

Appendix Z : Context Model Map

	Repository View (via the Subversion version control system)			Ontological Views (via a browser)	
<i>This is a listing of the context (Operational Environment, Terrain Characteristic), and Operating Mode that the component/system models are subjected to assess performance.</i>	File Location			Dynamic Context Server	OSCAR
Context Descriptions	Model Location	Documentation	Examples	URL (base http://localhost:3020)	Search Terms
Atmospheric Environment					
Air Properties					
Pressure	\Models\Composite\FluidThermal\src\stdAtmos1976.cpp \Models\Composite\FluidThermal\src\stdAtmos1976.h \Models\Composite\FluidThermal\src\stdAtmos1962.cpp \Models\Composite\FluidThermal\src\stdAtmos1962.h \Models\Composite\FluidThermal\src\idealGas0.cpp \Models\Composite\FluidThermal\src\idealGas0.h \Models\Composite\FluidThermal\src\hvac0.cpp \Models\Composite\FluidThermal\src\AR7038environ.h \Models\Composite\FluidThermal\src\AR7038environ.cpp \Models\Composite\FluidThermal\src\hvac0.h	\Models\Composite\FluidThermal\doc\name espace_AR7038Environment.doc \Models\Composite\FluidThermal\doc\name espace_HVAC.doc	\Models\Composite\Fluid Thermal\test\TempDrawd own	/context_atm/navigate	
Density	\Models\Composite\FluidThermal\src\stdAtmos1976.h \Models\Composite\FluidThermal\src\stdAtmos1962.cpp \Models\Composite\FluidThermal\src\stdAtmos1962.h \Models\Composite\FluidThermal\src\idealGas0.cpp \Models\Composite\FluidThermal\src\idealGas0.h \Models\Composite\FluidThermal\src\hvac0.cpp \Models\Composite\FluidThermal\src\hvac0.h	\Models\Composite\FluidThermal\doc\name espace_HVAC.doc	\Models\Composite\Fluid Thermal\test\TempDrawd own	/context_atm/navigate	
Moisture	\Models\Composite\FluidThermal\src\climateAR7038.cpp \Models\Composite\FluidThermal\src\climateAR7038.h \Models\Composite\FluidThermal\src\moistAirMix.cpp \Models\Composite\FluidThermal\src\moistAirMix.h \Models\Composite\FluidThermal\src\saturatedWater.cpp \Models\Composite\FluidThermal\src\saturatedWater.h	\Models\Composite\FluidThermal\doc\clas s_Climate_AR7038.doc \Models\Composite\FluidThermal\doc\clas s_moistAirMixture.doc \Models\Composite\FluidThermal\doc\name espace_HVAC.doc	\Models\Composite\Fluid Thermal\test\TempDrawd own	/context_climate_AR7038/navigate	

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Temperature (Arctic, Cold, Normal, Hot)	\Models\Composite\FuildThermal\src\stdAtmos1976.cpp \Models\Composite\FuildThermal\src\stdAtmos1976.h \Models\Composite\FuildThermal\src\stdAtmos1962.cpp \Models\Composite\FuildThermal\src\stdAtmos1962.h \Models\Composite\FuildThermal\src\idealGas0.cpp \Models\Composite\FuildThermal\src\idealGas0.h \Models\Composite\FuildThermal\src\hvac0.cpp \Models\Composite\FuildThermal\src\hvac0.h	\Models\Composite\FuildThermal\doc\class_Climate_AR7038.doc \Models\Composite\FuildThermal\doc\namespace_HVAC.doc	\Models\Composite\FuildThermal\test\TempDrawdown \Models\Composite\FuildThermal\test\ColdStart	/context_climate_AR7038/navigate	
Temperature (Locally Induced)	\Models\Composite\FuildThermal\src\ThermalComp.cpp \Models\Composite\FuildThermal\src\ThermalComp.h \Models\Composite\FuildThermal\src\ThermalLink.cpp \Models\Composite\FuildThermal\src\ThermalLink.h \Models\Atmospheric\properties\temperature\src\TempDiurnal.cpp \Models\Composite\FuildThermal\src\ThermalLink.h \Models\Composite\FuildThermal\src\ThermalNet.cpp \Models\Composite\FuildThermal\src\ThermalNet.h \Models\Composite\FuildThermal\src\diurnalCycle.h \Models\Composite\FuildThermal\src\diurnalCycle.cpp	\Models\Composite\FuildThermal\doc\class_ThermalNet.doc \Models\Composite\FuildThermal\doc\namespace_HVAC.doc	\Models\Composite\FuildThermal\test\ColdStart \Models\Atmospheric\properties\temperature\test\Thermometer	/context_select/navigate?category=thermal	
Atmospheric Features					
Wind	\Models\Composite\FuildThermal\src\AR7038environ.cpp \Models\Composite\FuildThermal\src\AR7038environ.h \Models\Composite\FuildThermal\src\climateAR7038.cpp \Models\Composite\FuildThermal\src\climateAR7038.h	\Models\Composite\FuildThermal\doc\class_Climate_AR7038.doc \Models\Composite\FuildThermal\doc\namespace_Climate_AR7038.doc	\Models\Composite\FuildThermal\test\TempDrawdown	/context_select/navigate?category=wind	
Solar Radiation	\Models\Composite\FuildThermal\src\AR7038environ.cpp \Models\Composite\FuildThermal\src\AR7038environ.h \Models\Composite\FuildThermal\src\climateAR7038.cpp \Models\Composite\FuildThermal\src\climateAR7038.h \Models\Composite\FuildThermal\src\solar_ASHRAE.cpp \Models\Composite\FuildThermal\src\solar_ASHRAE.h \Models\Composite\FuildThermal\src\solar_ASHRAE2009.cpp \Models\Composite\FuildThermal\src\solar_ASHRAE2009.h	\Models\Composite\FuildThermal\doc\class_Climate_AR7038.doc \Models\Composite\FuildThermal\doc\namespace_Climate_AR7038.doc \Models\Composite\FuildThermal\doc\class_solarLoad_ASHRAE.doc \Models\Composite\FuildThermal\doc\class_solarLoad_ASHRAE2009.doc	\Models\Composite\FuildThermal\test\TempDrawdown	/context_solar/navigate /context_climate_AR7038/navigate	
Contaminants					
Corrosive Components (Salt spray, SO ₂ , NO _x)				/context_select/navigate?category=corrosion	
Particulates (Dust, Sand, Volcanic Ash, Rain, Snow, Ice Crystals)	\Models\Composite\FuildThermal\src\AR7038environ.cpp \Models\Composite\FuildThermal\src\AR7038environ.h \Models\Composite\FuildThermal\doc\Example Filter Performance with Particle Size.xlsx	\Models\Composite\FuildThermal\doc\class_Climate_AR7038.doc \Models\Composite\FuildThermal\doc\namespace_Climate_AR7038.doc	\Models\Composite\FuildThermal\test\IntakeFilter	/context_select/navigate?category=particles	

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Electro Magnetic Interference (EMI)/ Electro Magnetic Pulse (EMP)				/context_select/navigate?category=clutter	
Land Environment					
Surface Characteristics					
Concrete	Obstacle surface material descriptions included in obstacle JSONs in \\Models\\Land\\obstacles\\data\\profiles\\ cross-reference with \\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml crg model files located in \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\crg-txt\\ cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx Terrain profile in \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\LogSpaced cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\terrains\\grades_slopes\\interface\\Modelica\\FrictionTerraincrawler.mo	search on "concrete"	search on "concrete"
Paved	Obstacle surface material descriptions included in obstacle JSONs in \\Models\\Land\\obstacles\\data\\profiles\\ cross-reference with \\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml crg model files located in \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\crg-txt\\ cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx Terrain profile in \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\LogSpaced cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\terrains\\grades_slopes\\interface\\Modelica\\FrictionTerraincrawler.mo	search on "paved"	search on "paved"

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Dirt	Obstacle surface material descriptions included in obstacle JSONs in \\Models\\Land\\obstacles\\data\\profiles\\ cross-reference with \\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml crg model files located in \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\crg-txt\\ cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx Terrain profile in \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\LogSpaced cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\obstacles\\data\\ObstacleMet adata.xml \\Models\\Land\\terrains\\grades_slopes\\data \\OpenCRG\\CRG metadata.xlsx \\Models\\Land\\terrains\\grades_slopes\\data \\WaveNumberSpectra Terrain PSD metadata.xlsx	\\Models\\land\\terrains\\gra des_slopes\\interface\\Mod elica\\FrictionTerraincrawl er.mo	search on "dirt" or "soil"	search on "dirt" or "soil"
Sand	Obstacle surface material descriptions included in obstacle JSONs in \\Models\\Land\\obstacles\\data\\profiles\\ cross-reference with \\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml crg model files located in \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\crg-txt\\ cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx Terrain profile in \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\LogSpaced cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\obstacles\\data\\ObstacleMet adata.xml \\Models\\Land\\terrains\\grades_slopes\\data \\OpenCRG\\CRG metadata.xlsx \\Models\\Land\\terrains\\grades_slopes\\data \\WaveNumberSpectra Terrain PSD metadata.xlsx	\\Models\\land\\terrains\\gra des_slopes\\interface\\Mod elica\\FrictionTerraincrawl er.mo	search on "sand" or "silt"	search on "sand" or "silt"
Wet	surface material descriptions included in obstacle JSONs in \\Models\\Land\\obstacles\\data\\profiles\\ cross-reference with \\Models\\Land\\obstacles\\data\\ObstacleMetadata.xml crg model files located in \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\crg-txt\\ cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\CRG metadata.xlsx Terrain Profile in \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\LogSpaced cross-reference with \\Models\\Land\\terrains\\grades_slopes\\data\\WaveNumberSpectra\\Terrain PSD metadata.xlsx	\\Models\\Land\\obstacles\\data\\ObstacleMet adata.xml \\Models\\Land\\terrains\\grades_slopes\\data \\OpenCRG\\CRG metadata.xlsx \\Models\\Land\\terrains\\grades_slopes\\data \\WaveNumberSpectra Terrain PSD metadata.xlsx	\\Models\\land\\terrains\\gra des_slopes\\interface\\Mod elica\\FrictionTerraincrawl er.mo	search on "wet" or "rain"	search on "wet" or "rain"

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Mud	<p>surface material descriptions included in obstacle JSONs in \Models\Land\obstacles\data\profiles\ cross-reference with \Models\Land\obstacles\data\ObstacleMetadata.xml crg model files located in \Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\ cross-reference with \Models\Land\terrains\grades_slopes\data\OpenCRG\CRG metadata.xlsx Terrain Profile in \Models\Land\terrains\grades_slopes\data\WaveNumberSpectra\LogSpaced cross-reference with \Models\Land\terrains\grades_slopes\data\WaveNumberSpectra\Terrain PSD metadata.xlsx</p>	\Models\Land\obstacles\data\ObstacleMet adata.xml \Models\Land\terrains\grades_slopes\data \OpenCRG\CRG metadata.xlsx \Models\Land\terrains\grades_slopes\data \WaveNumberSpectra Terrain PSD metadata.xlsx	\Models\land\terrains\gra des_slopes\interface\Mod elica\FrictionTerraincrawl er.mo	search on "mud" or "clay"	search on "mud" or "clay"
Snow	<p>surface material descriptions included in obstacle JSONs in \Models\Land\obstacles\data\profiles\ cross-reference with \Models\Land\obstacles\data\ObstacleMetadata.xml crg model files located in \Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\ cross-reference with \Models\Land\terrains\grades_slopes\data\OpenCRG\CRG metadata.xlsx Terrain profile in \Models\Land\terrains\grades_slopes\data\WaveNumberSpectra\LogSpaced cross-reference with \Models\Land\terrains\grades_slopes\data\WaveNumberSpectra\Terrain PSD metadata.xlsx</p>	\Models\Land\obstacles\data\ObstacleMet adata.xml \Models\Land\terrains\grades_slopes\data \OpenCRG\CRG metadata.xlsx \Models\Land\terrains\grades_slopes\data \WaveNumberSpectra Terrain PSD metadata.xlsx	\Models\land\terrains\gra des_slopes\interface\Mod elica\FrictionTerraincrawl er.mo	search on "snow"	search on "snow"
Ice	<p>surface material descriptions included in obstacle JSONs in \Models\Land\obstacles\data\profiles\ cross-reference with \Models\Land\obstacles\data\ObstacleMetadata.xml crg model files located in \Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\ cross-reference with \Models\Land\terrains\grades_slopes\data\OpenCRG\CRG metadata.xlsx Terrain profile in \Models\Land\terrains\grades_slopes\data\WaveNumberSpectra\LogSpaced cross-reference with \Models\Land\terrains\grades_slopes\data\WaveNumberSpectra\Terrain PSD metadata.xlsx</p>	\Models\Land\obstacles\data\ObstacleMet adata.xml \Models\Land\terrains\grades_slopes\data \OpenCRG\CRG metadata.xlsx \Models\Land\terrains\grades_slopes\data \WaveNumberSpectra Terrain PSD metadata.xlsx	\Models\land\terrains\gra des_slopes\interface\Mod elica\FrictionTerraincrawl er.mo	search on "ice"	search on "ice"

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Discrete Obstacles (Forward and Reverse, and at Angles)					
Step Climb	\Models\Land\obstacles\data\profiles\ATC_MTA_18InchWall.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_24InchWall.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_36InchWall.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_42InchWall.JSON	\Models\Land\obstacles\doc\Discrete_Obs tacles.pptx \Models\Land\obstacles\doc\Demo_Discre teObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\ Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMet adata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSp ectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "step" or "stair"
Step Descend	\Models\Land\obstacles\data\profiles\ATC_MTA_18InchWall.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_24InchWall.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_36InchWall.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_42InchWall.JSON	\Models\Land\obstacles\doc\Discrete_Obs tacles.pptx \Models\Land\obstacles\doc\Demo_Discre teObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\ Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMet adata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSp ectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "step" or "stair"
Gap Crossing	\Models\Land\obstacles\data\profiles\ATC_MTA_BridgingDeviceExit.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_BridgingDeviceEntry.JSON \Models\Land\obstacles\exec\DiscreteObstacle\ATC_Bridging_Device.txt \Models\Land\obstacles\exec\DiscreteObstacle\RunDiscreteObstacles.bat	\Models\Land\obstacles\doc\Discrete_Obs tacles.pptx \Models\Land\obstacles\doc\Demo_Discre teObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\ Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMet adata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSp ectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "gap"
V-Ditch	\Models\Land\obstacles\data\profiles\ATC_MTA_StandardDitch.JSON \Models\Land\obstacles\exec\AngleApproach\RunAngleApproach.bat	\Models\Land\obstacles\doc\Discrete_Obs tacles.pptx \Models\Land\obstacles\doc\Demo_Discre teObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\ Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMet adata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSp ectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "ditch"

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Half-Round	\Models\Land\obstacles\data\profiles\ATC_MTA_4_Inch_Half_Round.JSON \Models\Land\obstacles\data\profiles\YTC_MOUT_9inch_Half_Rounds.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_6_Inch_Half_Round.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_8_Inch_Half_Round.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_10_Inch_Half_Round.JSON \Models\Land\obstacles\data\profiles\ATC_MTA_12_Inch_Half_Round.JSON	\Models\Land\obstacles\doc\Discrete_Obstacles.pptx \Models\Land\obstacles\doc\Demo_DiscreteObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMetadata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "half-round"
Curb	\Models\Land\obstacles\data\profiles\YTC_MOUT_Curb.JSON	\Models\Land\obstacles\doc\Discrete_Obstacles.pptx \Models\Land\obstacles\doc\Demo_DiscreteObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMetadata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "curb"
Features found in MOUT (Military Operations in Urban Terrain)	\Models\Land\obstacles\data\profiles\YTC_MOUT_Staircase.JSON \Models\Land\obstacles\data\profiles\YTC_MOUT_9inch_Half_Rounds.JSON \Models\Land\obstacles\data\profiles\YTC_MOUT_Curb.JSON \Models\Land\obstacles\data\profiles\YTC_MOUT_Log.JSON \Models\Land\obstacles\data\profiles\YTC_MOUT_Washboard.JSON	\Models\Land\obstacles\doc\Discrete_Obstacles.pptx \Models\Land\obstacles\doc\Demo_DiscreteObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMetadata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "mout"
Jersey Barrier (Highway Divider)	\Models\Land\obstacles\data\profiles\Jersey_Barrier_inset.JSON \Models\Land\obstacles\data\profiles\Jersey_Barrier_whole.JSON	\Models\Land\obstacles\doc\Discrete_Obstacles.pptx \Models\Land\obstacles\doc\Demo_DiscreteObstaclesPitchPlane.docx \Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx \Models\Land\obstacles\data\ObstacleMetadata.xlsx	\Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "jersey"

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Improvised Obstacles (e.g., passenger cars)	See MOUT	Models\Land\obstacles\doc\Discrete_Obstacles.pptx Models\Land\obstacles\doc\Demo_DiscreteObstaclesPitchPlane.docx Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx Models\Land\obstacles\data\ObstacleMetadata.xlsx	Models\Land\obstacles\test\PitchPlaneModel Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles Models\Land\obstacles\src\DiscreteObstacles	/context_obstacles/navigate	search on "mout"
Terrains					
Terrains of varying roughness (Flat to 5" in rms)	TC_Belgian_Block_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Churchville_B_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Churchville_C_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Munson_Gravel_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Perryman_1_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Perryman_2_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Perryman_3_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\ATC_Perryman_A_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\YTC_Desert_March_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\YTC_KOFA_Level_Gravel_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\YTC_Laguna_Hilly_Trails_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\YTC_Laguna_Level_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\YTC_Laguna_Level_Trails_East_logspaced.JSON Models\Land\terrains\grades_slopes\data\WaveNumberSpectral\LogSpaced\Y	Models\Land\terrains\grades_slopes\doc\Spectra_Courses.pptx Models\Land\terrains\grades_slopes\doc\Demo_DrvLmtdSpdSptr.docx Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx Models\Land\terrains\grades_slopes\doc\Demo_RunSixWattStandAlone.docx Models\Land\terrains\grades_slopes\data\WaveNumberSpectral Terrain PSD metadata.xlsx	Models\Land\terrains\grades_slopes\RunDrvLmtdSpdSptr.bat Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles Models\Land\terrains\grades_slopes\RunSixWattStandAlone.bat Models\Land\terrains\grades_slopes\test\SpectralTerrainGeneratorApp Models\Land\terrains\grades_slopes\tools\TerrainServer Models\Land\terrains\grades_slopes\tools\UnityRoadExperiments	/context_psd_workflow/navigate	search "PSD"

Appendix Z : Context Model Map

Longitudinal Grades (Forward and Reverse)	\Models\Land\obstacles\data\profiles\ATC_10%SoilSlope.JSON \Models\Land\obstacles\data\profiles\ATC_15%SoilSlope.JSON \Models\Land\obstacles\data\profiles\ATC_20%SoilSlope.JSON \Models\Land\obstacles\data\profiles\ATC_25%SoilSlope.JSON \Models\Land\obstacles\data\profiles\ATC_60%SoilSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA5%AsphaltSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA10%AsphaltSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA15%AsphaltSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA20%AsphaltSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA30%ConcreteSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA40%ConcreteSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA45%ConcreteSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA50%ConcreteSlope.JSON \Models\Land\obstacles\data\profiles\ATC_MTA60%ConcreteSlope.JSON	\Models\Land\obstacles\doc\Discrete_Obstacles.pptx \Models\Land\terrains\grades_slopes\doc\Demo_Fuel_Efficiency.docx \Models\Land\terrains\grades_slopes\doc\Demo_DriverSpectraNObstacles.docx	\Models\Land\terrains\grades_slopes\test\Fuel_Efficiency \Models\Land\obstacles\test\PitchPlaneModel \Models\Land\terrains\grades_slopes\test\DriverSpectraNObstacles \Models\Land\obstacles\src\DiscreteObstacles \Models\Land\terrains\grades_slopes\tools\TerrainServer \Models\Land\terrains\grades_slopes\tools\Unity\RoadExperiments	/context_obstacles/navigate	search "slope"
Side-to-Side Slopes (Either side up-hill)	\Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\ATC_20pctSideSlope.crg \Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\ATC_30pctSideSlope.crg \Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\ATC_40pctSideSlope.crg \Models\Land\obstacles\data\profiles\ATC_40%SoilSideSlope.JSON \Models\Land\obstacles\data\profiles\ATC_30%SoilSideSlope.JSON	\Models\Land\terrains\grades_slopes\data\	\Models\Land\terrains\grades_slopes\test\Amphibious3DVehicle \Models\Land\terrains\grades_slopes\tools\TerrainServer \Models\Land\terrains\grades_slopes\tools\Unity\RoadExperiments	/context_obstacles/navigate	search "slope"
Combined Grade and Slope (Fore-Aft and Side-to-Side)	\Models\Land\terrains\grades_slopes\data\OpenCRG\crg-txt\Fictitious_slopebank.crg	\Models\Land\terrains\grades_slopes\data\	\Models\Land\terrains\grades_slopes\test\Amphibious3DVehicle \Models\Land\terrains\grades_slopes\tools\TerrainServer \Models\Land\terrains\grades_slopes\tools\Unity\RoadExperiments	/context_obstacles/navigate	search "slope"

Appendix Z : Context Model Map

Curvature (Turns, Crown, Trough)	\\Models\\Land\\terrains\\grades_slopes\\data\\OpenCRG\\crg- txt\\Fictitious_Turning_Course.crg	\\Models\\Land\\terrains\\grades_slopes\\data\\	\\Models\\Land\\terrains\\grades_slopes\\test\\Amphibio us3DVehicle \\Models\\Land\\terrains\\grades_slopes\\tools\\Terrain Server \\Models\\Land\\terrains\\grades_slopes\\tools\\Unity\\R oadExperiments	/context_obstacles/navigate	search "turn"
Aquatic Environment					
Water Properties					
Density	\\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.h \\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.cpp \\Models\\Aquatic\\properties\\buoyancy\\amphibious-context-model.xlsx	\\Models\\Composite\\FluidThermal\\doc\\Sea water_Property_Tables.pdf \\Models\\Composite\\FluidThermal\\src\\class)SeaWaterTPProps.docx	\\Models\\Composite\\Fluid Thermal\\test\\HeatExchan ger	/context_select/navigate?categ ory=wave	
Temperature				/context_select/navigate?categ ory=wave	
Viscosity	\\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.h \\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.cpp	\\Models\\Composite\\FluidThermal\\doc\\Sea water_Property_Tables.pdf \\Models\\Composite\\FluidThermal\\src\\class)SeaWaterTPProps.docx	\\Models\\Composite\\Fluid Thermal\\test\\HeatExchan ger	/context_select/navigate?categ ory=wave	
Thermal Conductivity	\\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.h \\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.cpp	\\Models\\Composite\\FluidThermal\\doc\\Sea water_Property_Tables.pdf \\Models\\Composite\\FluidThermal\\src\\class)SeaWaterTPProps.docx	\\Models\\Composite\\Fluid Thermal\\test\\HeatExchan ger	/context_physical/navigate	
Specific Heat	\\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.h \\Models\\Composite\\FluidThermal\\src\\seaWaterTPProps.cpp	\\Models\\Composite\\FluidThermal\\doc\\Sea water_Property_Tables.pdf \\Models\\Composite\\FluidThermal\\src\\class)SeaWaterTPProps.docx	\\Models\\Composite\\Fluid Thermal\\test\\HeatExchan ger	/context_physical/navigate	
Water Body Features					
Depth/Area				/context_select/navigate?categ ory=lakes /context_select/navigate?categ ory=wave	
Calm	\\Models\\Aquatic\\features\\calm\\src\\drag\\	\\Models\\Aquatic\\features\\calm\\doc\\waterMobility.pptx		search "calm"	
Surf	\\Models\\Aquatic\\features\\surf\\tools\\Unity\\SurfShore \\Models\\Aquatic\\features\\surf\\exec\\SurfToShore		\\Models\\Aquatic\\features\\ surf\\tools\\Unity\\SurfShore \\Models\\Aquatic\\features\\ surf\\exec\\SurfToShore	search "surf"	

Appendix Z : Context Model Map

Currents				/context_fording/navigate	
Sea-State	\svn\Models\Aquatic\features\sea_state\src\PotentialFlowSea\PotentialFlowSea.cpp \svn\Models\Aquatic\features\sea_state\src\PotentialFlowSea\PotentialFlowSea.h	Models\Aquatic\features\sea_state\doc\Aq	\svn\Models\Aquatic\features\sea_state\test\PotentialFlowSeaApp	/context_select/navigate?category=wave	
Contaminants					
Salt	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx - see all .xlsx files and Summary	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx - see all .xlsx files and Summary	/context_water/navigate	
Particulates (Sand, Volcanic Ash)	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx - see all .xlsx files and Summary	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx - see all .xlsx files and Summary	/context_select/navigate?category=particles	
Debris (Vegetation, Spills)	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx - see all .xlsx files and Summary	Models\Aquatic\properties\buoyancy\amphibious-context-model.xlsx - see all .xlsx files and Summary	search "vegetation" or "debris" /context_friction/coefficient_friction_table /context_water/densities	