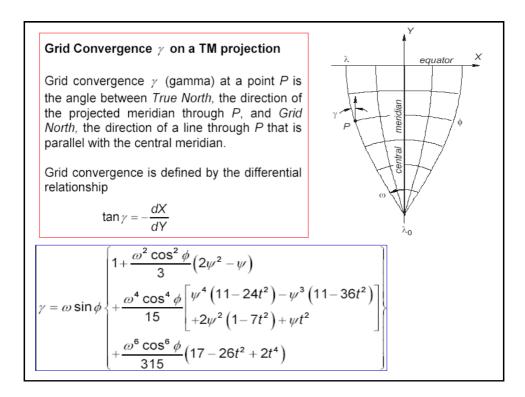
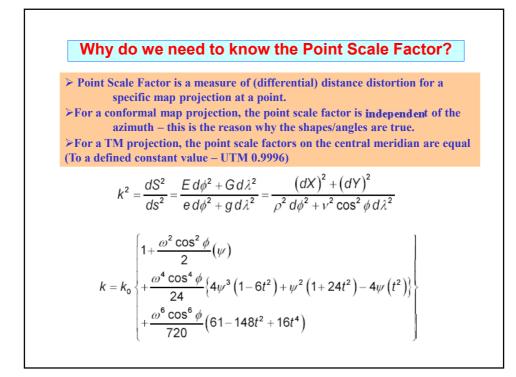
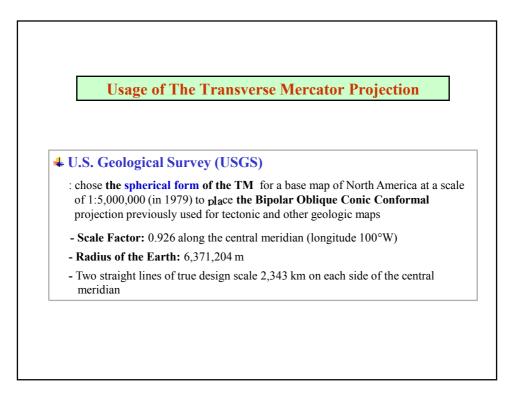


$$\begin{aligned} & \textbf{Equations for TM Map Projection} \\ \textbf{see R.E. Deakin (2004) for all the notations} \\ & \textbf{X} = k_0 \left\{ v \omega \cos \phi + v \frac{\omega^3}{6} \cos^3 \phi \left( \psi - t^2 \right) \\ & + v \frac{\omega^5}{120} \cos^5 \phi \left[ 4 \psi^3 \left( 1 - 6t^2 \right) + \psi^2 \left( 1 + 8t^2 \right) - \psi \left( 2t^2 \right) + t^4 \right] \right] \\ & + v \frac{\omega^7}{5040} \cos^7 \phi \left( 61 - 479t^2 + 179t^4 - t^6 \right) \end{aligned} \end{aligned}$$







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