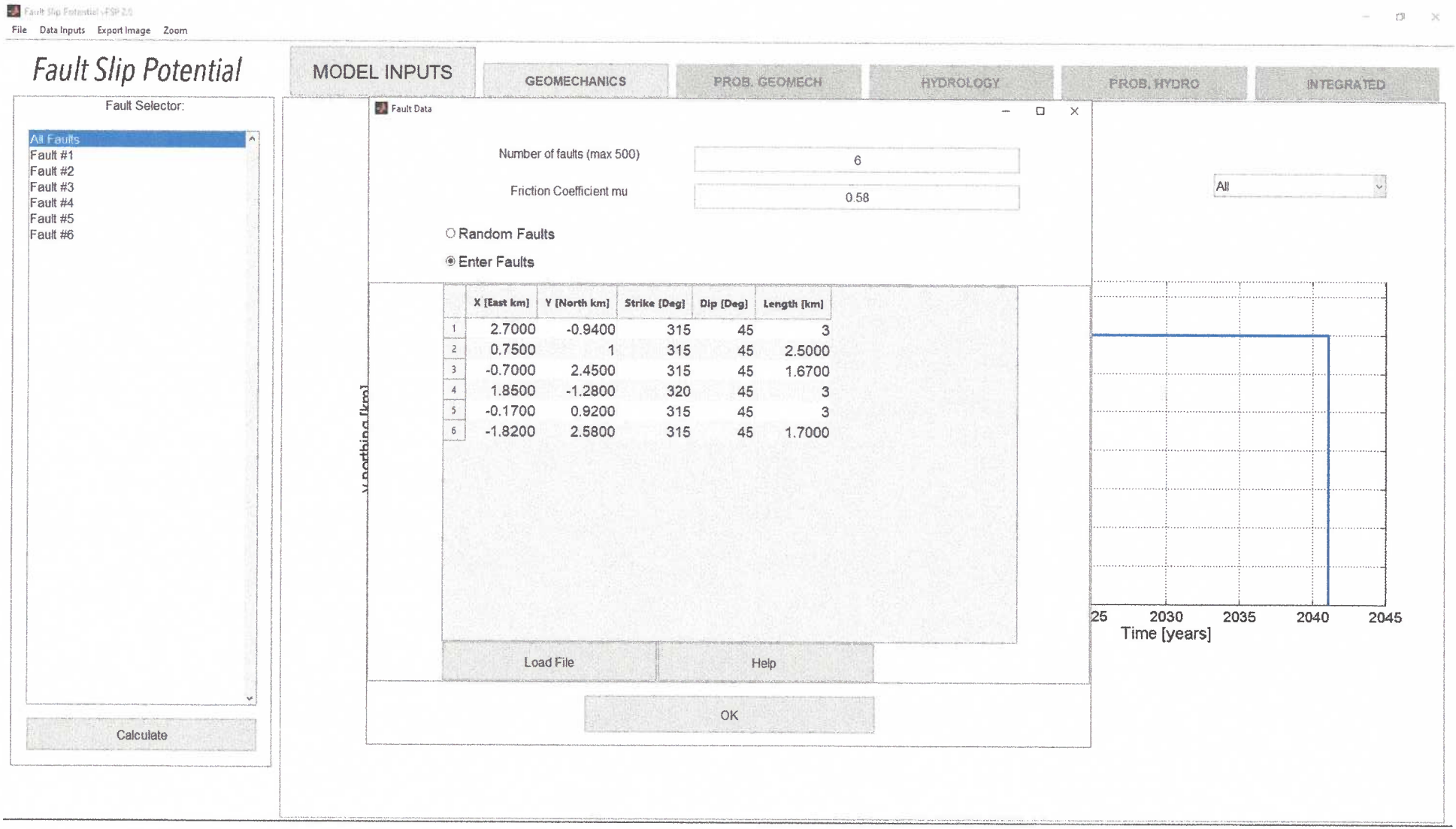
Additional Information

Additional FSP Modeling 2/17/21


Fault Slip Potential (FSP 2.0)
File
Data Inputs
Export Image
Zoom
Fault Slip Potential
MODEL INPUTS
GEOMECHANICS
PROB. GEOMECH
HYDROLOGY
PROB. HYDRO
INTEGRATED
Fault Selector:
All Faults
Fault #1
Fault #2
Fault #3
Fault #4
Fault #5
Fault #6
Calculate
Fault Data
Number of faults (max 500)
6
Friction Coefficient mu
0.58
Random Faults
Enter Faults
X [East km]
Y [North km]
Strike [Deg]
Dip [Deg]
Length [km]
1 2.7000 -0.9400 315 45 3
2 0.7500 1 315 45 2.5000
3 -0.7000 2.4500 315 45 1.6700
4 1.8500 -1.2800 320 45 3
5 -0.1700 0.9200 315 45 3
6 -1.8200 2.5800 315 45 1.7000
Load File
Help
OK
All
2025
2030
2035
2040
2045
Time [years]

Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

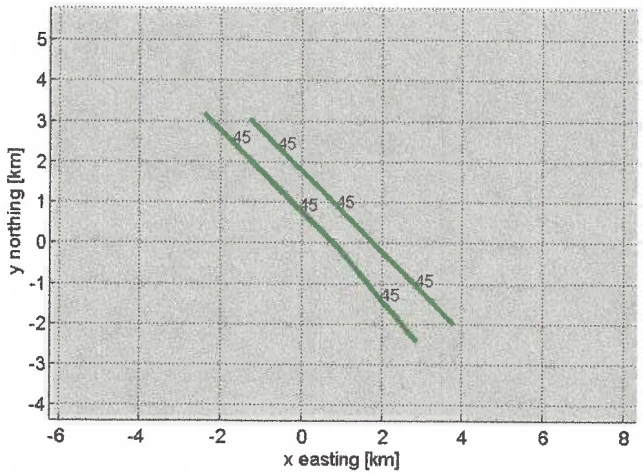
Fault Selector:

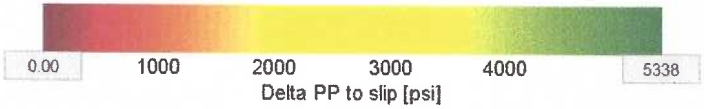
All Faults
Fault #1
Fault #2
Fault #3
Fault #4
Fault #5
Fault #6

Calculate

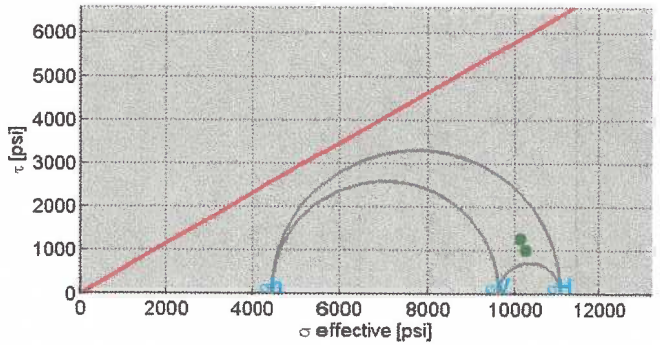
b) Fault Dip

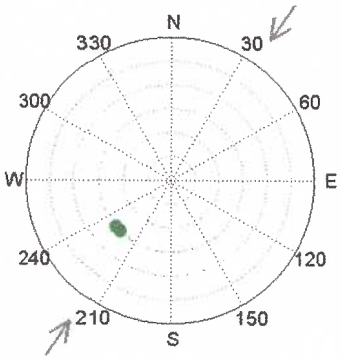
Help





Stress Regime: Strike-Slip Faulting





Stereonet Show: Fault Normals

Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

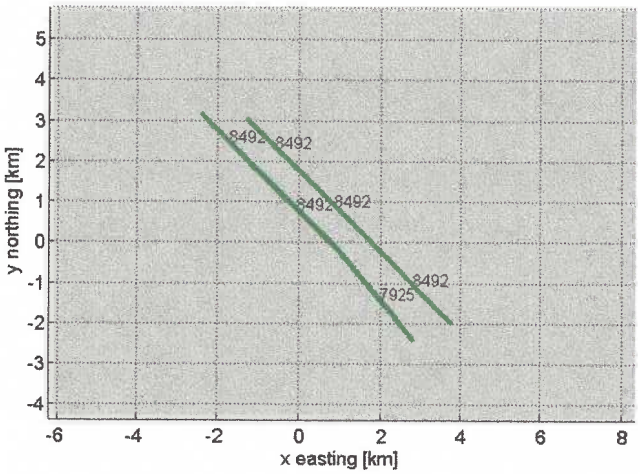
Fault Selector:

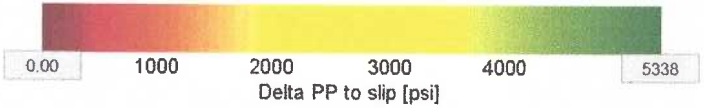
All Faults

Calculate

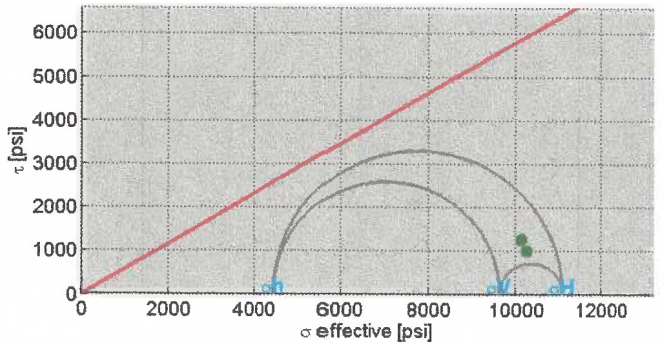
d) PPF: Pore Pressure to Slip

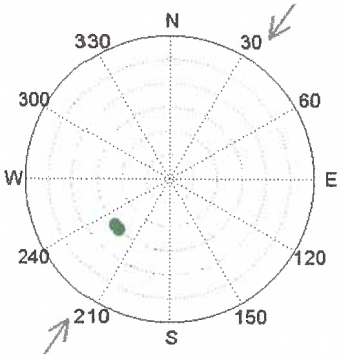
Help





Stress Regime: Strike-Slip Faulting





Stereonet Show: Fault Normals

Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

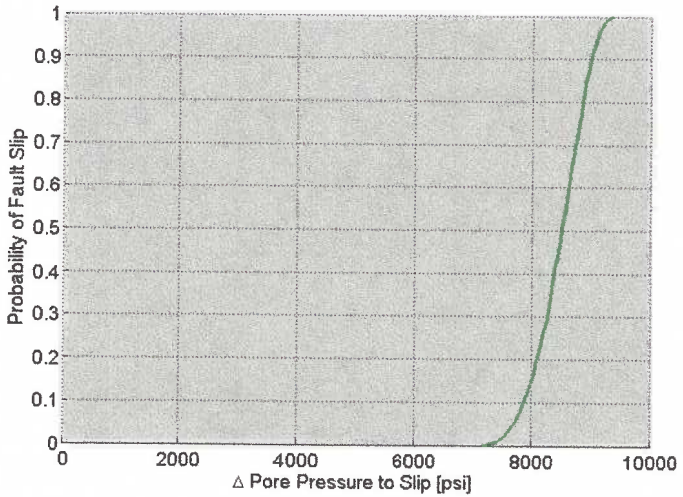
Fault Selector:

All Faults

Fault #1

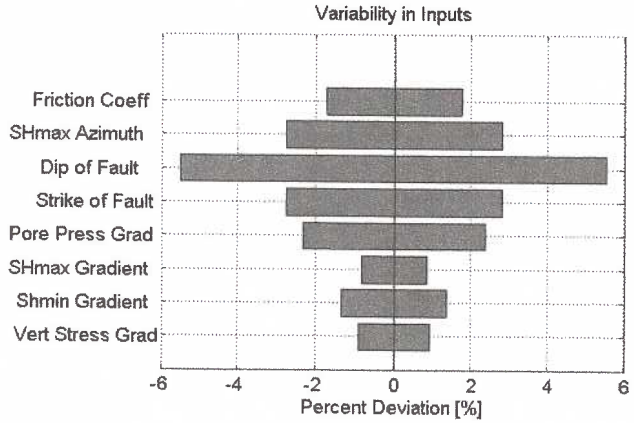
Calculate

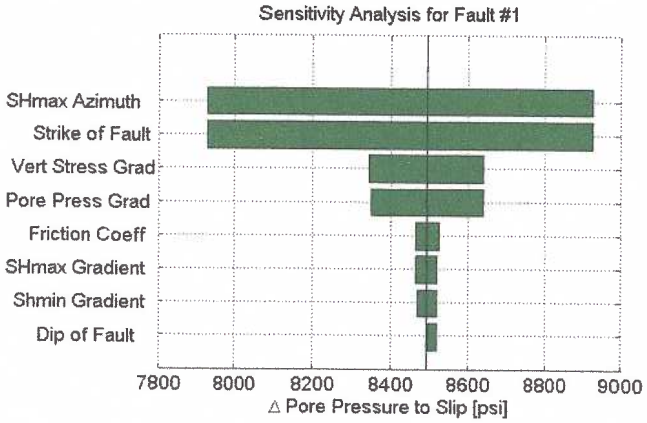
Load Distributions | Run Analysis



Max Delta PP [psi]: 10000

Export CDF data | Show Input Distributions





Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

Fault Selector:

All Faults

Fault #1

Fault #2

Fault #3

Fault #4

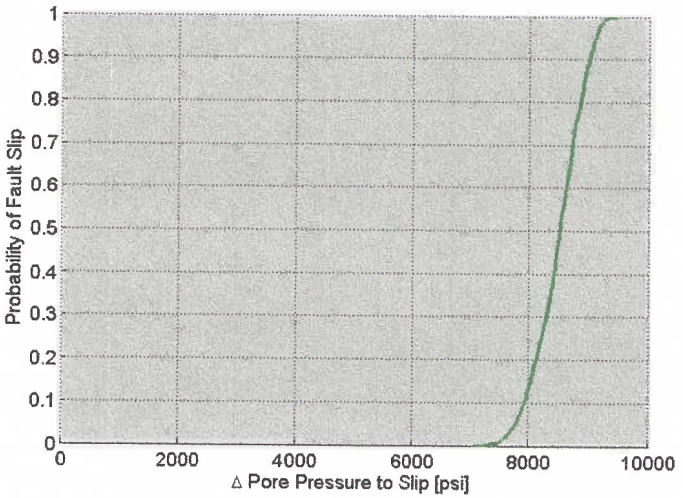
Fault #5

Fault #6

Calculate

Load Distributions

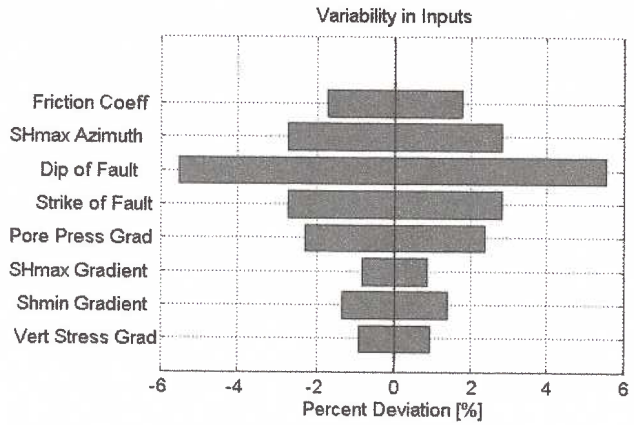
Run Analysis

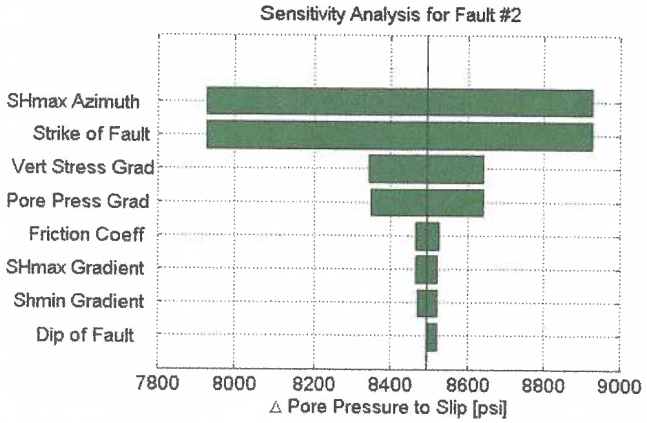


Max Delta PP [psi]: 10000

Export CDF data

Show Input Distributions





Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

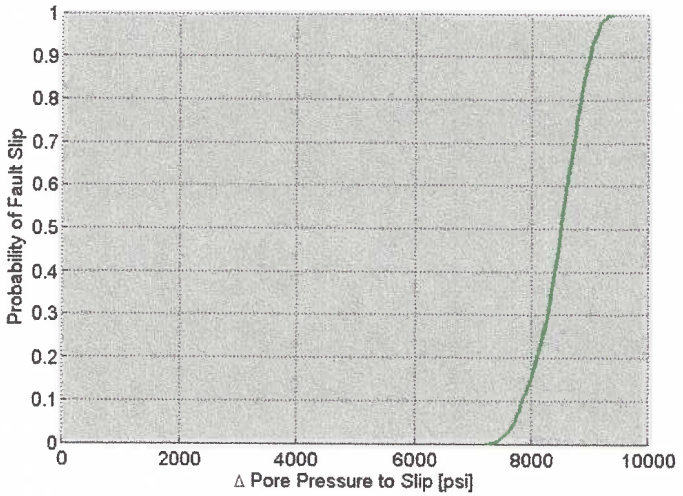
MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

Fault Selector:

All Faults
Fault #1
Fault #2
Fault #3
Fault #4
Fault #5
Fault #6

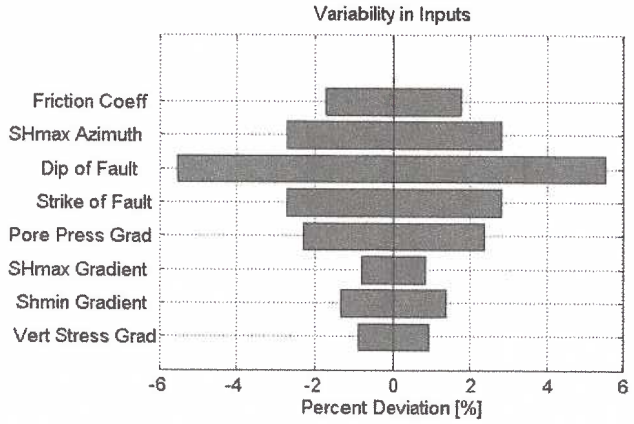
Calculate

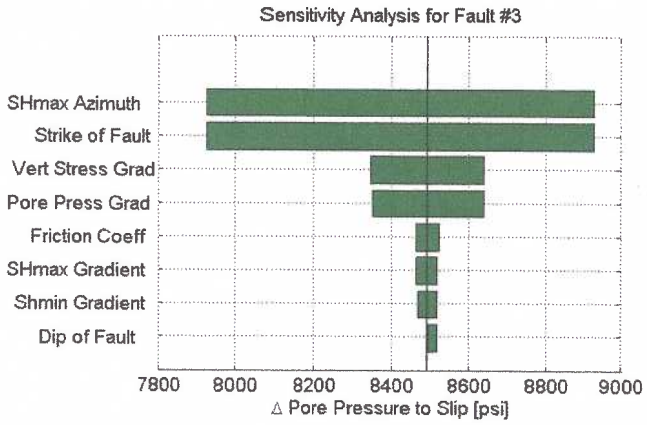
Load Distributions | Run Analysis



Max Delta PP [psi]: 10000

Export CDF data | Show Input Distributions





Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

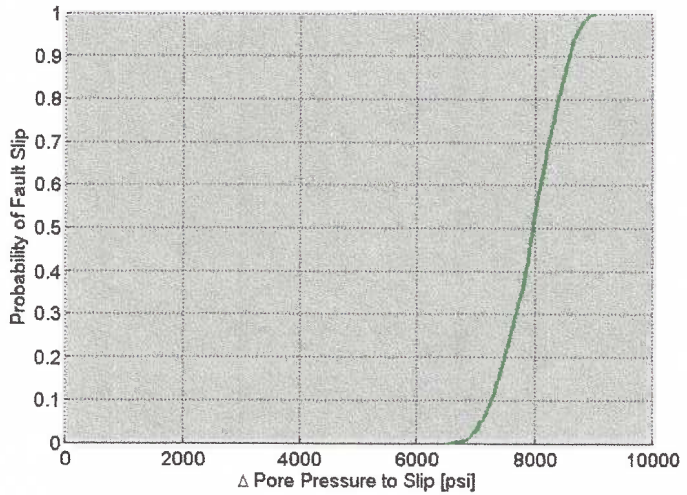
Fault Selector:

All Faults

Fault #1
Fault #2
Fault #3
Fault #4
Fault #5
Fault #6

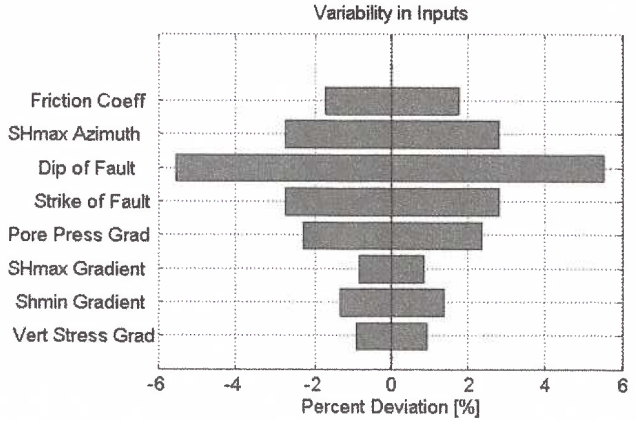
Calculate

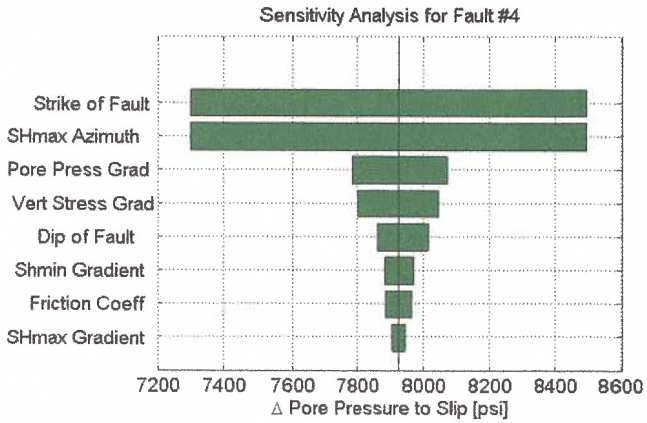
Load Distributions | Run Analysis



Max Delta PP [psi]: 10000

Export CDF data | Show Input Distributions





Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

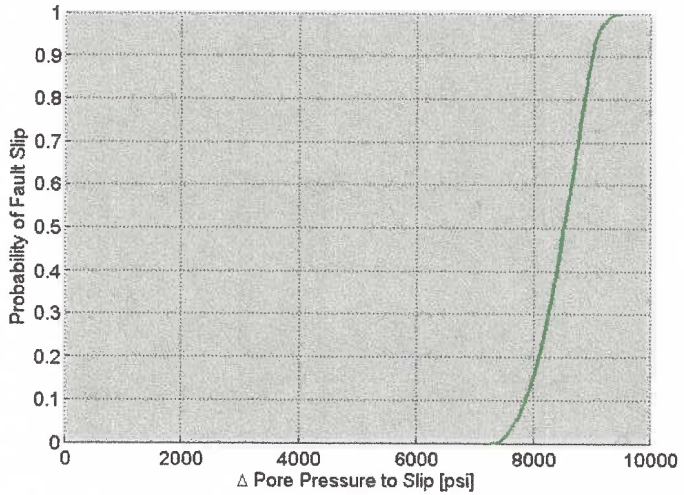
MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

Fault Selector:

All Faults
Fault #1
Fault #2
Fault #3
Fault #4
Fault #5
Fault #6

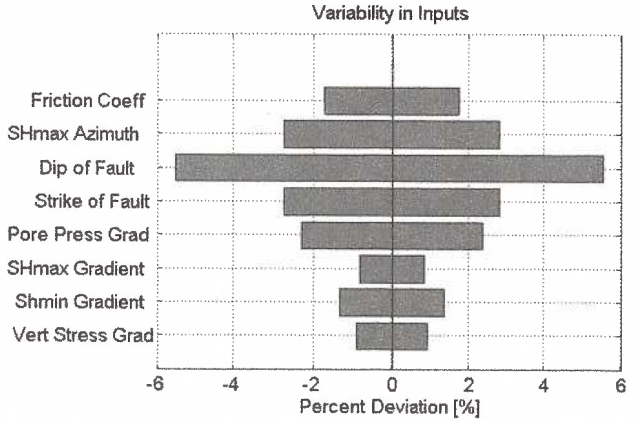
Calculate

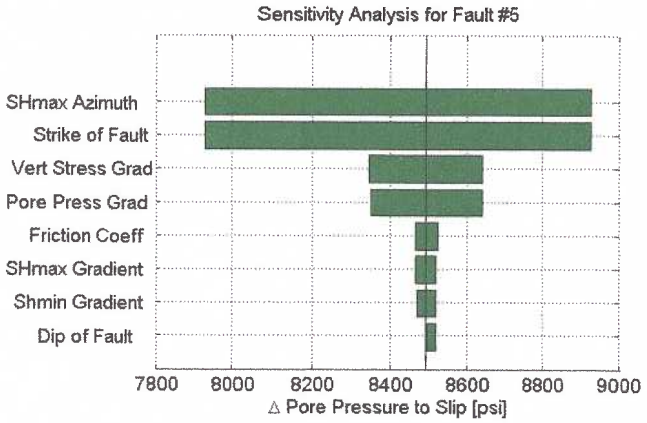
Load Distributions | Run Analysis



Max Delta PP [psi]: 10000

Export CDF data | Show Input Distributions





Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

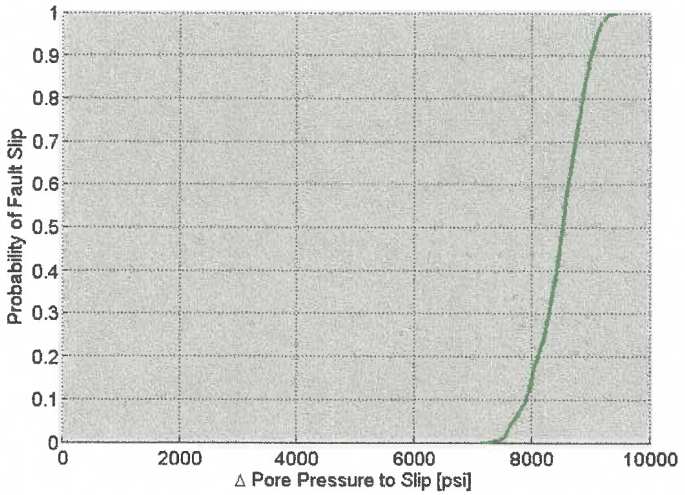
MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

Fault Selector:

All Faults
Fault #1
Fault #2
Fault #3
Fault #4
Fault #5
Fault #6

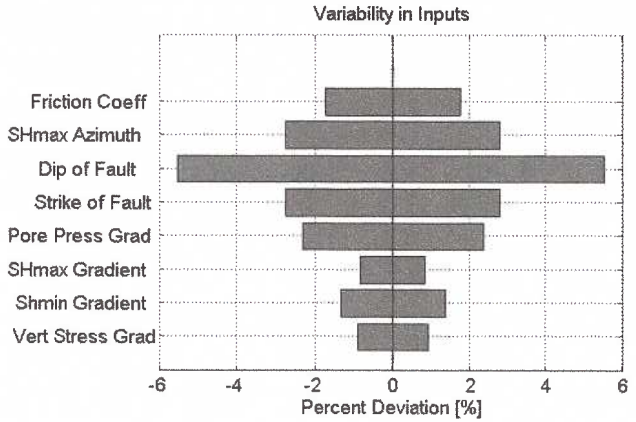
Calculate

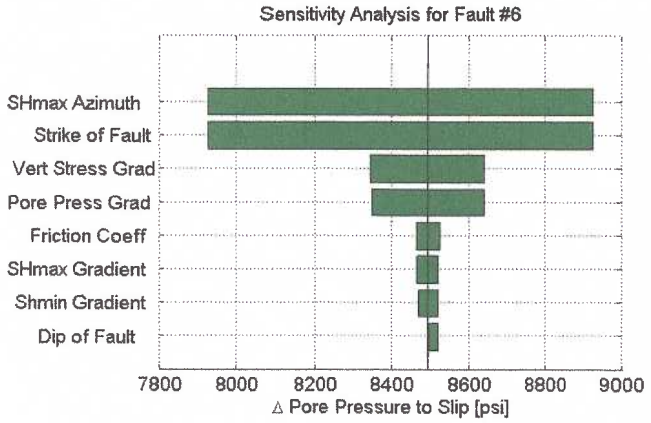
Load Distributions | Run Analysis



Max Delta PP [psi]: 10000

Export CDF data | Show Input Distributions





Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

Fault Selector:

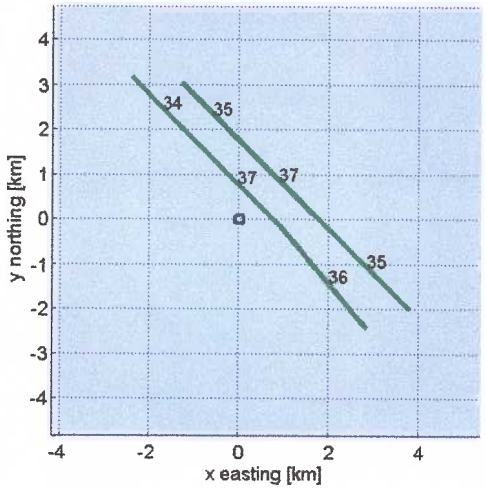
All Faults
Fault #1, 0.00 FSP
Fault #2, 0.00 FSP
Fault #3, 0.00 FSP
Fault #4, 0.00 FSP
Fault #5, 0.00 FSP
Fault #6, 0.00 FSP

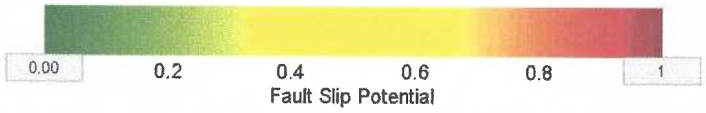
Calculate

b) PP Change at fault [psi]

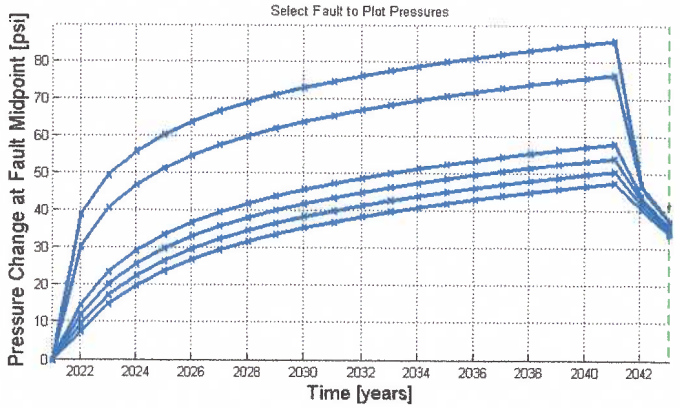
Summary Plots

Export

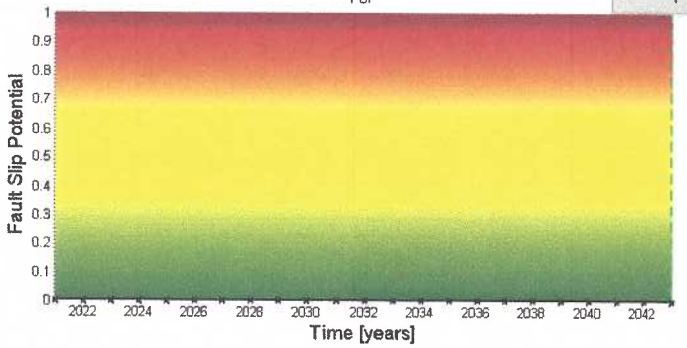




Year: 2043



Export



Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

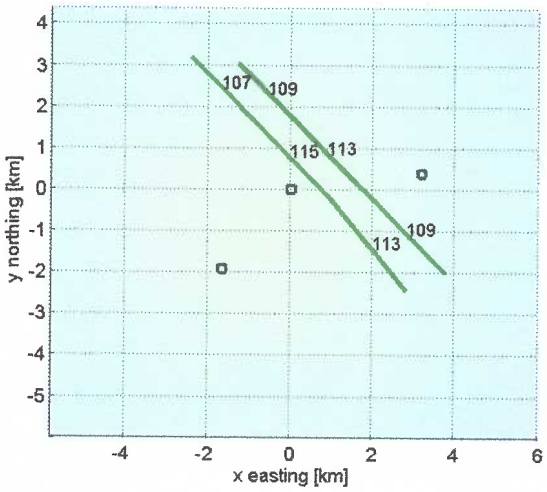
Fault Selector:

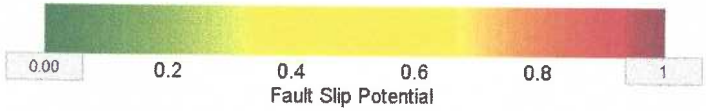
All Faults
Fault #1: 0.00 FSP
Fault #2: 0.00 FSP
Fault #3: 0.00 FSP
Fault #4: 0.00 FSP
Fault #5: 0.00 FSP
Fault #6: 0.00 FSP

Calculate

b) PP Change at fault [psi]

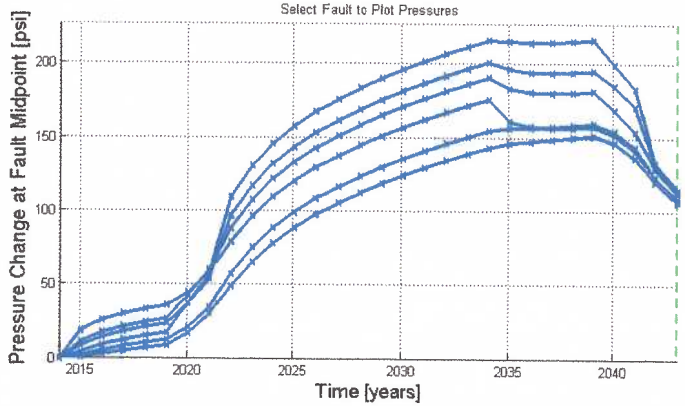
Summary Plots



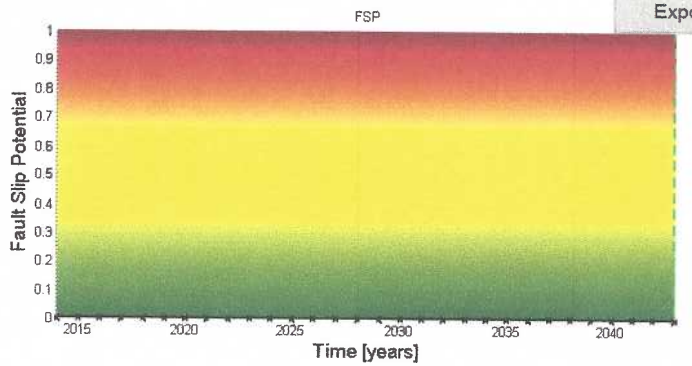


Year: 2043

Export



Export



Fault Slip Potential vFSP 2.0

File Data Inputs Export Image Zoom

Fault Slip Potential

MODEL INPUTS | GEOMECHANICS | PROB. GEOMECH | HYDROLOGY | PROB. HYDRO | INTEGRATED

Fault Selector:

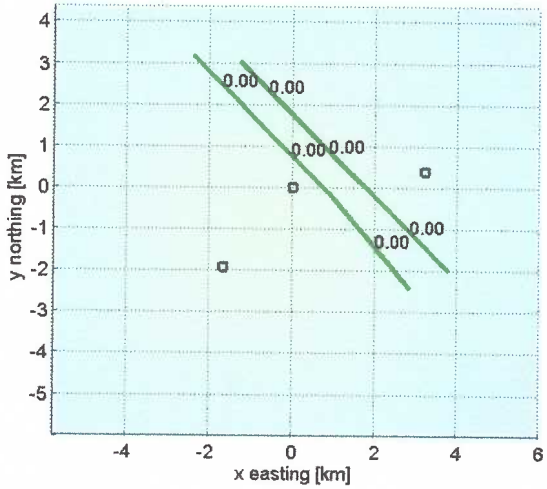
All Faults
Fault #1 0.00 FSP
Fault #2 0.00 FSP
Fault #3 0.00 FSP
Fault #4 0.00 FSP
Fault #5 0.00 FSP
Fault #6 0.00 FSP

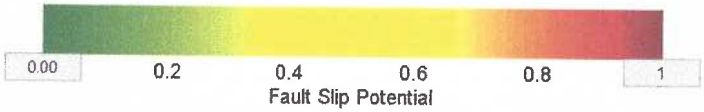
Calculate

c) Fault Slip Potential

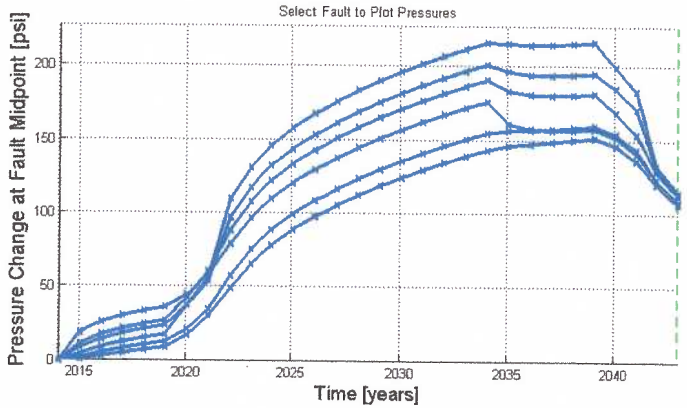
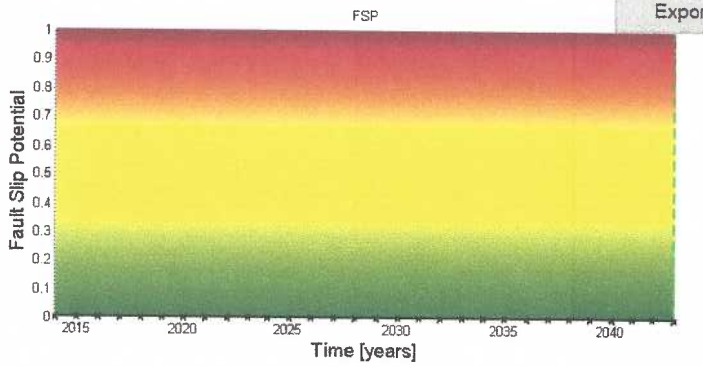
Export

Summary Plots





Year: 2043



Export