
Log10(ni)
Wavelength (μm)
−2
−3
−4
−5
−6
−7
−8
−9
0.0
0.5
1.0
1.5
2.0
2.5

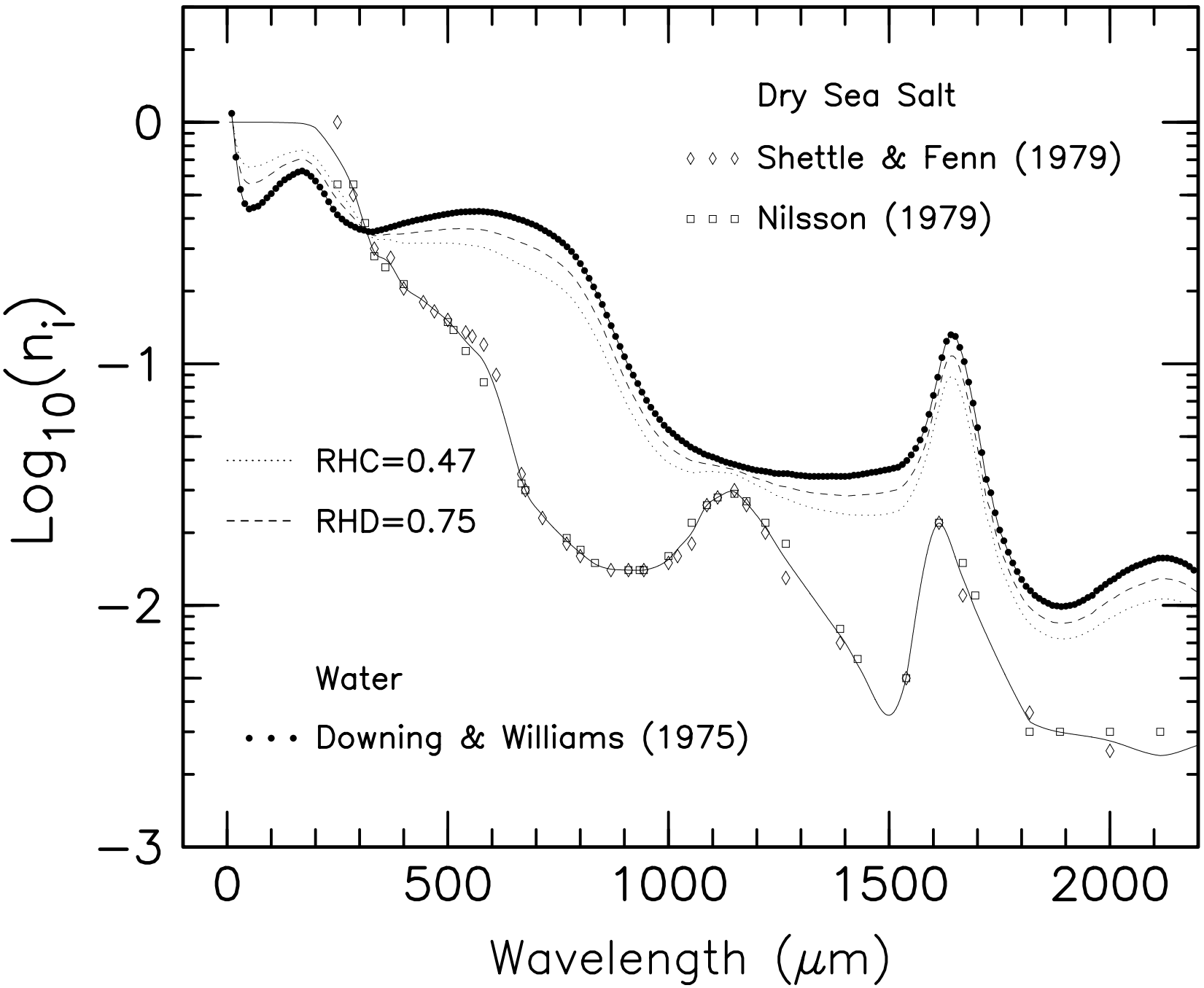

Pure NaCl Tang & Munkelwitz (1991)
Dry Sea Salt
Shettle & Fenn (1979)
Nilsson (1979)
RHC=0.47
RHD=0.75
Tang & Munkelwitz (1991)
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
n_r
1.6
1.5
1.4
1.3
1.2
0.0
0.5
1.0
1.5
2.0
2.5
Wavelength (μm)

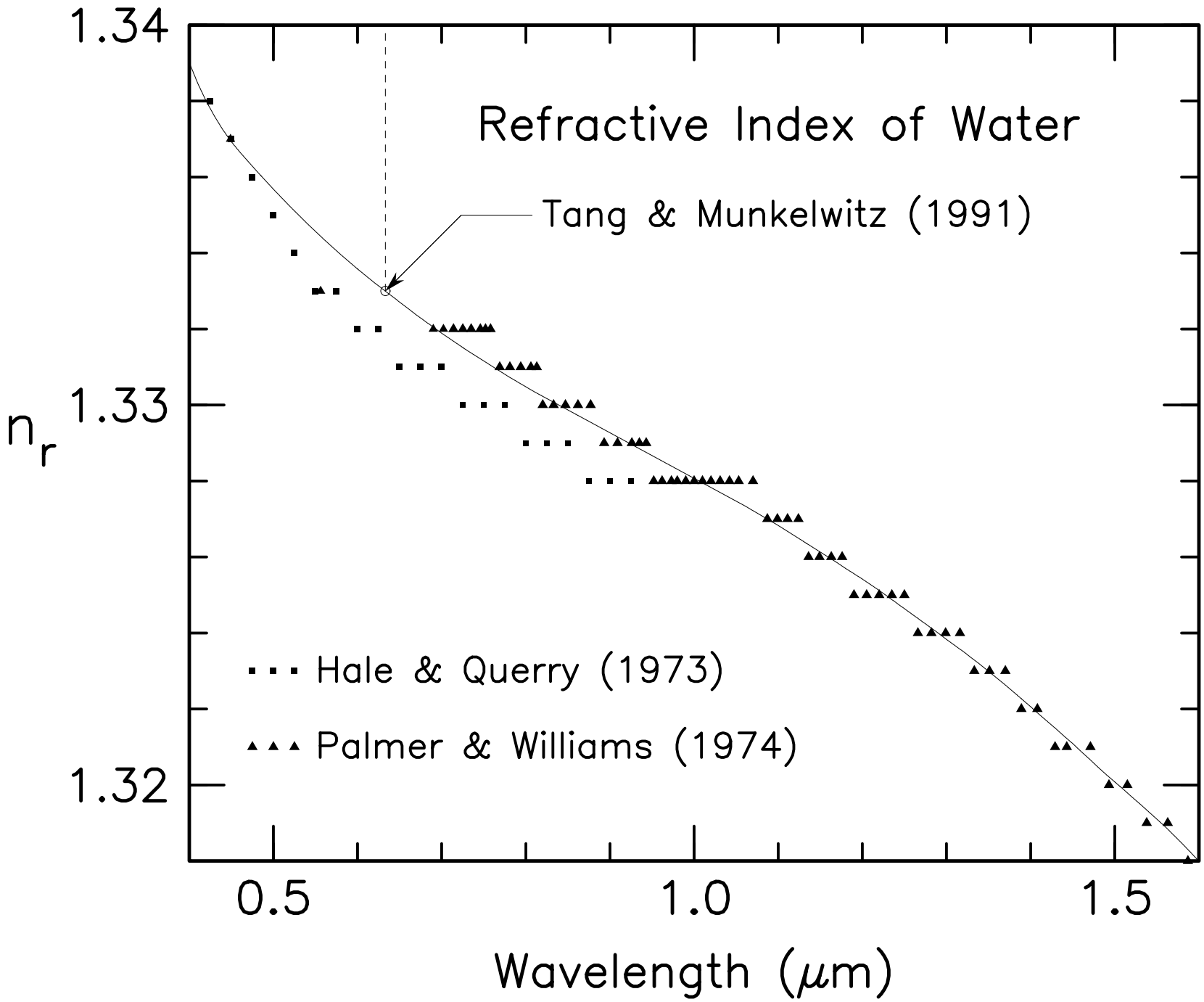

Dry Sea Salt
Shettle & Fenn (1979)
Nilsson (1979)
RHC=0.47
RHD=0.75
Water
Downing & Williams (1975)
1.7
1.5
1.3
1.1
n_r
2.5
3.0
3.5
4.0
4.5
5.0
Wavelength (μm)

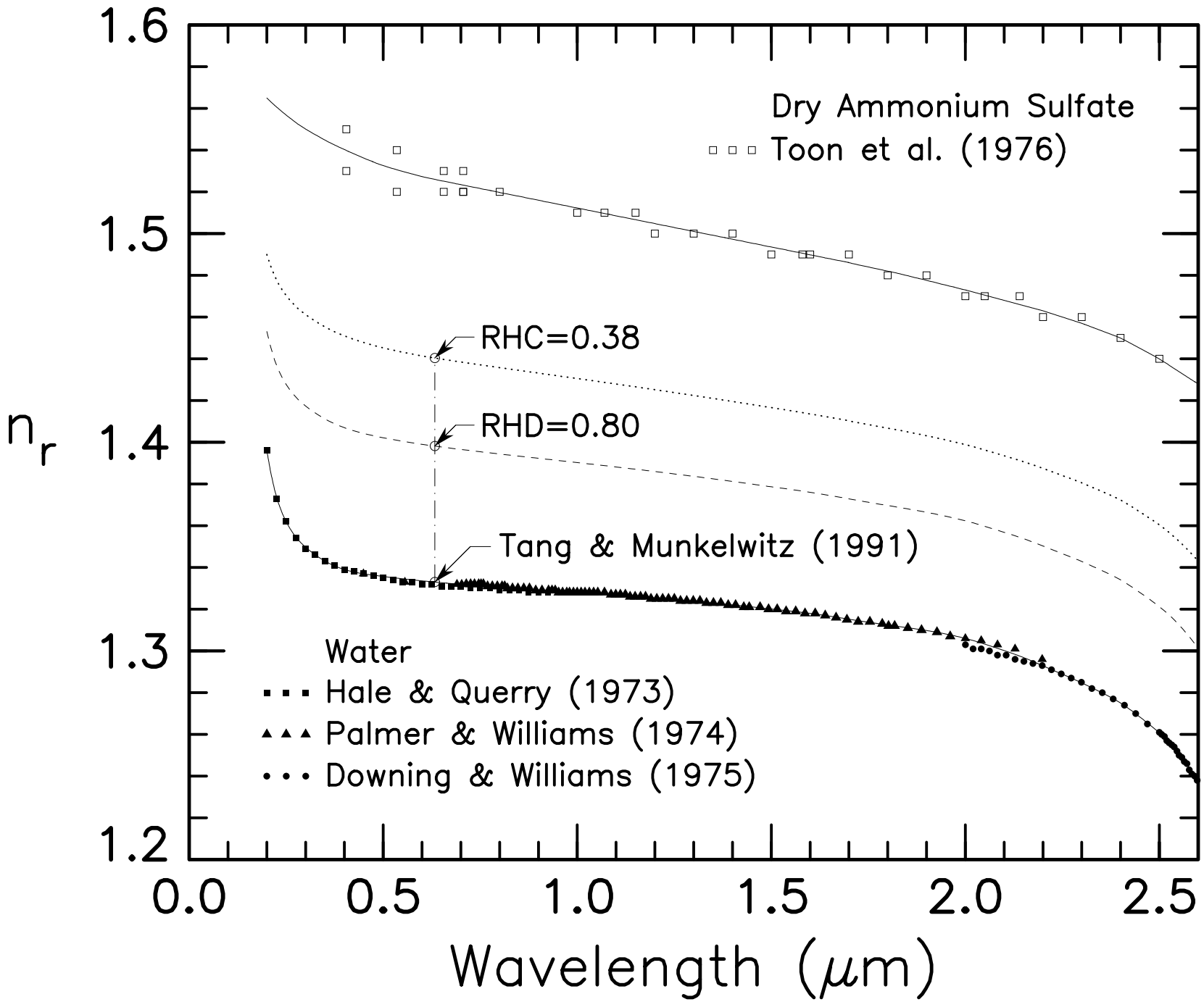

Dry Sea Salt
Shettle & Fenn (1979)
Nilsson (1979)
RHC=0.47
RHD=0.75
Water
Downing & Williams (1975)
3.0
2.0
1.0
0.0
n_r
0
500
1000
1500
2000
Wavenumber (cm^{-1})

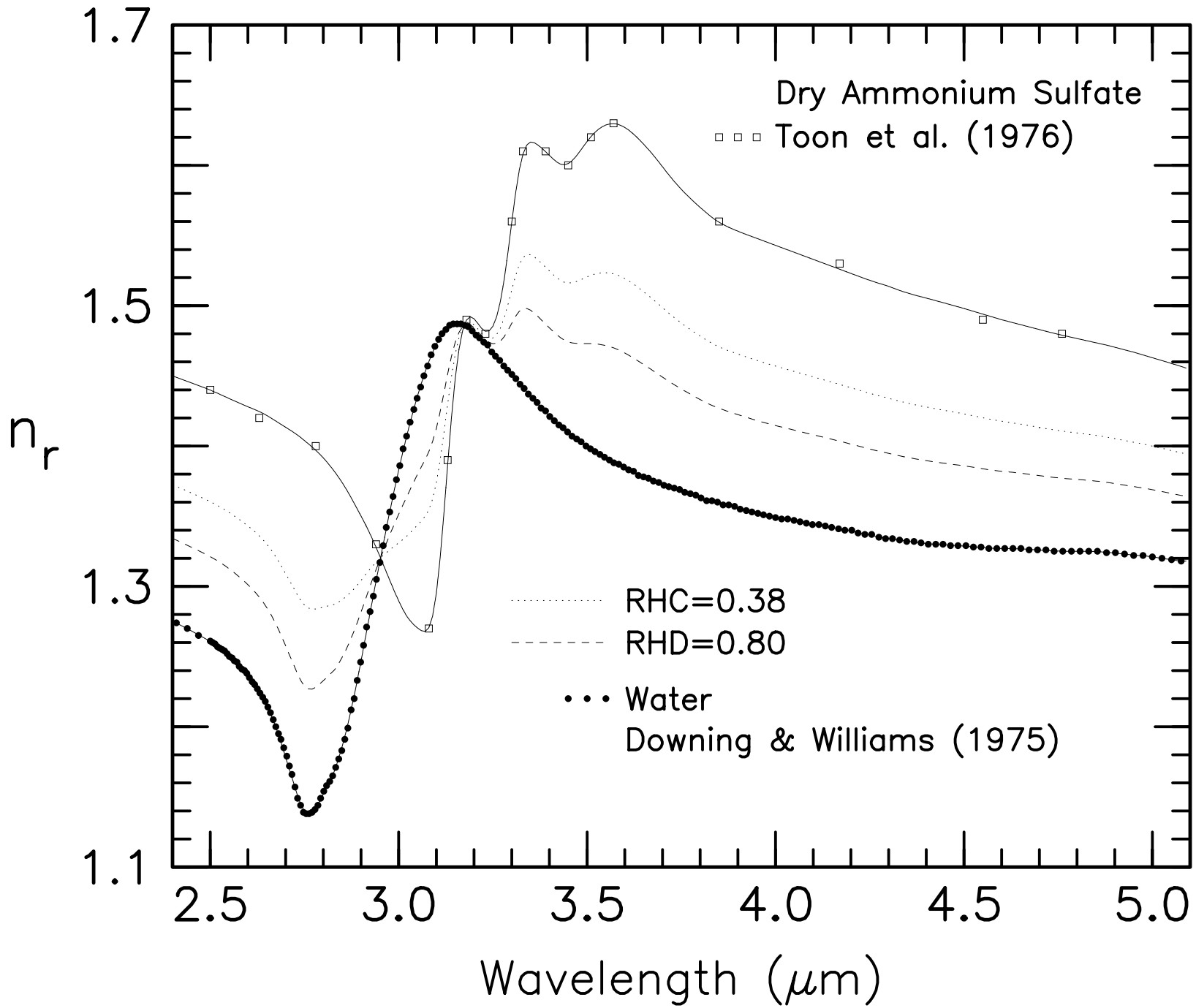

Dry Sea Salt
Shettle & Fenn (1979)
Nilsson (1979)
RHC=0.47
RHD=0.75
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
Kou et al. (1993)
−2
−3
−4
−5
−6
−7
−8
−9
0.0
0.5
1.0
1.5
2.0
2.5
Log10(ni)
Wavelength (μm)

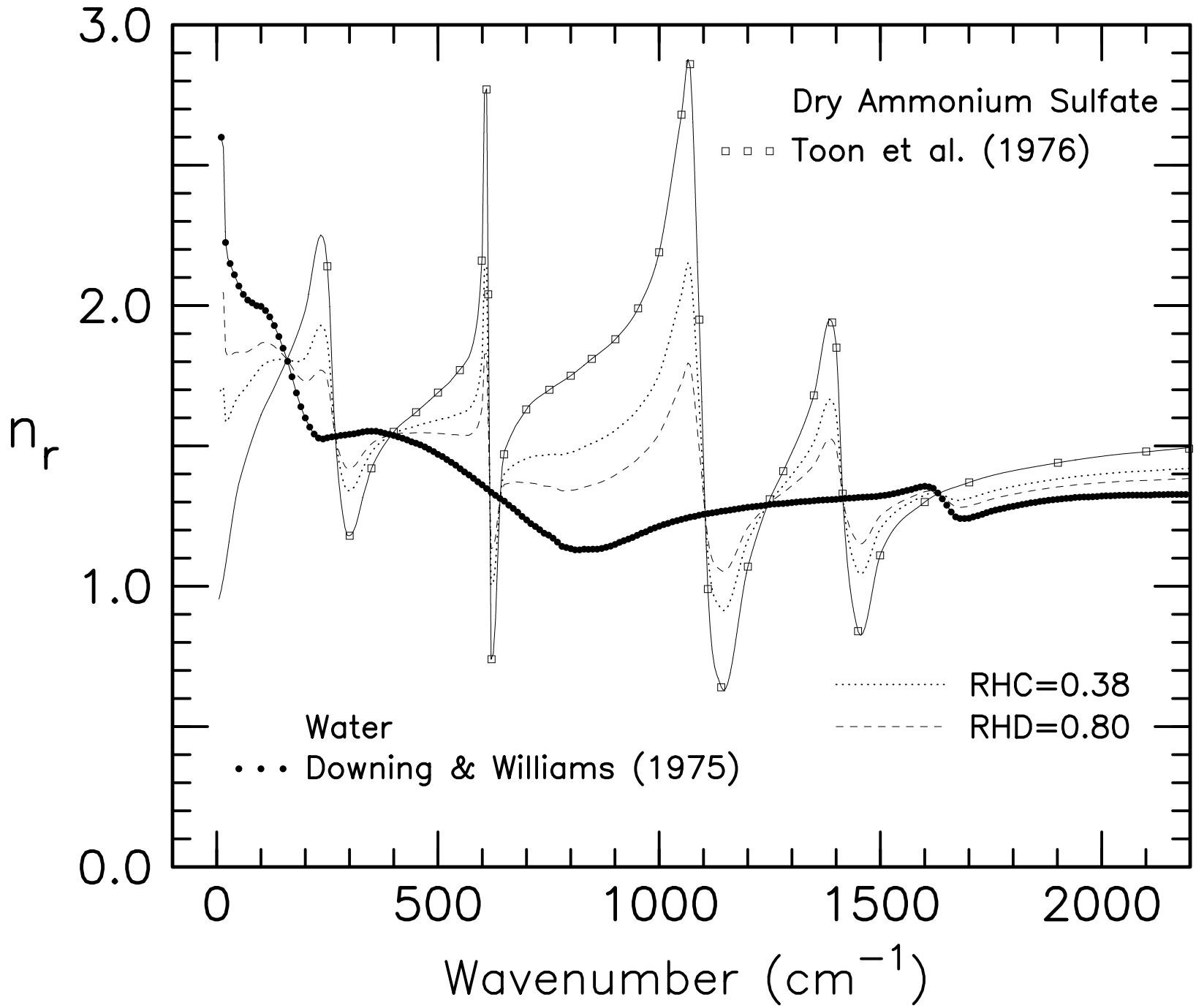

Dry Sea Salt
Shettle & Fenn (1979)
Nilsson (1979)
Water
Downing & Williams (1975)
RHC=0.47
RHD=0.75
0
−1
−2
−3
−4
2.5
3.0
3.5
4.0
4.5
5.0
Log10(ni)
Wavelength (μm)

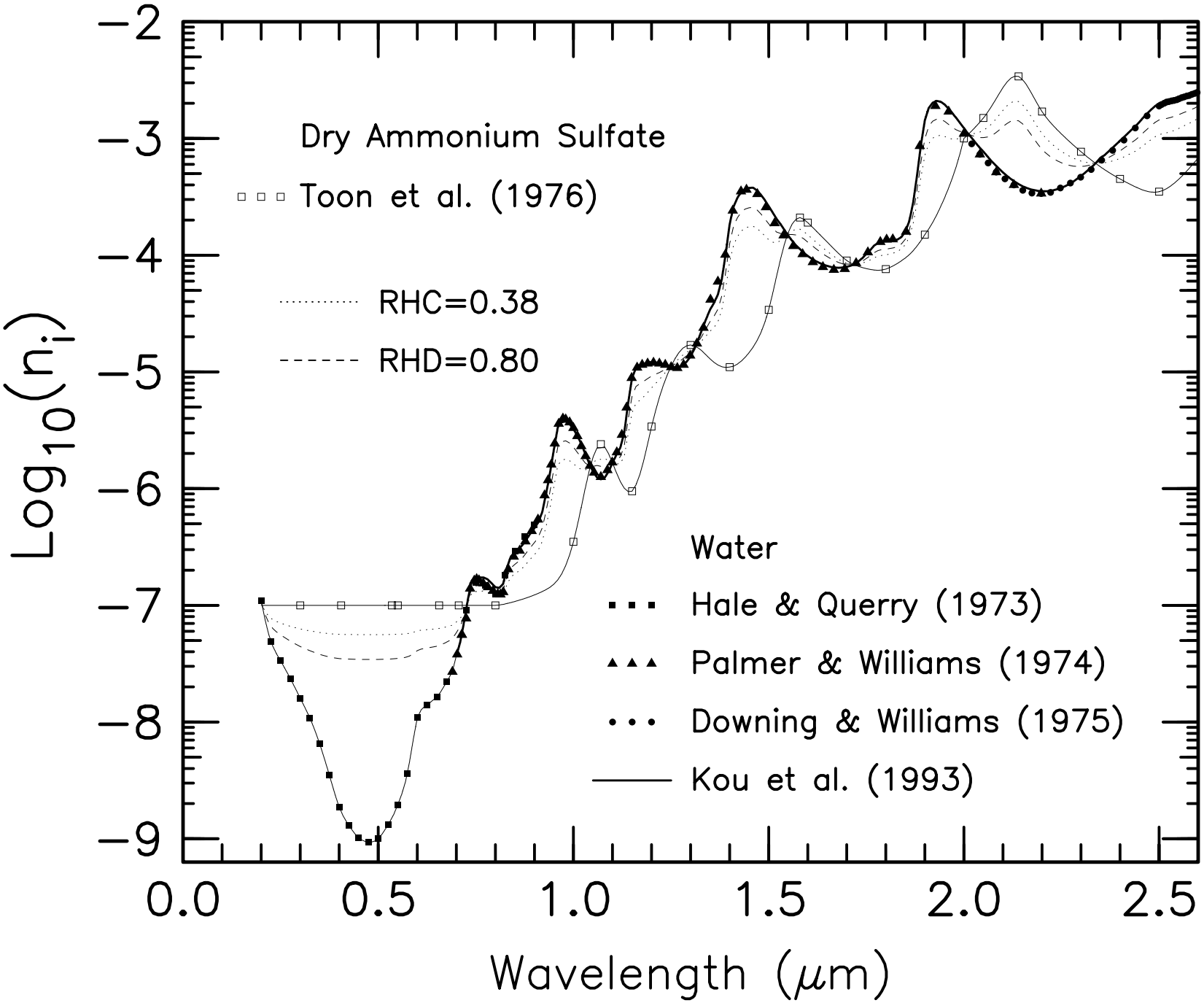

Dry Sea Salt
Shettle & Fenn (1979)
Nilsson (1979)
RHC=0.47
RHD=0.75
Water
Downing & Williams (1975)
0
−1
−2
−3
0
500
1000
1500
2000
Log10(ni)
Wavelength (μm)

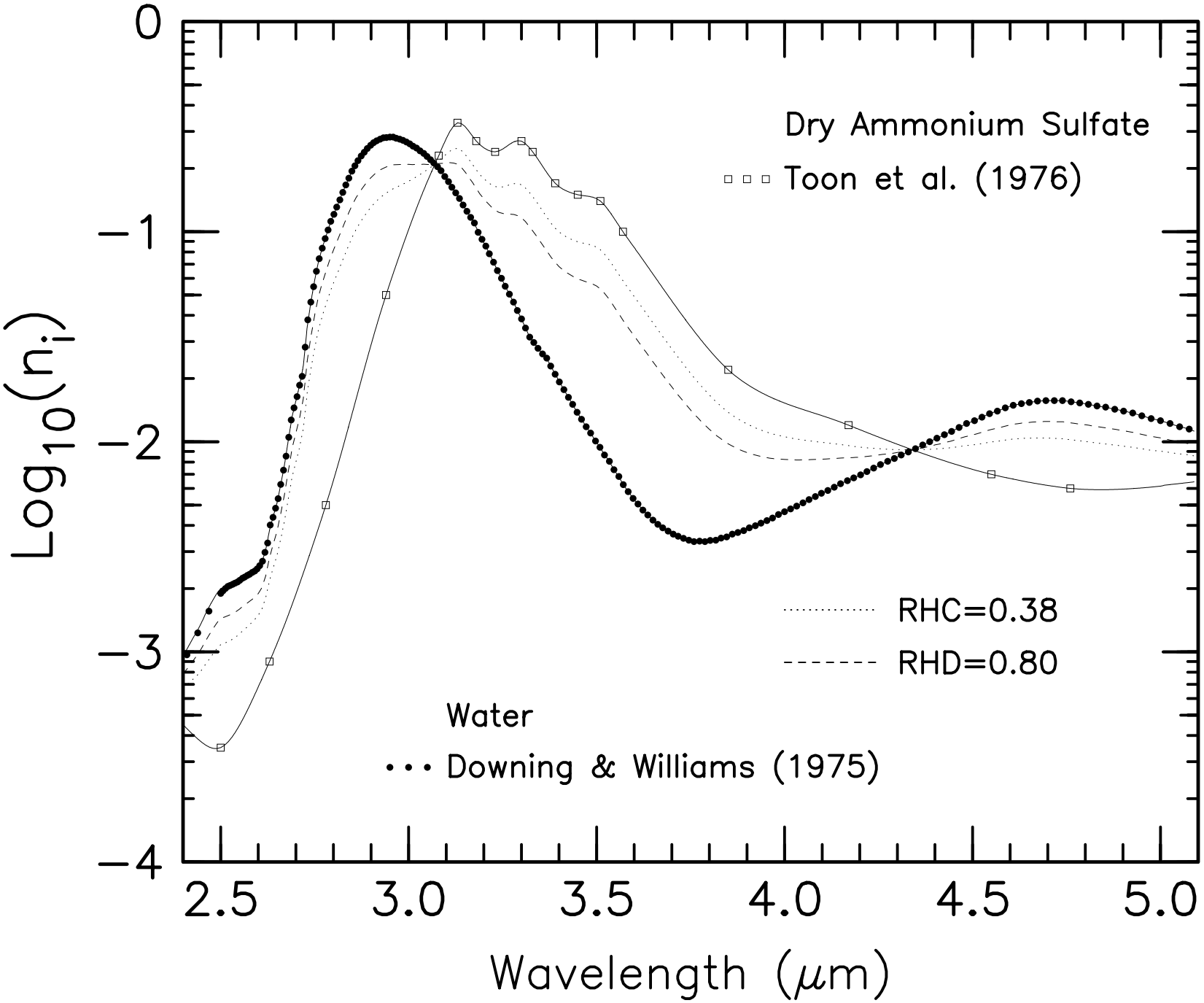

Refractive Index of Water
Tang & Munkelwitz (1991)
Hale & Querry (1973)
Palmer & Williams (1974)
1.34
1.33
1.32
n_r
0.5
1.0
1.5
Wavelength (μm)

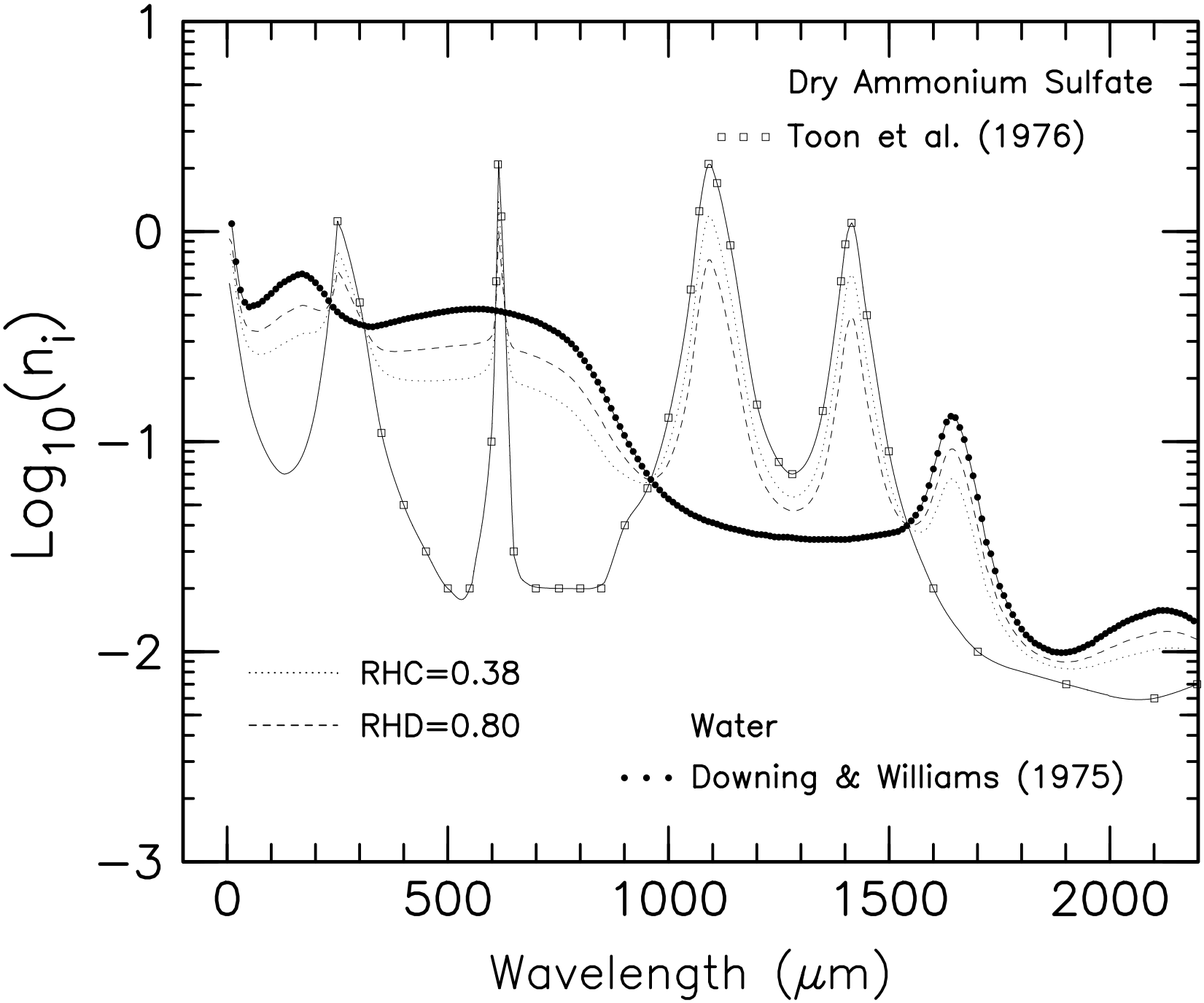

Dry Ammonium Sulfate
Toon et al. (1976)
RHC=0.38
RHD=0.80
Tang & Munkelwitz (1991)
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
n_r
1.6
1.5
1.4
1.3
1.2
0.0
0.5
1.0
1.5
2.0
2.5
Wavelength (μm)

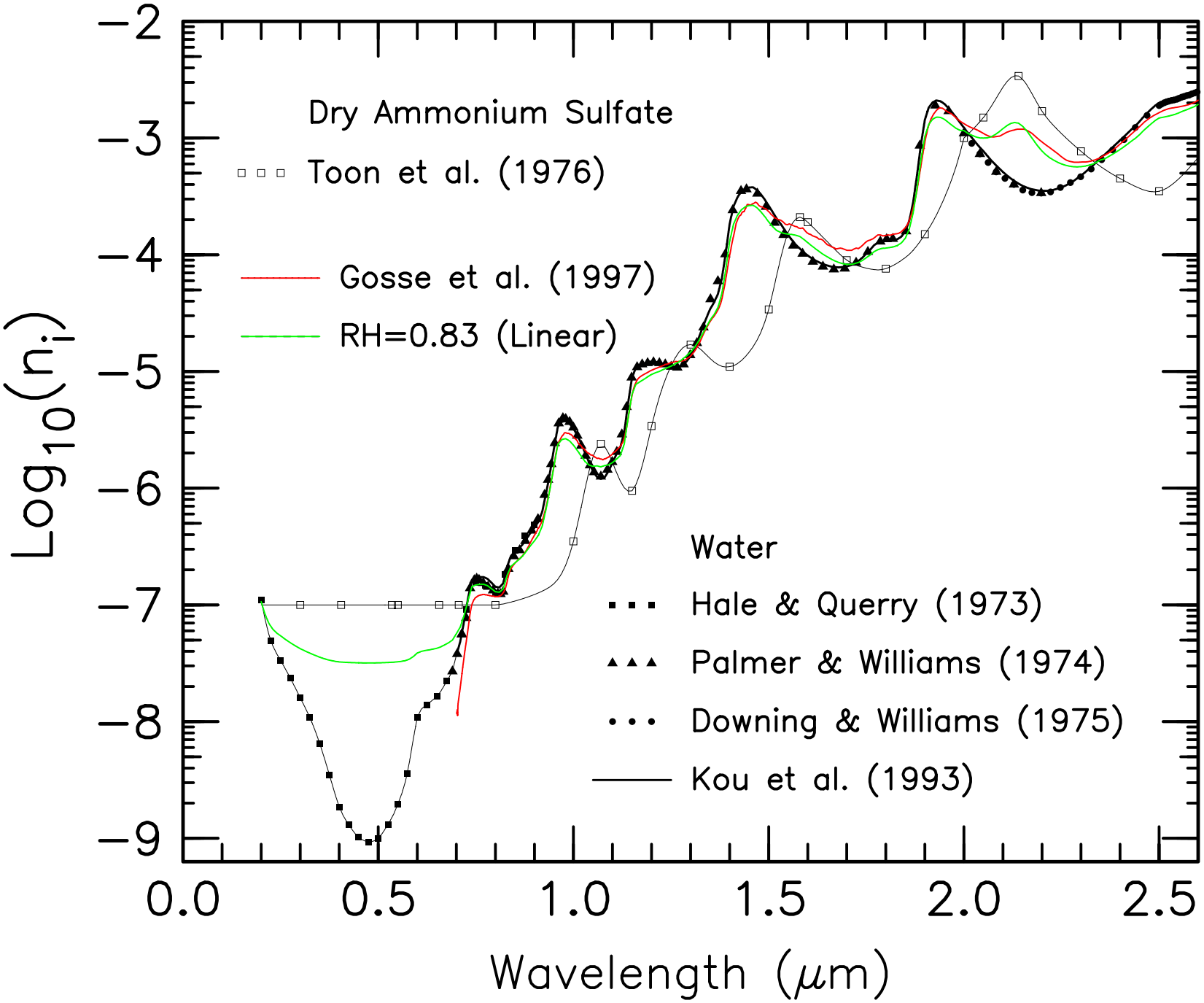

Dry Ammonium Sulfate
Toon et al. (1976)
RHC=0.38
RHD=0.80
Water
Downing & Williams (1975)
1.7
1.5
1.3
1.1
n_r
2.5
3.0
3.5
4.0
4.5
5.0
Wavelength (μm)


Dry Ammonium Sulfate
Toon et al. (1976)
RHC=0.38
RHD=0.80
Water
Downing & Williams (1975)
3.0
2.0
1.0
0.0
n_r
0
500
1000
1500
2000
Wavenumber (cm^{-1})


Dry Ammonium Sulfate
Toon et al. (1976)
RHC=0.38
RHD=0.80
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
Kou et al. (1993)
Log10(ni)
Wavelength (μm)
−2
−3
−4
−5
−6
−7
−8
−9
0.0
0.5
1.0
1.5
2.0
2.5


Dry Ammonium Sulfate
Toon et al. (1976)
RHC=0.38
RHD=0.80
Water
Downing & Williams (1975)
0
−1
−2
−3
−4
2.5
3.0
3.5
4.0
4.5
5.0
Log10(ni)
Wavelength (μm)


Dry Ammonium Sulfate
Toon et al. (1976)
RHC=0.38
RHD=0.80
Water
Downing & Williams (1975)
Log10(ni)
Wavelength (μm)
1
0
−1
−2
−3
0
500
1000
1500
2000


Dry Ammonium Sulfate
Toon et al. (1976)
Gosse et al. (1997)
RH=0.83 (Linear)
Water
Hale & Querry (1973)
Palmer & Williams (1974)
Downing & Williams (1975)
Kou et al. (1993)
Log10(ni)
Wavelength (μm)
−2
−3
−4
−5
−6
−7
−8
−9
0.0
0.5
1.0
1.5
2.0
2.5