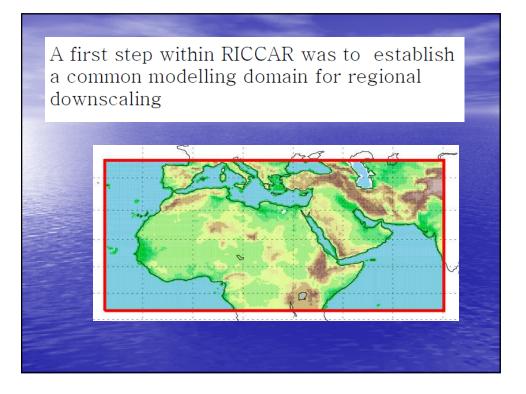
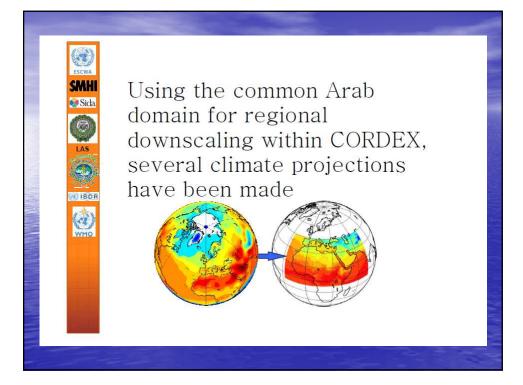


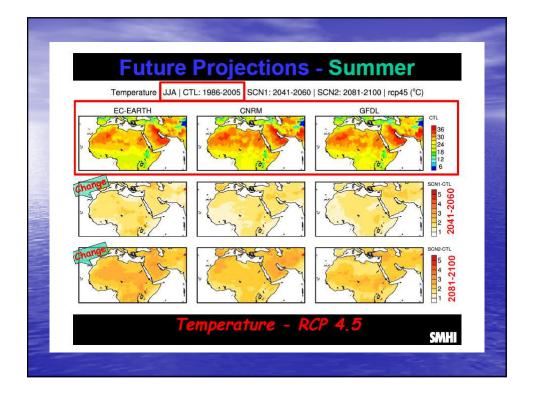
RCM (Institute)	GCM	Historical 1950-2005	RCP2.6 2006-2100	RCP4.5 2006-2100	RCP8.5 2006-2100	A Carton
RCA4 (SMHI)	EC-Earth 50km	~	<ul> <li>✓</li> </ul>	<b>√</b>	<b>V</b>	
RCA4 (SMHI)	EC-Earth 25km	~			~	
RCA4 (SMHI)	CNRM 50km	~		1	<b>V</b>	
RCA4 (SMHI)	GFDL-ESM	~		~	~	
RCA4 (SMHI)	GFDL-ESM 25km	~			~	
na (Kaust)	GFDL-ESM-1 25km	~		~	~	
na (Kaust)	GFDL-ESM-2 25km	~		×	1	
Remo (CSC)	MPI-ESM	~		~	~	
RegCM4 (Kau)	HadGEM2	¥.		1	1	
RegCM4	MPI-ESM 50km	1		1	1	
RegCM4	GFDL-ESM	1		1	1	

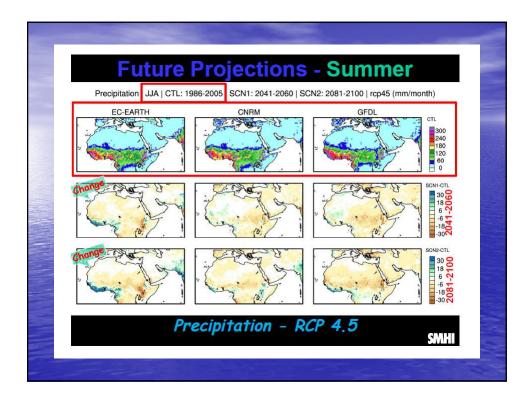
Co	re: Monthly and seasonal output.		
1	2-metre Air Temperature	K	
2	Maximum 2-metre Air Temperature (monthly average of daily maximum)	K	
3	Minimum 2-metre Air Temperature (monthly average of daily minimum)	K	COPDEY Space
4	Precipitation	kg/m²/s	<b>CORDEX Specs</b>
5	Mean Sea Level Pressure	Pa	
6	2-metre Specific Humidity	1	
7	10-metre Wind Speed	m/s	
8	Maximum 10-metre Wind Speed (monthly average of daily max)	m/s	
9	Total Cloud Cover	%	
10	Sunshine Hours (duration when surface solar radiation flux exceeds 120 W/m <sup>2</sup> )	s	
11	Surface Downwelling Shortwave Radiation	W/ m <sup>2</sup>	
	Surface Downwelling Longwave Radiation	W/ m <sup>2</sup>	
	Surface Latent Heat Flux	W/ m <sup>2</sup>	
	Surface Sensible Heat Flux	W/ m <sup>2</sup>	
	Upwelling Surface Shortwave Radiation	W/ m <sup>2</sup>	
	Upwelling Longwave radiation	Wℓ m <sup>2</sup>	
	Surface Evaporation	kg/m²/s	
	Soil Frozen Water Content	kg/m <sup>2</sup>	
	Surface Runoff	kg/m²/s	
	Total Runoff	kg/ m²/s	
	Total Soil Moisture Content	kg/m <sup>2</sup>	
	Snow Amount	kg/m <sup>2</sup>	
	Snow Melt	kg/m²/s	
	TOA Outgoing Longwave Radiation	W/m <sup>2</sup>	
	TOA Incident Shortwave Radiation	W/ m <sup>2</sup>	
26	TOA Outgoing Shortwave Radiation	W/ m <sup>2</sup>	
	Eastward 10-metre Wind Velocity	m/s	
	northward 10-metre Wind Velocity	m/s	
	Zonal (castward) Wind at 850 hPa	m/s	
	Meridional (northward) Wind at 850 hPa	m/s	
31	Temperature at 850 hPa	K	
32	Specific Humidity at 850 hPa	1	
	Zonal (eastward) Wind at 500 hPa	m/s	
	Meridional (northward) Wind at 500 hPa	m/s	
	Geopotential Height at 500 hPa	m	
	Temperature at 500 hPa	K	
	Zonal (castward) Wind at 200 hPa	m/s	
	Meridional (northward) Wind at 200 hPa	m/s	
	Temperature at 200 hPa	K	monthly
40	Geopotential at 200 hPa	m	monuniv
41 42	Snow Area Fraction	%	
42		m	SMA
43	Sea Ice Fraction	%	

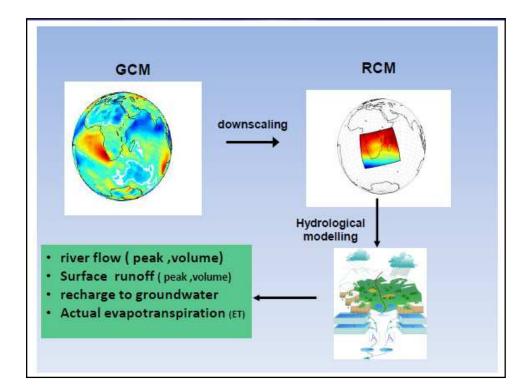
Tier 1	Daily average output (for some variables minimum	n maximum	3		
	netre Air Temperature	K	-		
	iximum 2-metre Air Temperature	K		CORDEX Sp	
	nimum 2-metre Air Temperature	K		CORDEX SD	ERS
	cipitation	kg/m2/s		O O NDEN OP	
	rface Pressure	Pa			
	an Sea Level Pressure	Pa		Temperature at 850 hPa	К
7 2-1	netre Specific Humidity	1	-44	Specific Humidity at 850 hPa	1
	metre Wind Speed	m/s	45	Zonal (eastward) wind at 500 hPa	m/s
	iximum 10-metre Wind Speed	m/s	-46	Meridional (northward) wind at 500 hPa	m/s
	tal Cloud Cover	9%	- 47	Geopotential height at 500 hPa	m
	nshine Hours	8	48	Temperature at 500 hPa	К
	rface Downwelling Shortwave Radiation	W/m <sup>2</sup>	- 49	Zonal (castward) wind at 200 hPa	m/s
	rface Downwelling Longwave Radiation	W/m <sup>2</sup>	- 50	Meridional (northward) wind at 200 hPa	m/s
	rface Latent Heat Flux	W/m <sup>2</sup>	51	Temperature at 200 hPa	K
	rface Sensible Heat Flux	$W/m^2$	52	Geopotential at 200 hPa	m
	rface Upwelling Shortwave Radiation	$W/m^2$	- 53°	High Clouds (p<440 hPa) if available	9%
	rface Upwelling Longwave radiation	W/m <sup>2</sup>	54	Medium Clouds (680 hPa < p < 440 hPa) if available	9%
	rface Evaporation	kg/ m <sup>2</sup> /s	- 55	Low Clouds (p>680 hPa) if available	9%
	tential Evaporation	kg/m <sup>2</sup> /s	- 56	Snow Area Fraction	%
	il Frozen Water Content	kg/m <sup>2</sup>	57	Snow depth	m
	rface Runoff	kg/ m <sup>2</sup> /s	58	Sea Ice Fraction	9%
	tal Runoff	kg/ m <sup>2</sup> /s	- 59	Snowfall Flux	kg/m <sup>2</sup> /s
	tal Soil Moisture Content	kg/m <sup>2</sup>		40100420802107707	
	ow Amount	kg/m <sup>2</sup>	-		
	ow Melt	kg/m <sup>2</sup> /s	-		
	iximum 1-hour Precipitation Rate within the 24 hour period	kg/ m <sup>2</sup> /s			
	nvective Precipitation	kg/ m <sup>2</sup> /s	-		
	DA Outgoing Longwave Radiation	W/m <sup>2</sup>	-		
	A Incident Shortwave Radiation	W/m <sup>2</sup>	-		
	A Outgoing Shortwave Radiation	W/m <sup>2</sup>	-		
	stward 10-metre Wind Speed	m/s	-		
	rthward 10-metre Wind Speed	m/s			
	iximum 10-metre GUST Wind Speed if available	m/s	-		
	rface Downward Eastward Wind Stress	Pa			
	rface Downward Eastward wind Stress	Pa			
	rface (skin) Temperature	K			
			_		
	mospheric Boundary Layer Thickness	m			
	lumn Water Vapour	m			
	lumn Condensed (liquid+ice) Water Content	m		daily	
	lumn Ice Water Content	m		daily	
	nal (eastward) Wind at 850 hPa	m/s			
42 Mc	ridional (northward) Wind at 850 hPa	m/s			











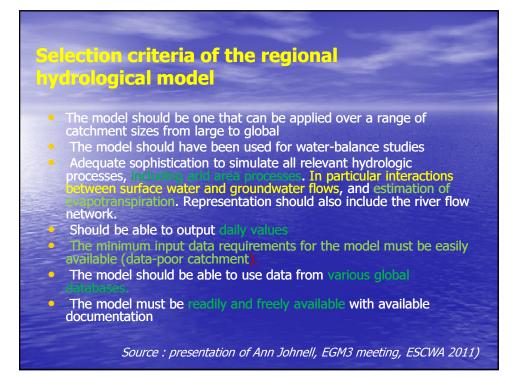
# Hydrological modeling

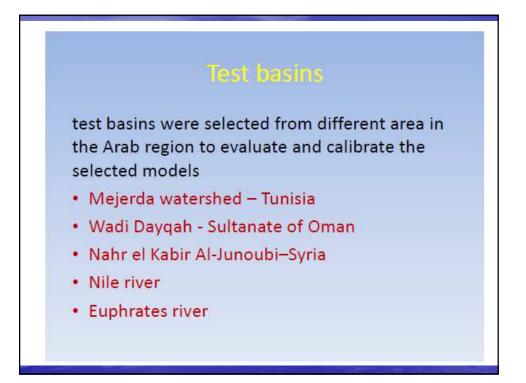
The following models were selected to simulate hydrological process over the Arab region

• HYPE model (*HYdrological Predictions* for the Environment)

VIC model

HEC-HMS

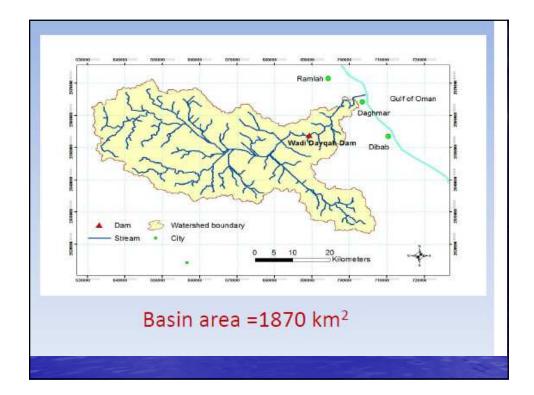




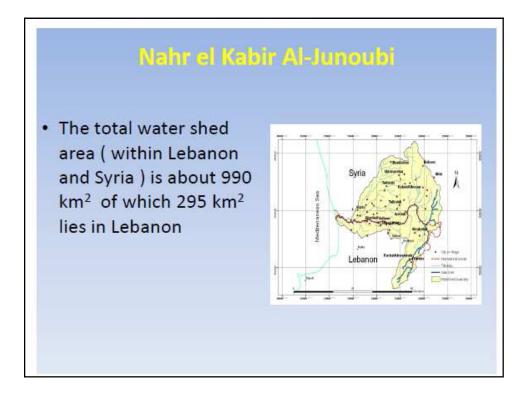


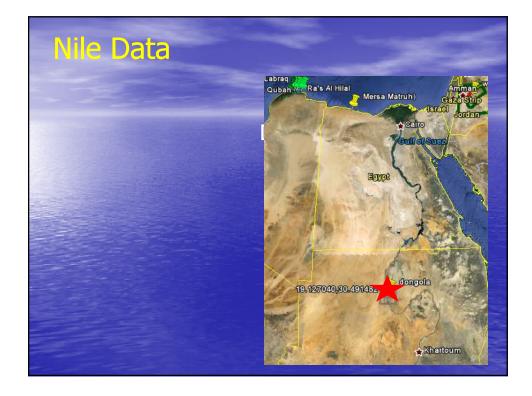


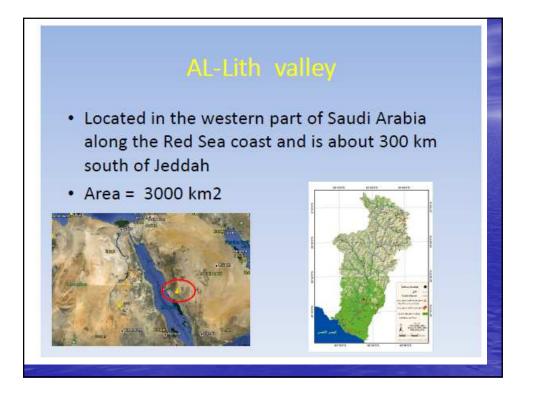


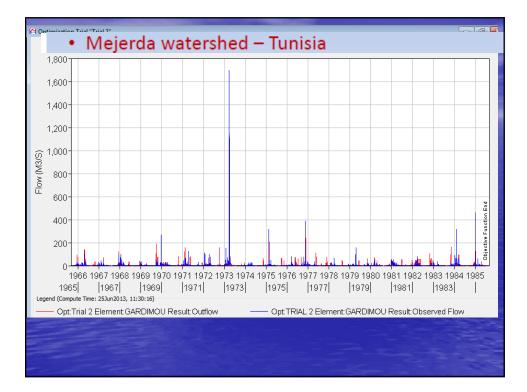




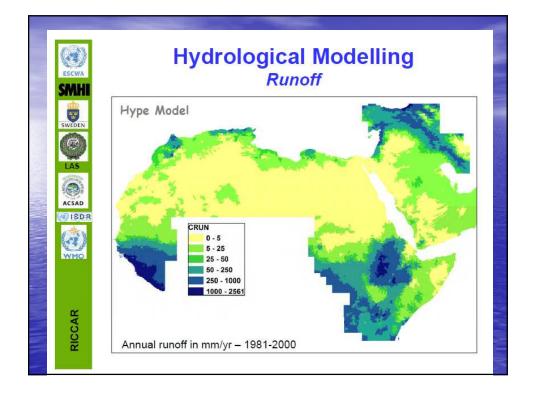


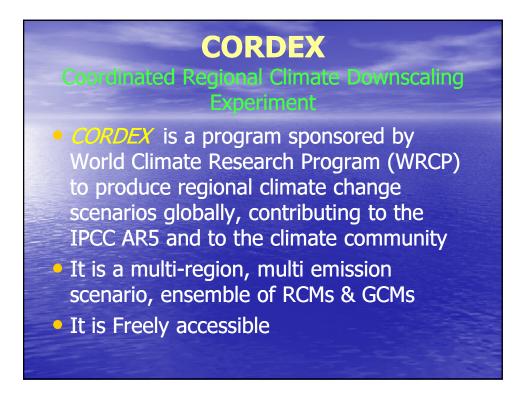


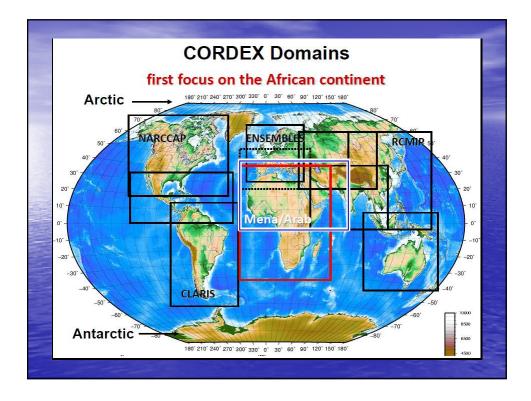




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pun	nized pa	en	IELE	15	
Optimized P	arameter Results for Tria	l "Trial 2"			- C <b>X</b>
	Project: hydrologi	cmodel (	Optimization 1	Trial: Trial 2	
Com	of Trial: 31Aug1985, 00: oute Time: 25Jun2013, 11:	30:16 C	leteorologic N ontrol Specifi	cations: tttt	_control
Element	Parameter	Units	Initial Value	Optimized Value	Objective Function Sensitivity
Gardimou	Soil Infiltration Rate	MM/HR	1.97	1.3386	-24.76
Gardimou	Soil Percolation Rate	MM/HR	0.653	0.44168	-37.25
Gardimou	Groundwater 1 Perco	MM/HR	2.03	2.0701	-0.02
Gardimou	Groundwater 2 Perco	MM/HR	2.03	2.0704	-0.00
Gardimou	Groundwater 1 Stora	HR	10	0.26012	0.33
Gardimou	Groundwater 2 Stora	HR	9.77	1.9299	0.00
Gardimou	Baseflow Initial Flow	M3/S	0.145	0.0286420	0.00
Gardimou	Baseflow Threshold R		0.254	0.38100	0.00
Gardimou	Clark Storage Coeffic	HR	37.85	38.335	-0.30
Gardimou	Clark Time of Concen	HR	50.3	110.96	0.26
Gardimou	Recession Constant		0.51	0.47041	0.41

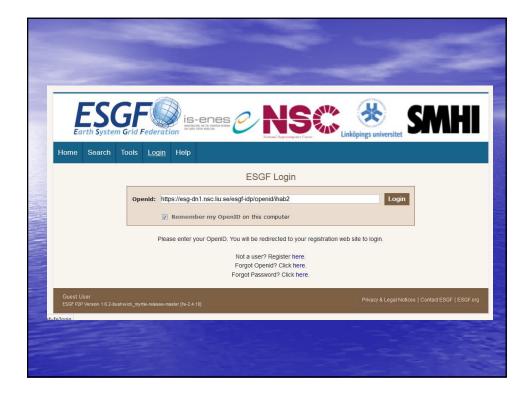








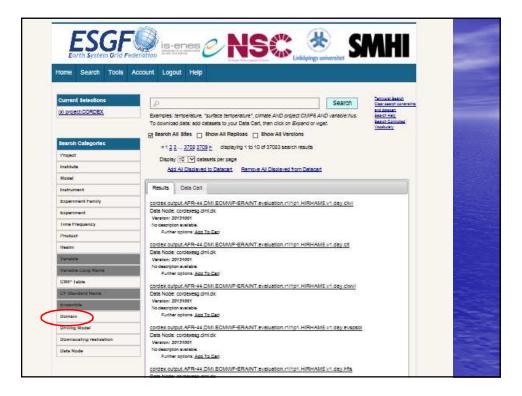




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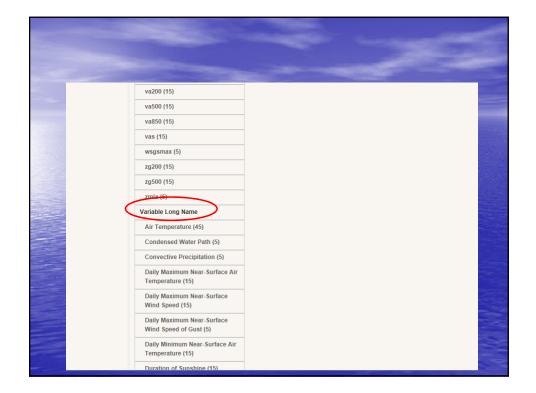
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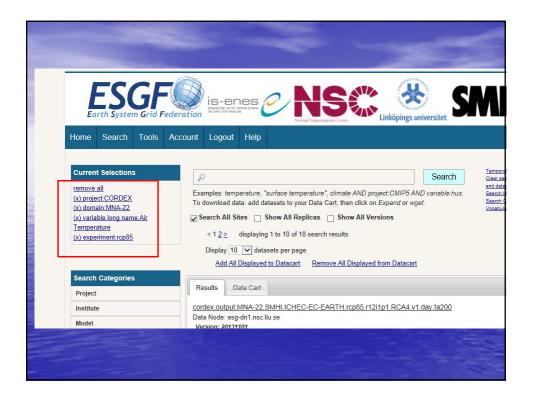
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Time Frequency	cordex.output.MNA-22.SMHI.ECMWF-ERAINT.evaluation.r1i1p1.RCA4.v1.d		
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Institute	cordex.output.MNA-22.SMHI.ICHEC-EC-EARTH.rcp85.r12i1p1.RCA4.v1.day.ta200
Model	Data Node: esg-dn1.nsc.liu.se Version: 20131101
Instrument	No description available.
Experiment Family	Further options: Add To Cart
	cordex.output.MNA-22.SMHI.ICHEC-EC-EARTH.rcp85.r12i1p1.RCA4.v1.day.ta500
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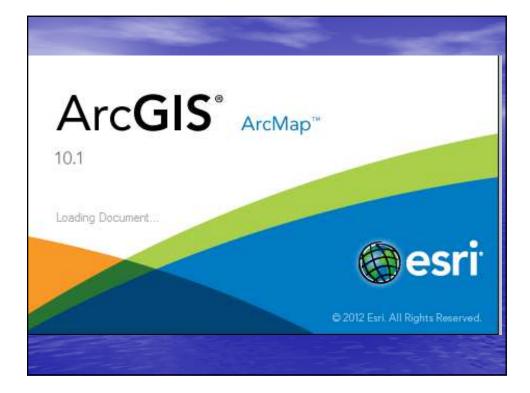
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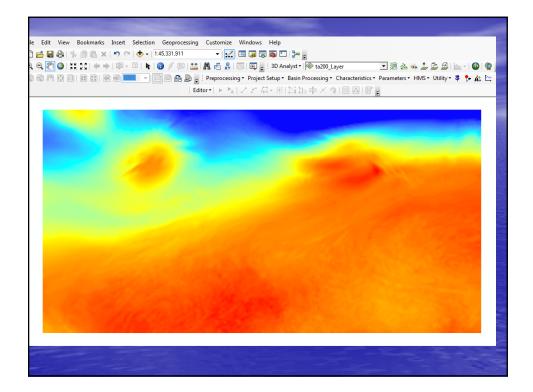
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Make NetCDF Raster Layer			
Input netCDF File D: E\dimate change\sida_escwa\watch rainfall data\data\1979\Rainf_daily_WFDEI_CRU_197903.nc\R Pariable Rainf   X Dimension Ion Y Dimension Iat Output Raster Layer Rainf_layer Band Dimension (optional)  Dimension Values (optional)  X			Input netCDF file.
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Make NetCDF Table View					2
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