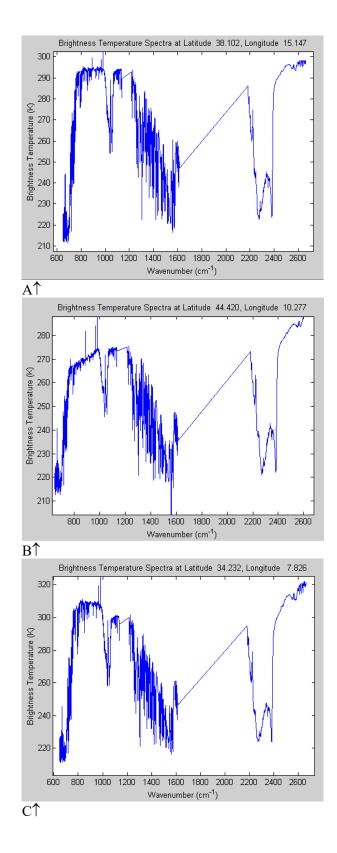
Maratea Remote Sensing Seminar Menzel / Revercomb / Antonelli 22 – 31 May 2003 Quiz 2 (15 minutes)

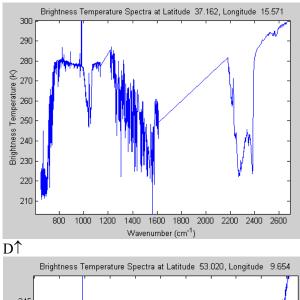
Name:\_\_\_\_\_

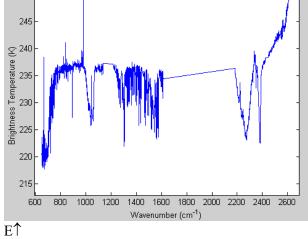
1. Let  $\tau(z1, z2)$  be the transmittance of radiation from atmospheric height z1 to z2. Express  $\tau(z, 0)$ , the transmittance of downwelling radiation from height z down to the earth surface, in terms of  $\tau(z, \infty)$ , the transmittance of upwelling radiation from height z to the satellite sensor at  $\infty$ , and  $\tau(0, \infty)$ , the total atmospheric transmittance.

2. Associate the cloud test on the left with the appropriate descripter on the right.

[]	r1.38 > threshold	(a) indicates high clouds in the tropics
[]	r.87/r.66 between .9 and 1.1	(b) assures clear skies for temperature inversions
[]	BT3.9-BT11 > 3 C	(c) find high thin cirrus
[]	BT11 < BT6.7	(d) indicates clouds in vegetated areas
[]	BT11 – BT12 < 2	(e) tests for broken clouds







- 3. Identify the spectra with the scene
- [ ] ash plume
- [ ] ice cloud
- [ ] barren land
- [] thick cloud
- [] ocean