Quick Notes on Map Proj	ections in ArcGIS					ertie			Þ			ole E			Loc										urpo
Minimal Distortion									world																
 Distortion is moderate for most of the area Distortion is minimal in certain directions or at particular points 						*u	Straight Rhumbs		entire 1			Continent/Ocean					r			4)					
Adapted from USGS Map Projections poster.		_	e;	ıise	nt*	ctio	hur	pa	e er		ere	t/0	ea	<u>е</u>	_	de	cula	uth	ب	Jare		hic		ion	ے
	esri THE SCIENCE OF WHERE	rma	Are	ron	ista)ire	ht R	upt	s th		bhe	neu	n/Se	Sca	oria 	titu	Circ	/So	Nes	ıbs/	<u>Je</u>	grap	atic	ntat	atio
November 2019		Conformal	Equal Area	Compromise	Equidistant*	True Direction*	raig	Interrupted	Shows the	World	Hemisphere	ntir	Region/Sea	Large Scale	Equatorial	Midlatitude	Polar/Circula	North/South	East/West	Equal/square	Oblique	Topographic	Thematic	Presentation	Navigation
Projection	Type		Ec	CC	Ec	Tr	St	In		\wedge	He	ပ	Re	Га	Eo	Σ	Рс	ž	Еа	Eo	Ö	To	는	Pr	ž
Adams square II Aitoff	Modified azimuthal Modified azimuthal	•							•	•														•	_
Albers equal area conic	Conic		•	•					•	•		•		•		•			•				•		
Aspect-adaptive cylindrical	Cylindrical			•					•	•					_									•	
Azimuthal equidistant	Azimuthal				•	•			•	0	•	•	•	•	•	•	•			•	•	•			•
Behrmann equal area cylindrical	Cylindrical		•						•	•														0	
Berghaus Star	Faceted					0		•	•	•														•	
Bonne	Pseudoconic		•						•			•	•			0		0				0	0	0	
Cassini	Cylindrical (transverse)				•									•	•	•		•				•			
Compact Miller Craster parabolic	Cylindrical Pseudocylindrical		•	•					•	•													•	•	
Cube	Faceted							•	•	0														•	
Cylindrical equal area	Cylindrical		•						•				•	•	•				0				•	0	
Double stereographic	Azimuthal	•				•						•	•	•	•	•	•			•	•	•			
Eckert I	Pseudocylindrical			•					•	0														0	
Eckert II	Pseudocylindrical		•						•	0					\Box									0	
ckert III	Pseudocylindrical			•					•	•														0	
Eckert IV	Pseudocylindrical		•						•	•													•	•	
Eckert V	Pseudocylindrical Pseudocylindrical			•					•	0														0	
Eckert VI Eckert-Greifendorff	Pseudocylindrical Modified azimuthal		•						•	0 0													•	0	
Egual Earth	Pseudocylindrical	+-	•						•	0													•	0	
Equidistant conic	Conic				•				•			0	•	•		•			•				Ť	Ť	
Equidistant cylindrical	Cylindrical				•				•				•	•	•	-			0						
Fuller	Faceted							•	•	0													•	•	
Gall's stereographic	Cylindrical			•					•	0														0	
Gauss-Krüger	Cylindrical (transverse)	•											•	•	•	•		•		•		•			•
Geostationary satellite	Azimuthal										•	•	•		•	•		•	•	•					
Gnomonic	Azimuthal					•							0	0	•	•	•				•			•	•
Goode homolosine	Pseudocylindrical		•					•	•	0													•	•	
Hammer	Modified azimuthal	—	•						•	•				_	\dashv						_		•	•	
Hotine oblique Mercator GAC Plano Cartesiano	Cylindrical (oblique) Modified azimuthal	•											•	•	•	•		•	•	•	•	•			
Krovak	Conic (oblique)	•											•		-	0					•	•		•	
_aborde oblique Mercator	Cylindrical (oblique)	•											•	•	•	•					•	•		Ť	
ambert azimuthal equal area	Azimuthal		•			•			•		•	•	•		•	•	•			•	•		•	•	•
ambert conformal conic	Conic	•										•	•	•		•			•			•		•	
ocal Cartesian	Azimuthal													•	•	•	•	0	0	•	0				
_oximuthal	Pseudocylindrical			•			•		•	•														0	•
McBryde-Thomas flat-polar quartic	Pseudocylindrical		•						•	0														0	
Mercator	Cylindrical	•				•	•						•	•	•				0			•			•
Miller cylindrical Mollweide	Cylindrical		_	•					•	0														0	
Natural Earth	Pseudocylindrical Pseudocylindrical	-	•	•					•	•					-								•	•	_
Natural Earth II	Pseudocylindrical			•					•	•														•	
New Zealand Grid	Modified cylindrical	•												•							•	•			
Ney modified conic	Modified conic	•										0	•	•			•			•	•	•			
Orthographic	Azimuthal					•					•	•			•	•	•				•			•	
Patterson	Cylindrical			•					•	•														•	
Peirce quincuncial	Modified azimuthal	•							•	•	•													•	
Plate-Carrée	Cylindrical				•				•				•	•	•				0					0	
Polyconic	Polyconic			•	0				•					0		•		•				•			
Quartic authalic	Pseudocylindrical		•						•	0													•		
Rectified skew orthomorphic	Cylindrical (oblique)	•		_					_					•							•	•			
Robinson Sinusoidal	Pseudocylindrical Pseudocylindrical		•	•	0				•	•		•			•			•					•	•	
Stereographic	Azimuthal	•			J	•				J	•	•	•		•	•	•			•	•			Ĭ	•
Times	Pseudocylindrical			•					•	•													•	0	
Tobler cylindrical I	Cylindrical			•					•	•														•	
obler cylindrical II	Cylindrical			•					•	•														•	
ransverse cylindrical equal area	Cylindrical (transverse)		•						•				•	•	•	•		•					•		
Fransverse Mercator	Cylindrical (transverse)	•											•	•	•	•		•				•			
Two-point equidistant	Modified azimuthal				•				•	0	0	•	•	•							•		•		0
/an der Grinten I	Polyconic			•					•	0														0	
Vertical near-side perspective	Azimuthal		_			•			_	_	•	•	•		•	•	•				•			•	
Nagner IV Nagner V	Pseudocylindrical Pseudocylindrical		•	•					•	•													•		
Wagner VII	Modified azimuthal		•						•	•													•	•	
Winkel I	Pseudocylindrical			•					•	0														0	
Winkel II	Pseudocylindrical								•	•														0	
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