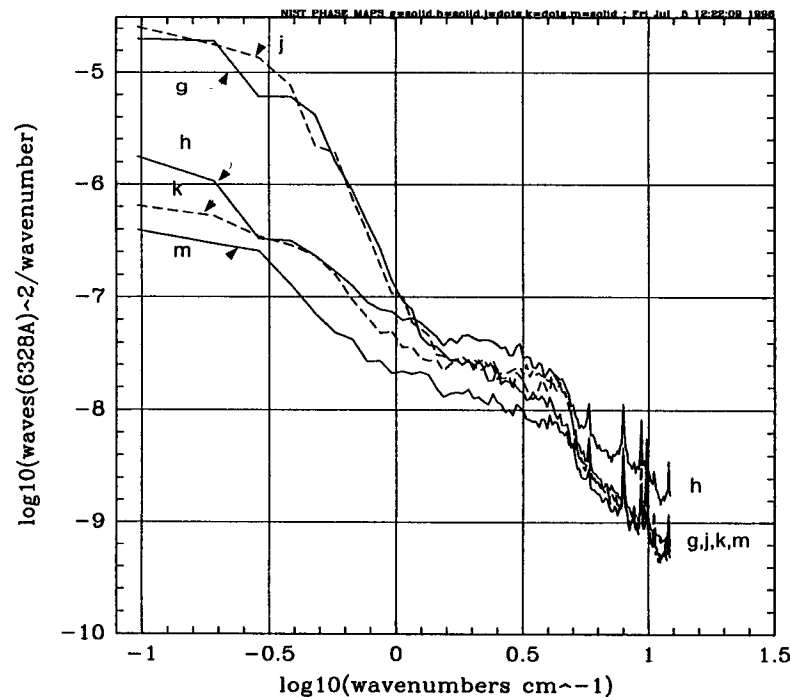


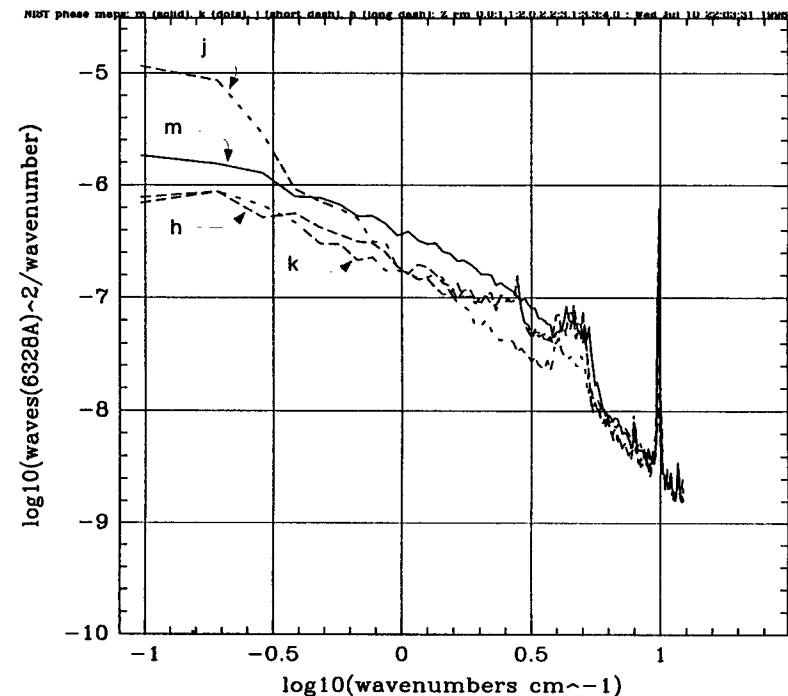
# Core Optics Procurement



One dimensional power spectra from NIST metrology of curved surfaces. Z(0,0),Z(1,1) Z(2,0),Z(2,2),Z(3,1),Z(3,3),Z(4,0) removed

g HDOS 001  
h CSIRO 002  
j HDOS 004  
k CSIRO 006  
m G O

Figure 1: Comparison of Curved surfaces as measured at NIST.

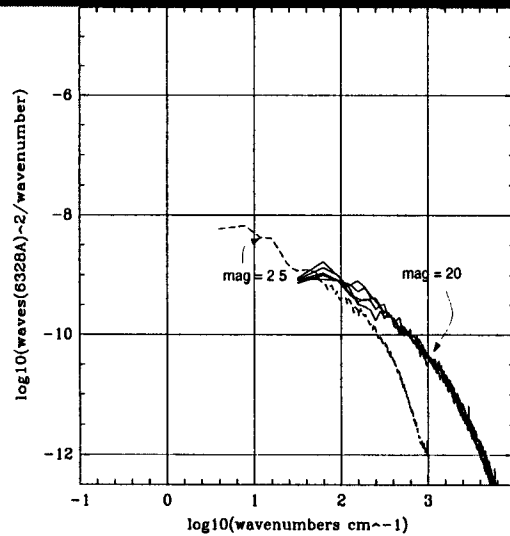


All spectra derived from phase maps with Z(0,0),Z(1,1),Z(2,0),Z(2,2),Z(3,1) Z(3,3),Z(4,0) removed

h = long dash = CSIRO surface 2 #2  
j = short dash = HDOS serial04 side 2  
k = dots = CSIRO surface 2 #6  
m = solid = GO

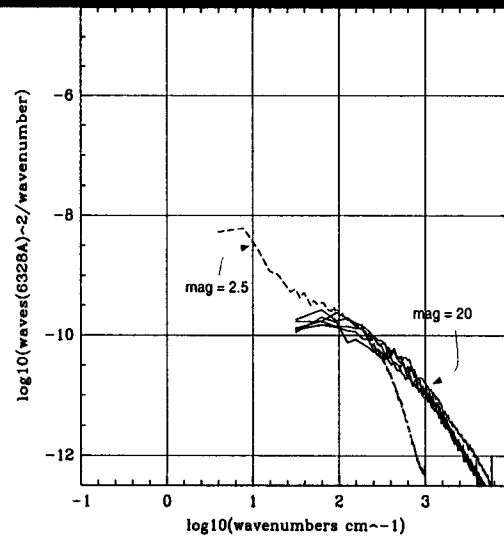
Figure 2: Comparison of Flat surfaces as measured at NIST

# Core Optics Procurement



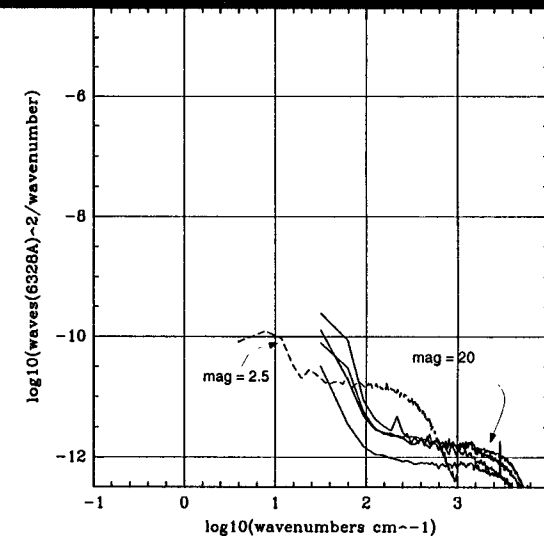
FILES:  
111,112,113,114,115,116  
sn1 surface 1 HDOS NIST G 3A rms

Figure 3: REO measurement of HDOS microroughness



FILES:  
211,212,213,214,215,216  
sn2 surface 2 CSIRO NIST H 3A rms

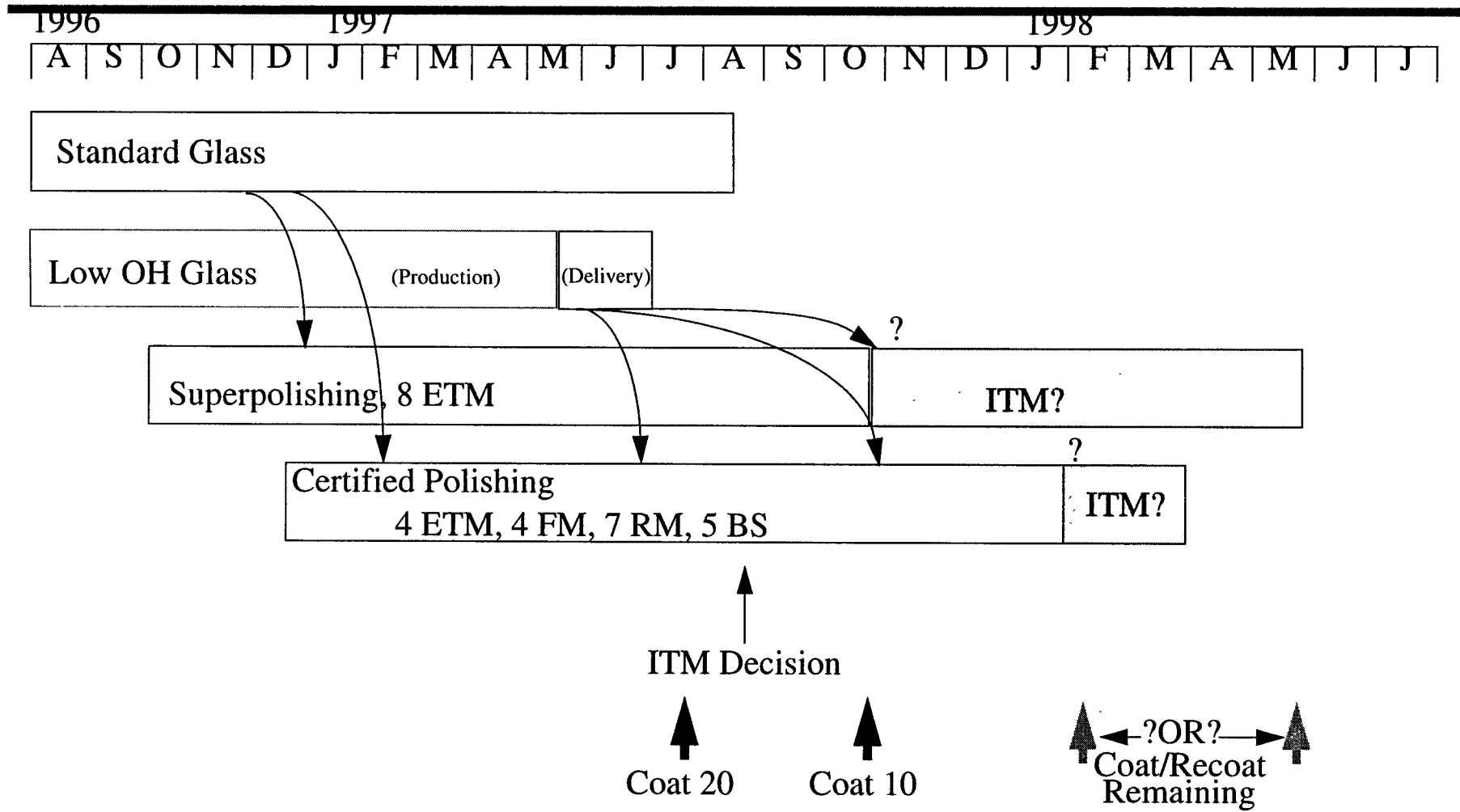
Figure 4: REO measurement of CSIRO microroughness



FILES:  
521,522,523,524,525,526  
sn5 surface 2 NIST M  
1 2 to 0 7 A rms

Figure 5: REO measurement of GO microroughness

# Core Optics Procurement



# Core Optics Procurement

|                     | Req'd<br>in IFO | Spares on<br>hand at<br>instalation | Glass<br>Type | Super-<br>polishing | Certified<br>Polishing |
|---------------------|-----------------|-------------------------------------|---------------|---------------------|------------------------|
| End Test Mass       | 6               | 6                                   | 0A            | 8                   | 4                      |
| Folding Mirror      | 2               | 2                                   |               |                     | 4                      |
| Recycling mirror-4K | 2               | 2                                   | 0AA           |                     | 4                      |
| Recycling mirror-2K | 1               | 2                                   |               |                     | 3                      |
| Input Test Mass-4K  | 4               | 4                                   | LOH           | 5                   | 3                      |
| Input Test Mass-2K  | 2               | 2                                   |               | 2                   | 2                      |
| Beam Splitter       | 3               | 2                                   |               |                     | 5                      |