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Flujo del Sol llegando a la Tierra
a una altura de 12-15 km (Avion Jet) y
a una altura de 78-83 kms (Coetes)

1968, Drummond, A.J., Hickey, J.R. y
Scholes, W.J. ^{Laue, E.G} Nature, 218, 259

"New Value for the Solar Constant of
Radiation"

$$\text{Total} = \left(\begin{array}{l} 135.8 \times 10^4 \text{ ergs} \\ 136.0 \times 10^4 \text{ cm}^2 \text{ seg} \end{array} \right) \left\{ \begin{array}{l} \text{Total } 136 \times 10^4 \frac{\text{erg}}{\text{cm}^2 \text{ s}} \\ \text{Visible } < 607 \text{ nm } 48.6 \times 10^4 \\ \text{IR } > 607 \text{ nm } 87.4 \times 10^4 \end{array} \right.$$

$$\text{Total en Tierra} = 139.6 \times 10^4 \frac{\text{ergs}}{\text{cm}^2 \text{ seg}} \left\{ \begin{array}{l} < 6070 \text{ \AA} \\ \text{VISIBLE} \\ > 6070 \text{ \AA} \\ \text{Infrarrojo} \end{array} \right. \left\{ \begin{array}{l} \lambda > 200 \times 10^{-9} \text{ m} \\ > 2000 \times 10^{-10} \text{ m} \\ > 2000 \text{ \AA} \end{array} \right. \left\{ \begin{array}{l} \text{Johnson's} \\ \text{Curve} \end{array} \right. \left\{ \begin{array}{l} 52.3 \times 10^4 \frac{\text{erg}}{\text{cm}^2 \text{ s}} \\ 87.3 \times 10^4 \frac{\text{ergs}}{\text{cm}^2 \text{ s}} \end{array} \right.$$

1968, Laue, E.G. & Drummond, A.J.
Science, 161, 888
"Solar Constant: First Direct
Measurement"

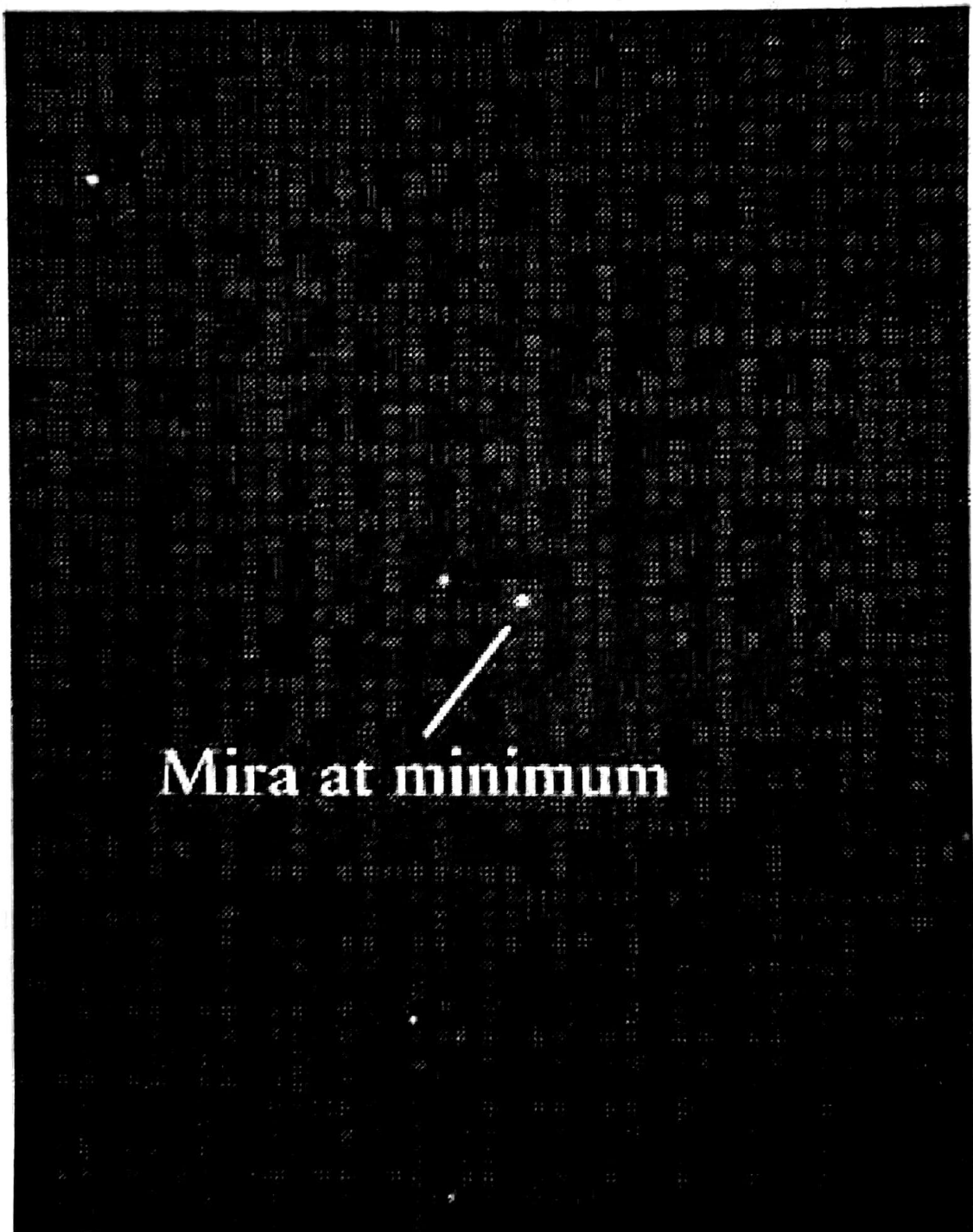
$$\text{Total} = 136 \times 10^4 \frac{\text{ergs}}{\text{cm}^2 \text{ s}}$$

$$\text{visible \& UV } < 607 \text{ nm} = 48.6 \times 10^4 \frac{\text{ergs}}{\text{cm}^2 \text{ s}} \quad 36\%$$

$$\text{IR } > 607 \text{ nm} = 87.4 \times 10^4 \frac{\text{ergs}}{\text{cm}^2 \text{ s}} \quad 64\%$$

$$135 \cdot 8 \times 10^{-3} \times 10^7 \frac{\text{ergs}}{\text{cm}^2 \text{s}} = 135 \times 10^{-8} \times 10^4$$

$$135 \times 10^{-3} \frac{\text{W}}{\text{cm}^2} = \frac{\text{Joules}}{\text{cm}^2 \text{seg}}$$



(3)

Solar Flux

$$F_{\text{Tierra}} = 136 \times 10^4 \frac{\text{ergs}}{\text{cm}^2 \text{ s}}$$

1968 Laue, E.G. & Drummond, A.J.

Science, 161, 888

"Solar Constant: First Direct Measurements"
From altitude of 82 kms.

1971 Labs, D. & Neckel, H.

Solar Physics, 19, 3.

"The Solar Constant."

1968 Drummond, A.J., Hickey, J.R.,

Scholes, W.J. & Laue, E.G.

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"New Value for the Solar
Constant of Radiation"