

## IERS Mean C(2,1) & S(2,1) Values

Angular displacement from IERS mean reference pole  
for Epoch Jan 1, 2000

$$X_0 = 0.054 \text{ arcsec} \quad Y_0 = 0.357 \text{ arcsec}$$

$$X = X_0 + 0.0083 (\text{EPOCH} - 2000)$$

$$Y = Y_0 + 0.3570 (\text{EPOCH} - 2000)$$

$$C(2,1) = +\text{sqrt}(3) * X * C(2,0) - X * C(2,2) + Y * S(2,2)$$

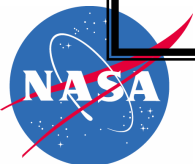
$$S(2,1) = - \text{sqrt}(3) * Y * C(2,0) - Y * C(2,2) - X * S(2,2)$$

$C(2,0)$  = “tide free” coefficient (for GEODYN)

EPOCH = 2004.0, for EIGEN GL04S, ITG-GRACE03S, EGM2008.

IERS Model Includes

$$C_{21\text{-dot}} = -0.337 \text{ e-11/yr}; \quad S_{21\text{-dot}} = 1.606 \text{ e-11/yr}$$



## Transformed Gravity Models for Epoch 2004

• Model	Coef	Original Value	IERS VALUE
• EGM 2008	C(2,1)	-0.20661550967418 e-9	-0.236251 26249283 e-9
•	S(2,1)	1.3844138913798 e-9	1.511651 1431905 e-9
• Eigen GL04S	C(2,1)	-0.225214669755 e-9	-0.236251 31926512 e-9
•	S(2,1)	1.44094981423 e-9	1.511651 4419256e-9
• ITG Grace03s	C(2,1)	-0.2654790999243 e-9	-0.236251 24068999 e-9
•	S(2,1)	1.4753933142830 e-9	1.511651 0029183 e-9

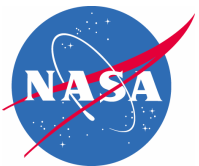


QuickTime™ and a  
TIFF (Uncompressed) decompressor  
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# IDS Analysis Forum



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NASA GSFC & SGT-Inc. Frank Lemoine & Doug Chinn  
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