

## Slide images from the **Walter Munk Papers. SMC 17. Special Collections & Archives, UC San Diego.**

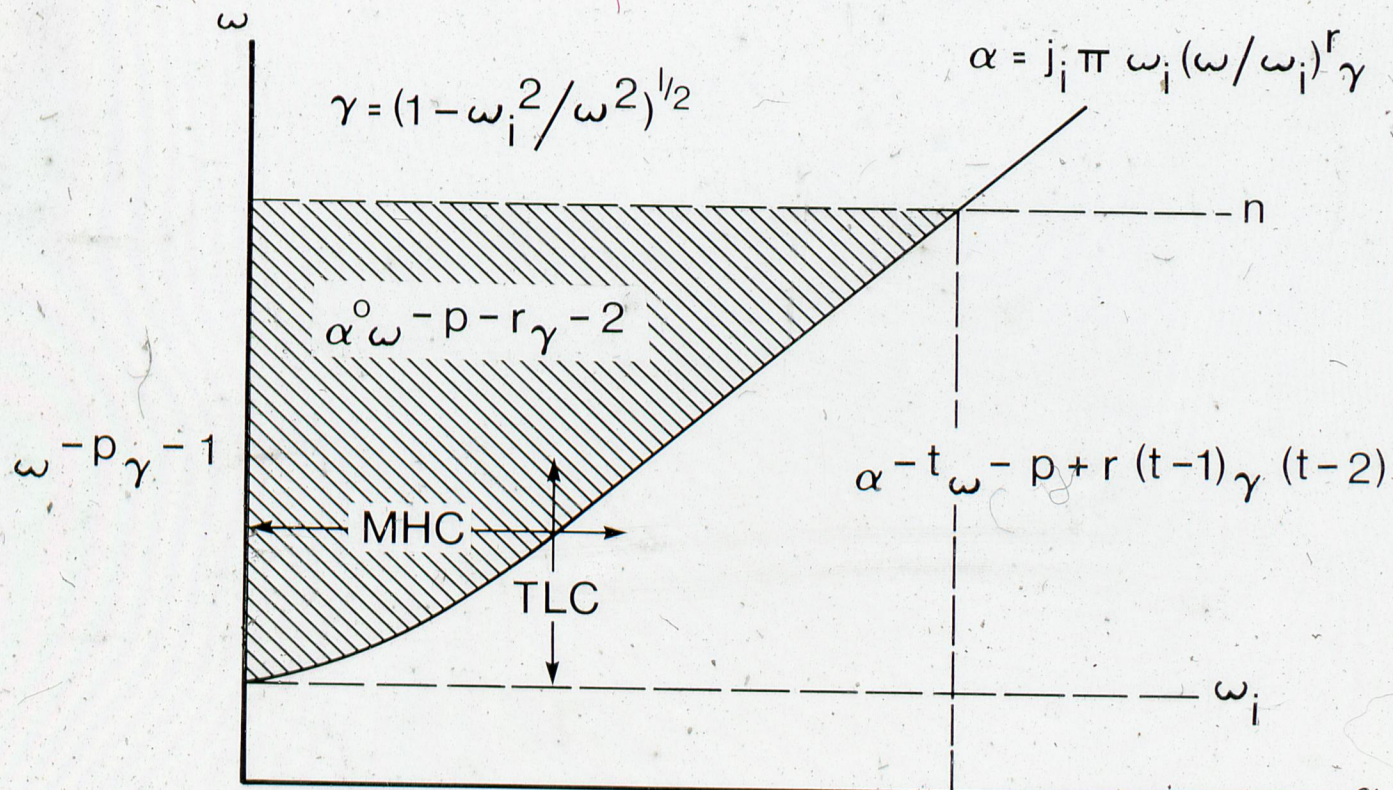
Slide groupings were determined by the original order of Walter Munk's slide collection, and a corresponding inventory. Titles and descriptions were transcribed from Munk's labels and the inventory, with some editing for consistency and clarity.

### **Garrett and Munk paper, ca. 1972-1974**

1. Paper number one - Graph (by Munk)
2. Katz spectra, solid curve - Garret and Munk spectrum graph, 1972
3. Towed lagged Coherence - Graph
4. Graph
5. Three-dimensional graphic representations
6. Spectra by Millard, with Brown CTD - Graph
7. Graph
8. Dropped horizontal coherence - Graph
9. Towed vertical coherence - Graph
10. Top-hat equations
11. Dropped lagged coherence - Graph
12. Cairns letter displacement - Graph, 1973 June 11-12

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$$\gamma = (1 - \omega_i^2 / \omega^2)^{1/2}$$

$$\alpha = j_i \pi \omega_i (\omega / \omega_i)^r \gamma$$

$$\alpha^0 \omega^{-p-r} \gamma^{-2}$$

$$\omega^{-p} \gamma^{-1}$$

MHC

TLC

$$\alpha^{-t} \omega^{-p+r(t-1)} \gamma^{(t-2)}$$

$\omega_i$

$\alpha$

$$\alpha_1^{-q}$$

$$\alpha_1^{-t}$$

$$q = (p+r-1)/r$$

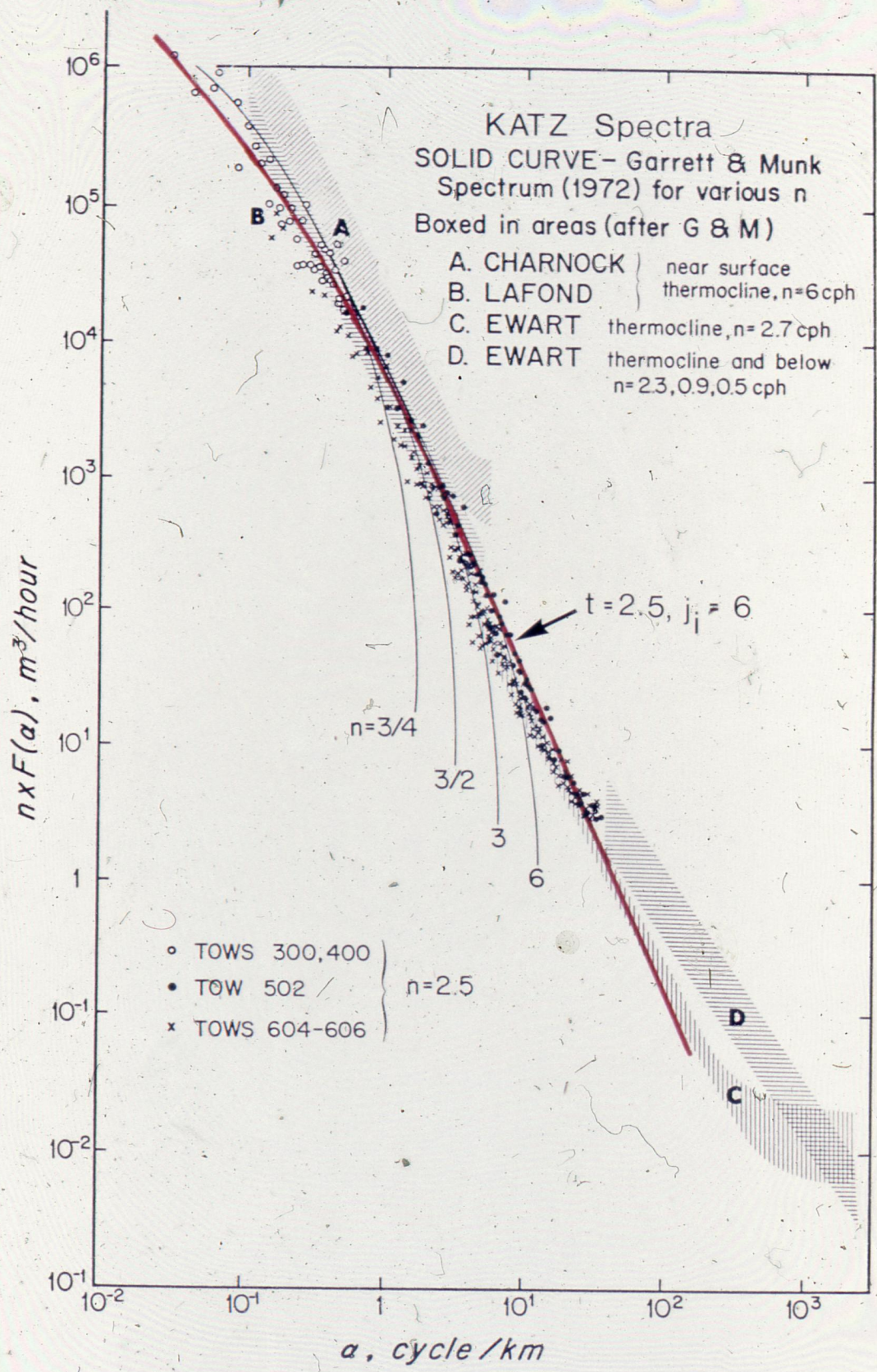
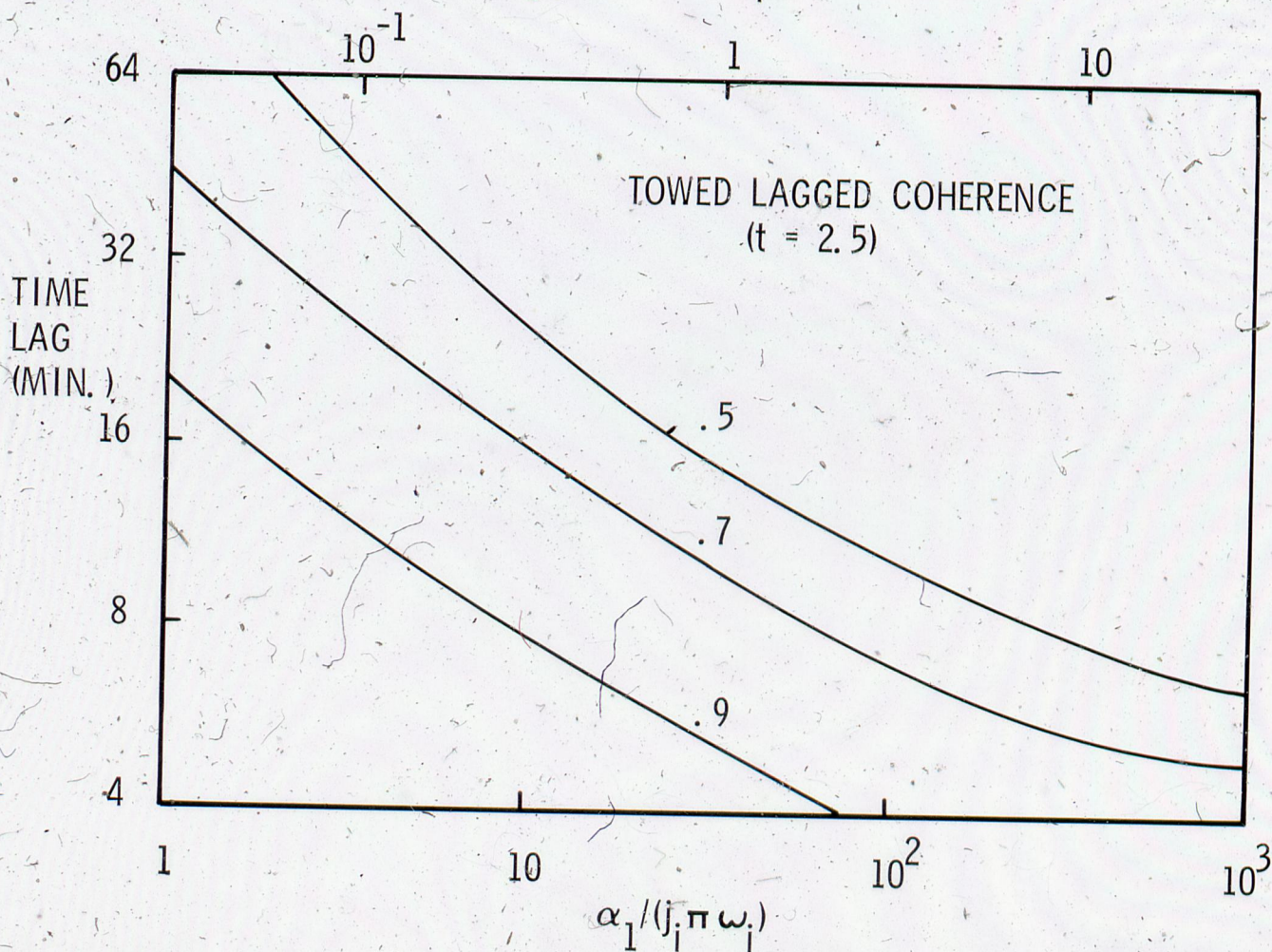
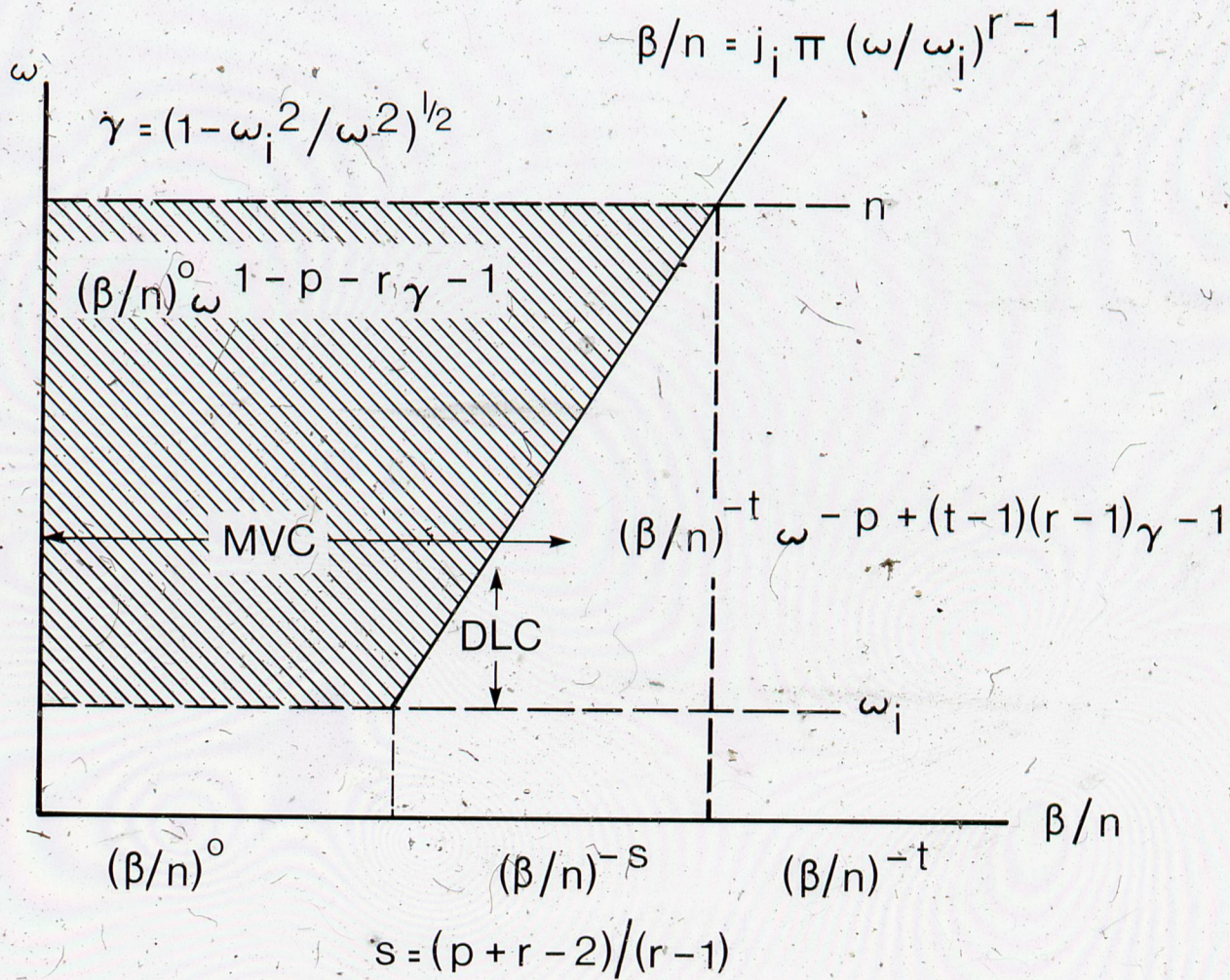
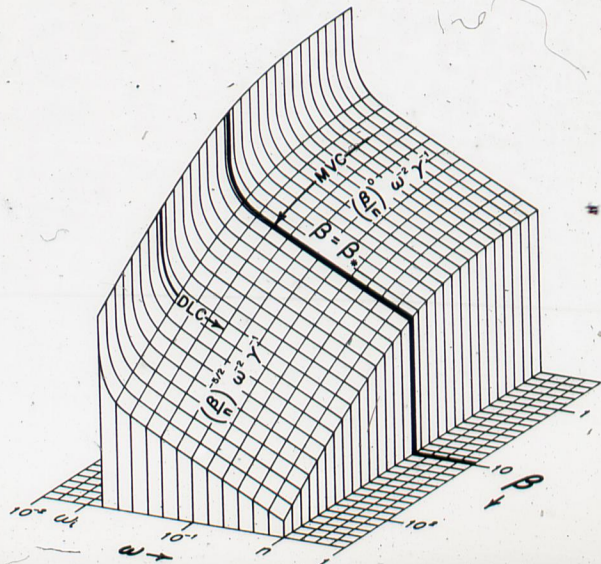
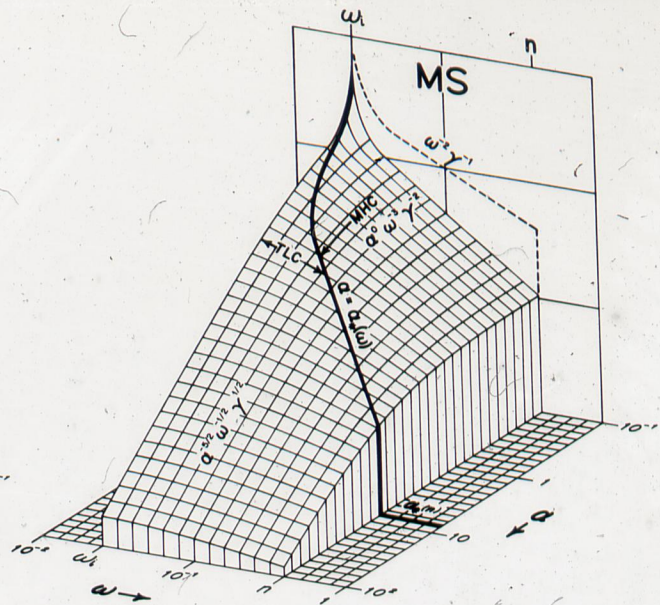
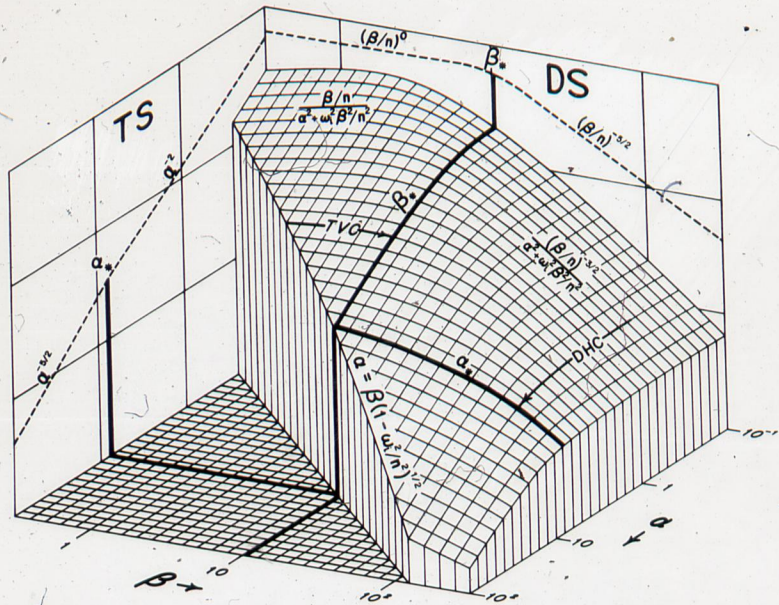


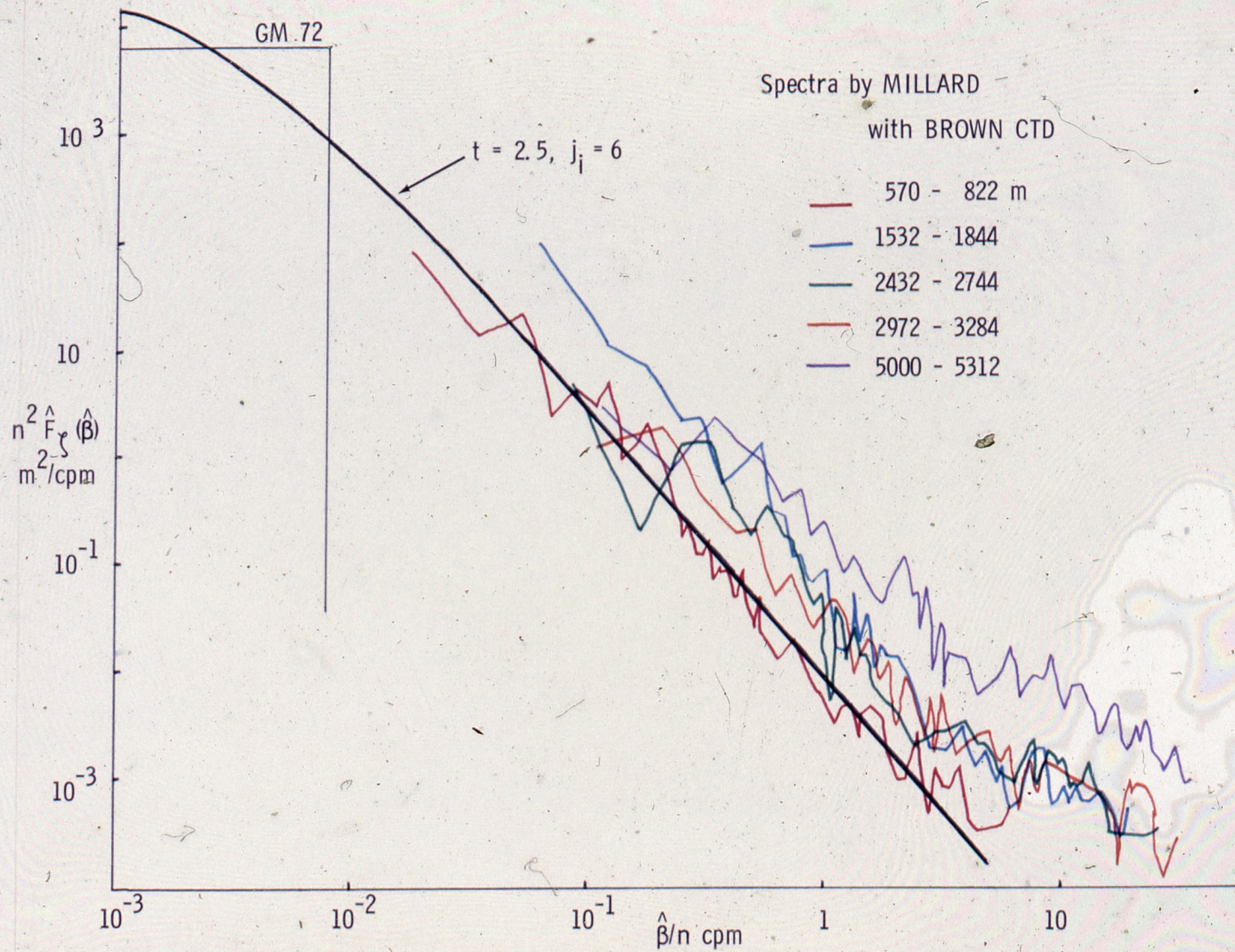
FIGURE 10

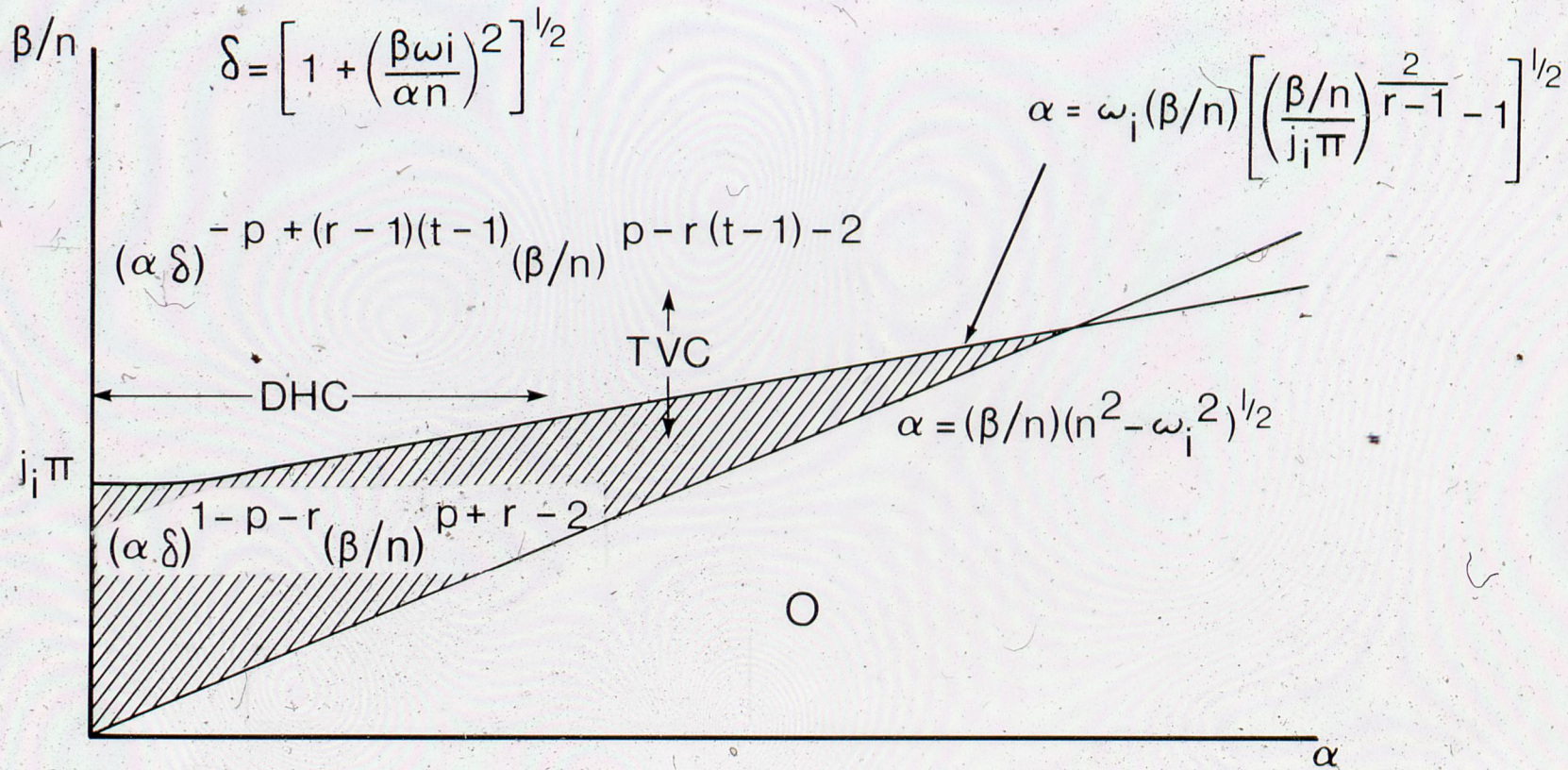
$\hat{\alpha}_1$ , cp km. (for  $j_i = 6$ )



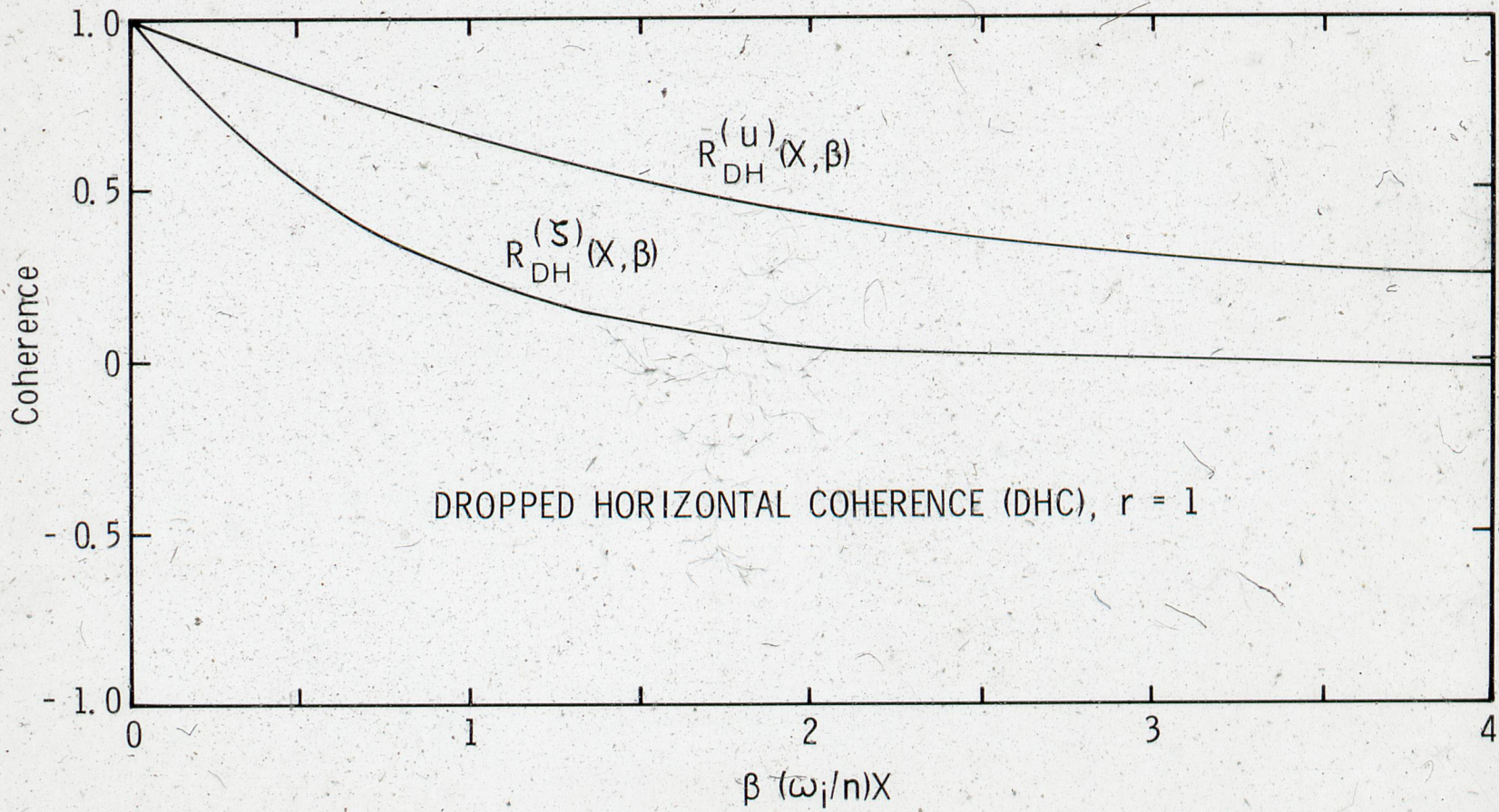




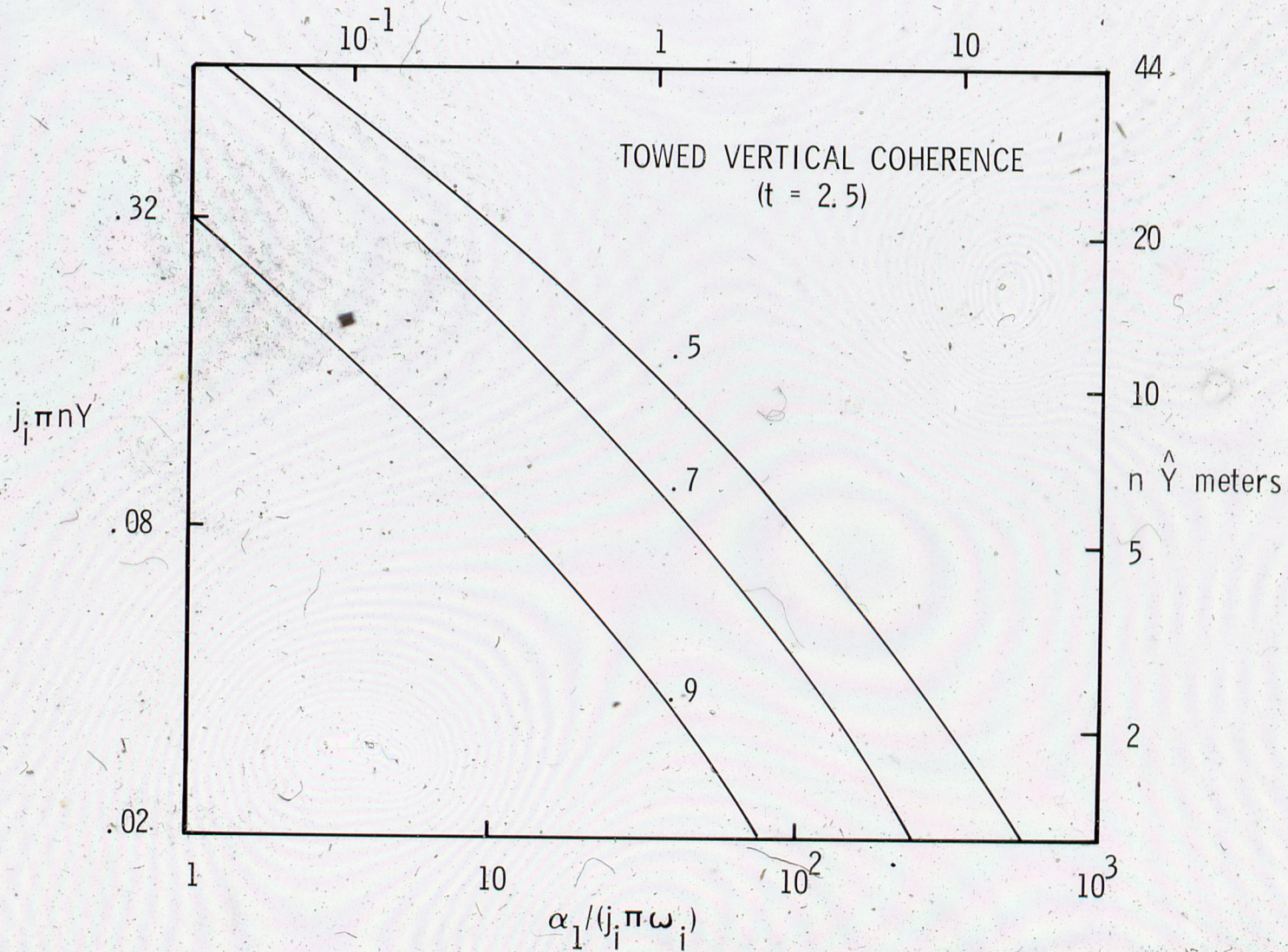








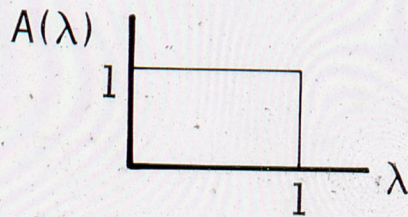
$\hat{\alpha}_1$  cp km (for  $j_i = 6$ )



$$E(\alpha, \omega) = c \mu^{-1} A(\alpha/\mu) \Omega(\omega)$$

$$\Omega(\omega) = \omega^{-p} (1 - \omega_i^2/\omega^2)^{-1/2}$$

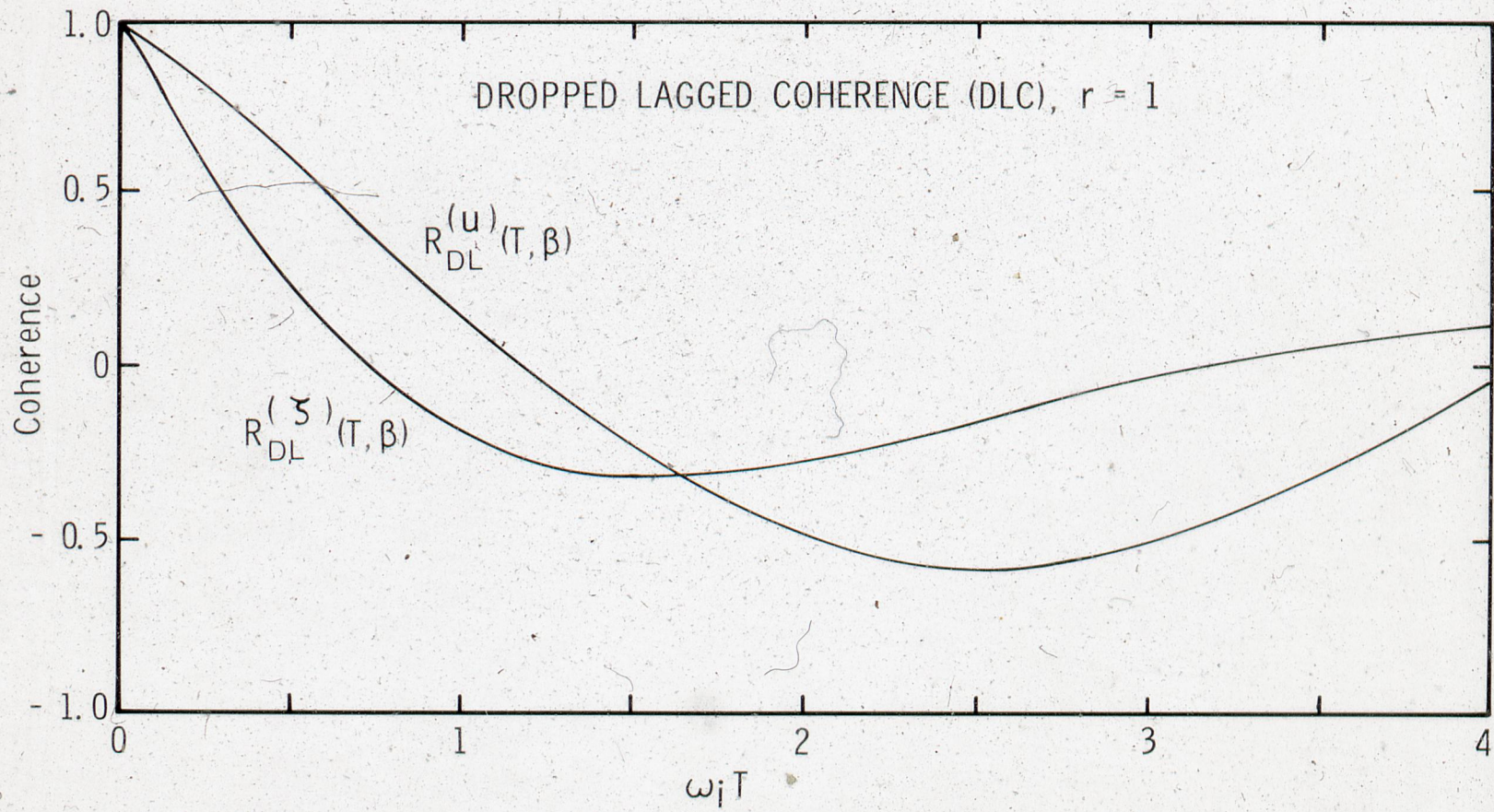
$$\mu = j_i \pi \omega_i (\omega/\omega_i)^r (1 - \omega_i^2/\omega^2)^{1/2}$$



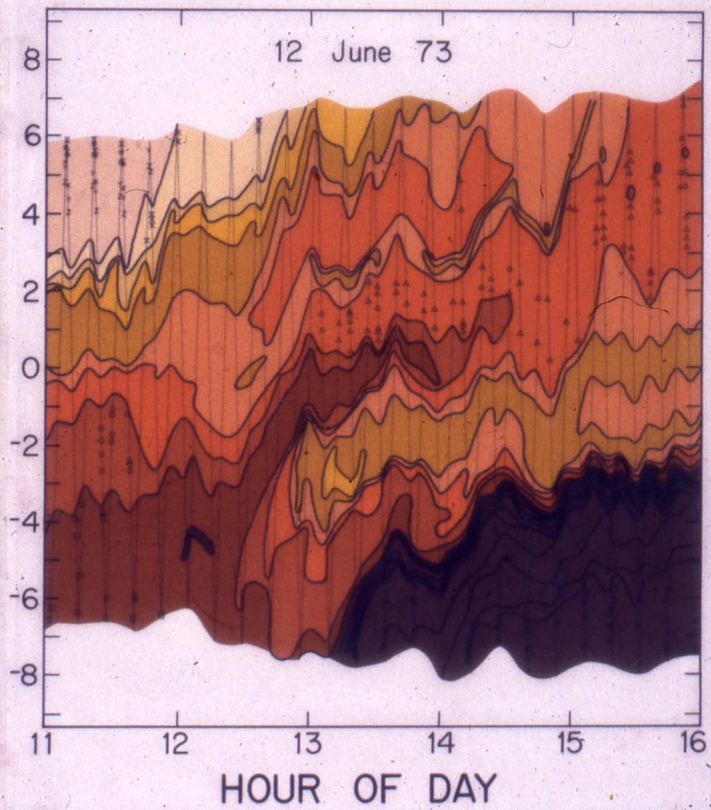
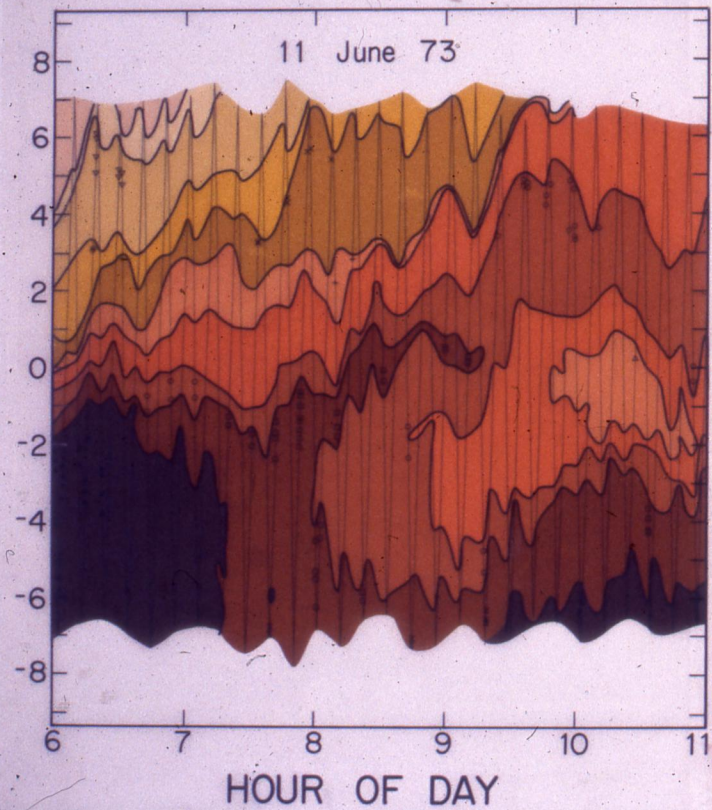
TOP-HAT (GM 72)

OR  $A(\lambda) = (t - 1)(1 + \lambda)^{-t}$











$$\beta = \frac{\alpha n}{(\omega^2 - \omega_i^2)^{1/2}}, \quad \overline{U^2} = n(1 + \omega_i^2/\omega^2), \quad \overline{Z^2} = n^{-1}(1 - \omega_i^2/\omega^2)$$



DISPLACEMENT (m)



LEGEND

-   $4.695 < t$
-   $4.690 < t < 4.695$
-   $4.685 < t < 4.690$
-   $4.680 < t < 4.685$
-   $4.675 < t < 4.680$
-   $4.670 < t < 4.675$
-   $4.665 < t < 4.670$
-   $4.660 < t < 4.665$
-   $4.655 < t < 4.660$
-   $t < 4.655$