











$$\sigma = \frac{\text{NEFD} \exp(A \tau_{\text{zen}})}{\sqrt{t_{\sigma}}},$$



Aspirin









1. *Explain the importance of the following factors in the development of a country's economy:*
 a. *Human Resources*
 b. *Capital Resources*
 c. *Technology*
 d. *Government Policy*
 e. *Infrastructure*
 f. *Trade and International Relations*
 g. *Education and Health*
 h. *Environmental Factors*
 i. *Political Stability*
 j. *Legal System*
 k. *Religion and Culture*
 l. *Geographical Location*
 m. *Climate and Natural Resources*
 n. *Demographic Trends*
 o. *Globalization*
 p. *Foreign Investment*
 q. *Export and Import*
 r. *Monetary Policy*
 s. *Fiscal Policy*
 t. *Central Bank*
 u. *Interest Rates*
 v. *Inflation*
 w. *Unemployment*
 x. *GDP Growth*
 y. *Per Capita Income*
 z. *Life Expectancy*
 aa. *Human Development Index*
 ab. *Gender Inequality Index*
 ac. *Corruption Perception Index*
 ad. *World Economic Forum Index*
 ae. *Global Competitiveness Index*
 af. *World Economic Outlook*
 ag. *World Development Report*
 ah. *World Economic Survey*
 ai. *World Economic Review*
 aj. *World Economic Journal*
 ak. *World Economic Magazine*
 al. *World Economic News*
 am. *World Economic Analysis*
 an. *World Economic Research*
 ao. *World Economic Studies*
 ap. *World Economic Data*
 aq. *World Economic Statistics*
 ar. *World Economic Indicators*
 as. *World Economic Trends*
 at. *World Economic Outlook*
 au. *World Economic Review*
 av. *World Economic Journal*
 aw. *World Economic Magazine*
 ax. *World Economic News*
 ay. *World Economic Analysis*
 az. *World Economic Research*
 ba. *World Economic Studies*
 bb. *World Economic Data*
 bc. *World Economic Statistics*
 bd. *World Economic Indicators*
 be. *World Economic Trends*
 bf. *World Economic Outlook*
 bg. *World Economic Review*
 bh. *World Economic Journal*
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 bj. *World Economic News*
 bk. *World Economic Analysis*
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 bq. *World Economic Trends*
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 cc. *World Economic Trends*
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 cp. *World Economic Outlook*
 cq. *World Economic Review*
 cr. *World Economic Journal*
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 cu. *World Economic Analysis*
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 cy. *World Economic Statistics*
 cz. *World Economic Indicators*
 da. *World Economic Trends*
 db. *World Economic Outlook*
 dc. *World Economic Review*
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 dg. *World Economic Analysis*
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 dm. *World Economic Trends*
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 dt. *World Economic Research*
 du. *World Economic Studies*
 dv. *World Economic Data*
 dw. *World Economic Statistics*
 dx. *World Economic Indicators*
 dy. *World Economic Trends*
 dz. *World Economic Outlook*
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 ee. *World Economic Analysis*
 ef. *World Economic Research*
 eg. *World Economic Studies*
 eh. *World Economic Data*
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 ek. *World Economic Trends*
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 et. *World Economic Data*
 eu. *World Economic Statistics*
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 fs. *World Economic Statistics*
 ft. *World Economic Indicators*
 fu. *World Economic Trends*
 fv. *World Economic Outlook*
 fw. *World Economic Review*
 fx. *World Economic Journal*
 fy. *World Economic Magazine*
 fz. *World Economic News*
 ga. *World Economic Analysis*
 gb. *World Economic Research*
 gc. *World Economic Studies*
 gd. *World Economic Data*
 ge. *World Economic Statistics*
 gf. *World Economic Indicators*
 gg. *World Economic Trends*
 gh. *World Economic Outlook*
 gi. *World Economic Review*
 gj. *World Economic Journal*
 gk. *World Economic Magazine*
 gl. *World Economic News*
 gm. *World Economic Analysis*
 gn. *World Economic Research*
 go. *World Economic Studies*
 gp. *World Economic Data*
 gq. *World Economic Statistics*
 gr. *World Economic Indicators*
 gs. *World Economic Trends*
 gt. *World Economic Outlook*
 gu. *World Economic Review*
 gv. *World Economic Journal*
 gw. *World Economic Magazine*
 gx. *World Economic News*
 gy. *World Economic Analysis*
 gz. *World Economic Research*
 ha. *World Economic Studies*
 hb. *World Economic Data*
 hc. *World Economic Statistics*
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 ih. *World Economic News*
 ii. *World Economic Analysis*
 ij. *World Economic Research*
 ik. *World Economic Studies*
 il. *World Economic Data*
 im. *World Economic Statistics*
 in. *World Economic Indicators*
 io. *World Economic Trends*
 ip. *World Economic Outlook*
 iq. *World Economic Review*
 ir. *World Economic Journal*
 is. *World Economic Magazine*
 it. *World Economic News*
 iu. *World Economic Analysis*
 iv. *World Economic Research*
 iw. *World Economic Studies*
 ix. *World Economic Data*
 iy. *World Economic Statistics*
 iz. *World Economic Indicators*
 ja. *World Economic Trends*
 jb. *World Economic Outlook*
 jc. *World Economic Review*
 jd. *World Economic Journal*
 je. *World Economic Magazine*
 jf. *World Economic News*
 jg. *World Economic Analysis*
 jh. *World Economic Research*
 ji. *World Economic Studies*
 jj. *World Economic Data*





$$t_{cal} = n_{cal}(t_{pointing} + t_{focus} + t_{skydips} + t_{conf}),$$







canal

oodi







$$n_{\text{source}} t_{\text{source}} \leq n_{\text{cal}} d_{\text{cal}} \quad i.e. \quad \epsilon_{\text{tel}} t_{\text{tel}} \leq n_{\text{cal}} (d_{\text{cal}} + t_{\text{cal}}) \quad \text{OR} \quad \frac{\epsilon_{\text{tel}} t_{\text{tel}}}{d_{\text{cal}} + t_{\text{cal}}} \leq n_{\text{cal}}.$$



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to



table



W

V

V

E

C

H

D

overhead
sivbsead

overboard

9911





1990-2000



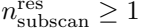


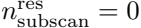
$$\text{floor} \left(\frac{n_{\text{subscan}}^{\text{tot}}}{n_{\text{subscan}}^{\text{max}}} \right),$$

1990-2000

tot max
vba vba vba









WORLD

$$r_{\text{subscan}}(\text{max}(\text{subscan} + \text{overhead}, \text{overhead} + \text{subscan}));$$



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$$n_{\text{scan}} t_{\text{scan}} + [n_{\text{rescan}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}] \cdot$$













$\Delta_{\text{SOI}} + \Delta_{\text{array}} + \Delta_{\text{throw}} + \Delta_{\text{base}}$



airway











A pixelated, black and white graphic of the word "Warp" in a stylized, blocky font. The letters are composed of various shades of gray and black pixels, giving it a retro, digital appearance. The word is centered horizontally and occupies the middle portion of the image.



COVE

corvet
airborne

$$\Omega_{\text{map}} = n_{\text{subscan}}^{\text{cover}} \delta \Delta_{\text{tot}}^{\parallel} \quad \text{with} \quad n_{\text{subscan}}^{\text{cover}} = \text{ceil} \left(\frac{\Delta_{\text{tot}}^{\perp}}{\delta} + 1 \right);$$

$$\Delta_{tot} = v_{||} t_{subscan} \text{ and } t_{cover} = n_{cover} t_{subscan};$$

WINTER IS COMING

ALDO 2012





can't do it

$\Delta edge = \Delta array + \Delta row + \Delta base$



$$\Delta \text{submap}(\Delta \text{submap} + \Delta \text{edge}) = \Delta \text{submap} \odot v.$$

$$\Delta_{\text{submap}} = \frac{\sqrt{\Delta_{\text{edge}}^2 + 4d_{\text{submap}}\delta v_{\parallel}} - \Delta_{\text{edge}}}{2}.$$

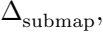




$\Delta_{\text{moe}} + \Delta_{\text{array}} + \Delta_{\text{throw}} + \Delta_{\text{base}}$







$\Delta \text{vibmap} + \Delta \text{array} + \Delta \text{brown} + \Delta \text{base}$

$$\Delta_{\parallel \text{mos}}^2 + \Delta_{\perp \text{mos}}^2$$

$$\Delta_{\text{submap}}^2$$



$$\sigma_{\text{beam}} = \frac{\text{NEFD} \exp(A \tau_{\text{zen}})}{\sqrt{t_{\text{beam}}}} \quad \text{with} \quad t_{\text{beam}} = \frac{n_{\text{cover}} t_{\text{cover}}}{n_{\text{beam}}^{\text{bol}}},$$





bold

bold

$$n_{\text{beam}}^{\text{bol}} = \frac{\Omega_{\text{map}}}{n_{\text{bol}}^{\text{tot}} \Omega_{\text{beam}}} \quad \text{with} \quad n_{\text{bol}}^{\text{tot}} = n_{\text{bol}}^{\text{max}} - n_{\text{bol}}^{\text{dead}} \quad \text{and} \quad \Omega_{\text{beam}} = \frac{\eta_{\text{grid}} \pi \theta^2}{4 \ln(2)},$$



2020

01234



$$\sigma_{\text{beam}} = \frac{\text{NEFD}}{\sqrt{n_{\text{bol}}^{\text{tot}} \Omega_{\text{beam}}}} \exp(A \tau_{\text{zen}}) \sqrt{\frac{\delta v_{\parallel}}{n_{\text{cover}}}}.$$

$$\frac{\text{NEFD}}{\sqrt{n_{\text{bol}}^{\text{tot}}} \Omega_{\text{beam}}} \simeq 0.2 \text{ (mJy/Beam)} \sqrt{s}''.$$

$$\sigma_{\text{actual}} = a(\Delta_{\text{sou}}^{\parallel}) \exp(A \tau_{\text{zen}}) \sqrt{\frac{\delta v_{\parallel}}{n_{\text{cover}}}} \, ;$$





$$n_{\text{subscan}}^{\text{max}} (t_{\text{subscan}} + t_{\text{scan}}^{\text{overhead}}) + t_{\text{scan}}^{\text{overhead}} \leq d_{\text{scan}} \quad \text{Or} \quad n_{\text{subscan}}^{\text{max}} \leq \frac{d_{\text{scan}} - t_{\text{scan}}^{\text{overhead}}}{t_{\text{subscan}} + t_{\text{subscan}}^{\text{overhead}}}$$







0509

$$\Delta \| + \Delta array + \Delta throw + \Delta base$$



and empirical increasing function of Δ .





$$\Delta_{\text{submap}} = 0.5 \left(\sqrt{\Delta_{\text{edge}}^2 + 4d_{\text{submap}} \delta v_{\parallel}} - \Delta_{\text{edge}} \right)$$

$\Delta edge = \Delta array + \Delta row + \Delta base$



$\Delta_{\text{moe}} + \Delta_{\text{array}} + \Delta_{\text{throw}} + \Delta_{\text{base}}$

$\Delta \text{vibmap} + \Delta \text{array} + \Delta \text{brown} + \Delta \text{base}$

$$\Delta_{\parallel \text{mos}}^2 + \Delta_{\perp \text{mos}}^2$$

$$\Delta_{\text{submap}}^2$$

$$n_{cal} = \text{ceil}\left(\frac{e_{tel} t_{tel}}{d_{cal} + t_{cal}}\right),$$



$$t_{\text{source}} = \frac{E_{\text{tel}} t_{\text{tel}} - n_{\text{cal}} t_{\text{cal}}}{n_{\text{source}}}.$$

www.globe

cafe



WORLD

evbcbad and max are fixed;

$$t_{\text{scan}} = \gamma_{\text{max}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}.$$

$$t_{\text{subscan}} = \frac{\Delta_{\text{tot}}}{v_{\parallel}} ,$$

$$n_{\text{subscan}}^{\text{max}} = \text{floor} \left(\frac{d_{\text{scan}} - t_{\text{scan}}}{t_{\text{subscan}} + t_{\text{overhead}}^{\text{subscan}}} \right),$$



if $\frac{MA}{subscan} > 1$, then send an error message advising to increase $subscan$.



$$t_{\text{scan}} = \gamma_{\text{max}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}.$$

$$n_{\text{scan}} = \text{floor} \left(\frac{t_{\text{source}}}{t_{\text{scan}}} \right),$$

$$n_{\text{subscan}}^{\text{res}} = \text{floor} \left(\frac{t_{\text{source}} - n_{\text{scan}} t_{\text{scan}} - t_{\text{overhead}}}{t_{\text{subscan}} + t_{\text{overhead}}} \right),$$

$$n_{\text{tot}} = n_{\text{scad}} n_{\text{max}} + n_{\text{res}}$$

$$n_{\text{subscan}}^{\text{cover}} = \text{ceil} \left(\frac{\Delta_{\text{tot}}}{\delta} + 1 \right),$$

$$n_{\text{cover}} = \text{floor} \left(\frac{n_{\text{subscan}}^{\text{tot}}}{n_{\text{subscan}}^{\text{cover}}} \right),$$

if $\text{cover} < 1$, then send an error message advising to increase cov ;

toot = *cover* *number*

$$n_{\text{scan}} = \text{floor} \left(\frac{n_{\text{subscan}}^{\text{tot}}}{n_{\text{subscan}}^{\text{max}}} \right),$$

$$res_{tot} = res_{max}$$

$$t = (n_{\text{max}} + n_{\text{res}}) \cdot \text{subcan}$$

$$\sigma = \frac{\text{NEFD} \exp(A \tau_{\text{zen}})}{\sqrt{t_{\sigma}}}.$$

$$\sigma = \alpha \exp(A \tau_{\text{zen}}) \sqrt{\frac{\delta v_{\parallel}}{n_{\text{cover}}}} ,$$

$$t_{\text{source}} = n_{\text{scan}} t_{\text{scan}} + [n_{\text{res}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}]$$

$$n_{cal} = \text{ceil}\left(\frac{n_{source} t_{source}}{d_{cal}}\right),$$

$$t_{tel} = \frac{n_{source} t_{source} + n_{cal} t_{cal}}{\epsilon_{tel}}.$$

$$t_{\sigma} = \left[\frac{\text{NEED} \exp(A \tau_{zen})}{\sigma} \right]^2,$$

$$n_{\text{subscan}}^{\text{tot}} = \text{ceil} \left(\frac{t_{\sigma}}{t_{\text{subscan}}} \right).$$

$$n_{\rm cover} = \text{floor} \left\{ \delta v_{\parallel} \left[\frac{a \exp(A \tau_{\rm zen})}{\sigma} \right]^2 \right\},$$

if ever, then send an invitation to discuss,

$$n_{\text{subscan}}^{\text{cover}} = \text{ceil} \left(\frac{\Delta_{\text{tot}}}{\delta} + 1 \right),$$

toot
= noot
noot noot















100%

dead
boi







