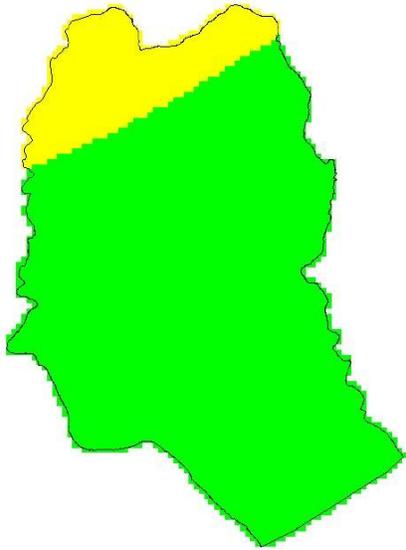


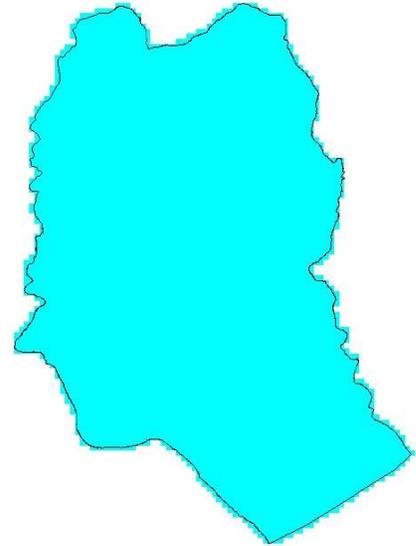
PGA at Engineering Seismic Baserock ($V_{s30}=760$ m/sec) in Dhaka



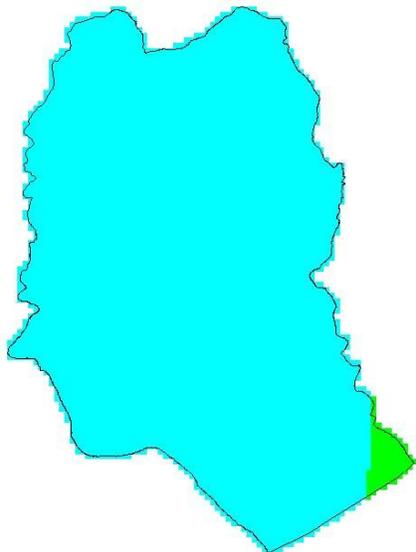
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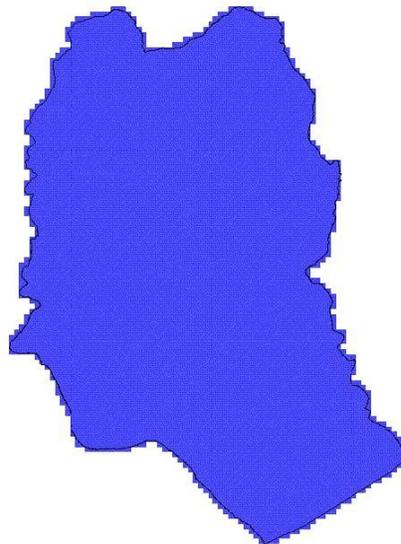
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PBF-1

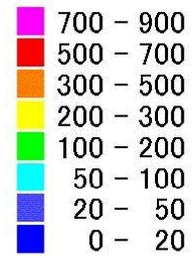


PBF-2

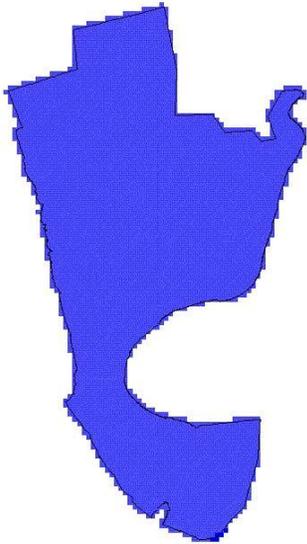


PBF-3

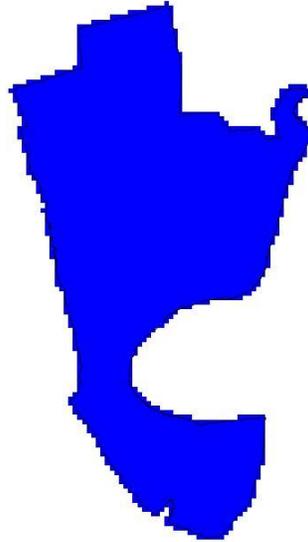
PGA (gal)



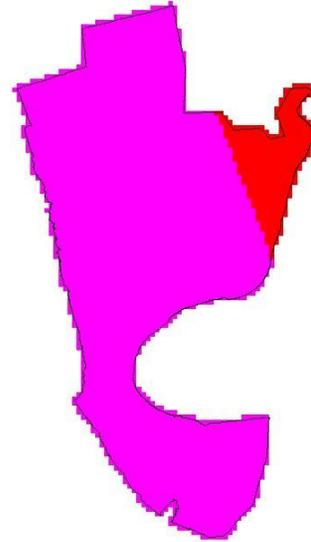
PGA at Engineering Seismic Baserock ($V_{s30}=760$ m/sec) in Chittagong



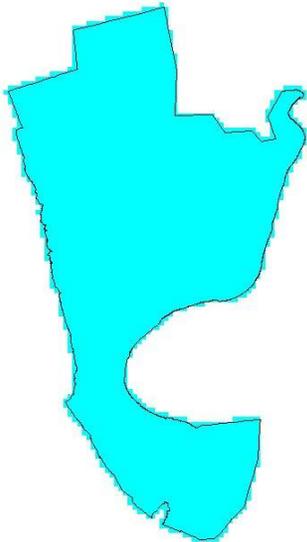
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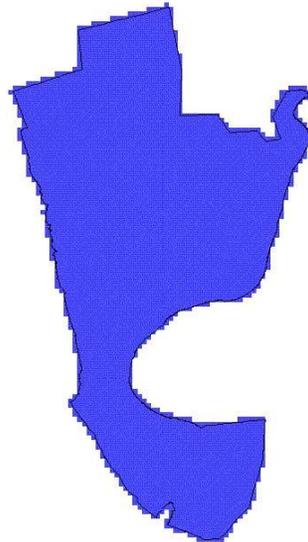
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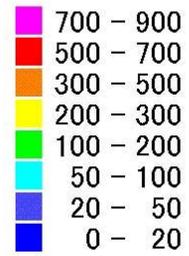


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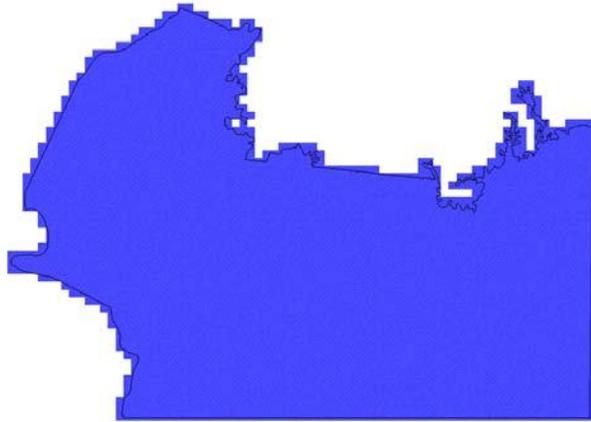


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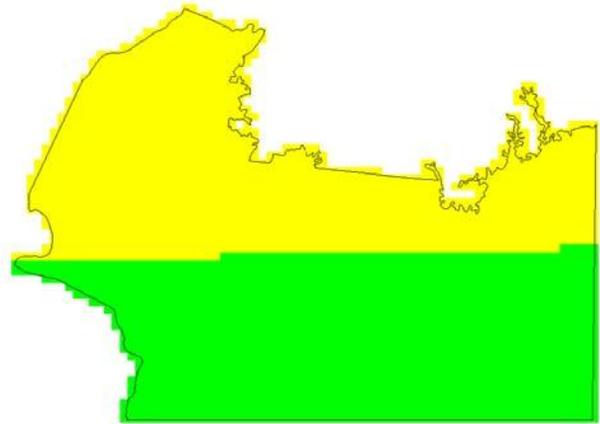
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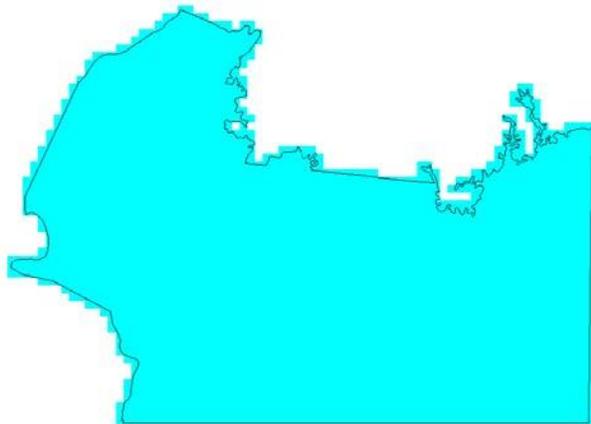
PGA at Engineering Seismic Baserock ($V_{s30}=760$ m/sec) in Sylhet



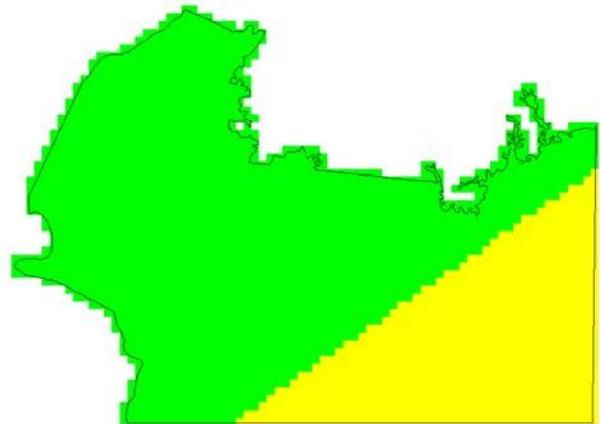
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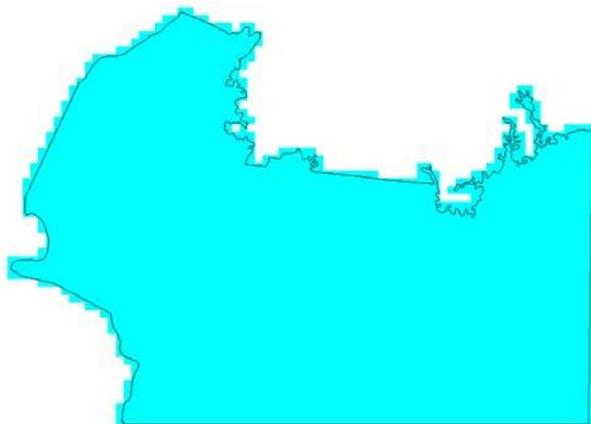
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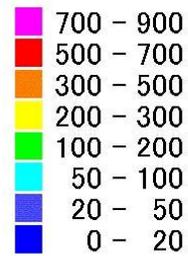


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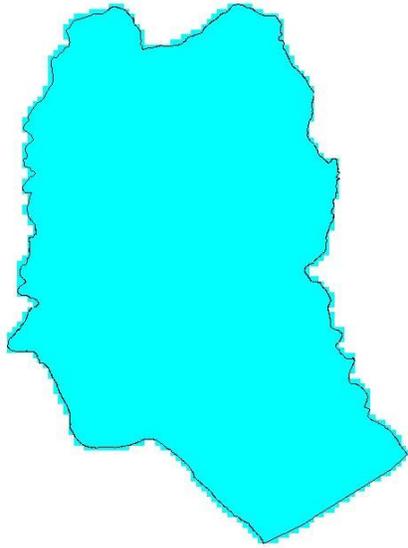


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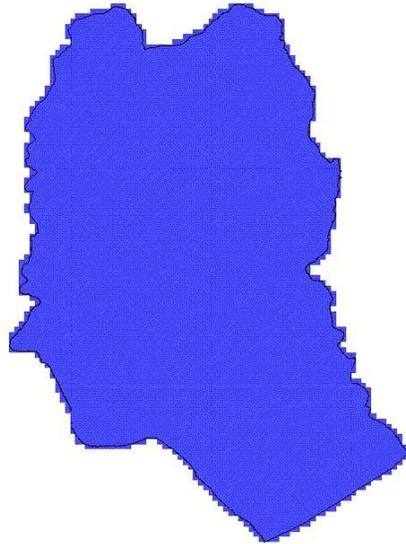
PGA (gal)



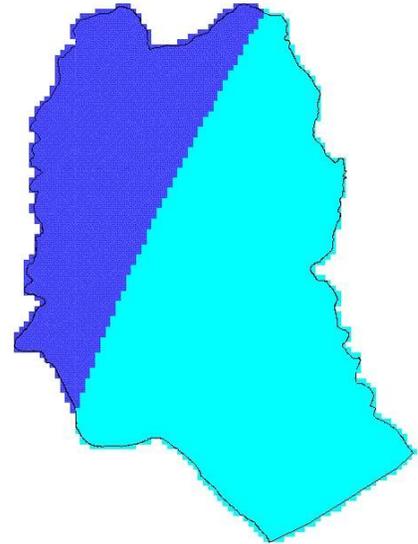
PGV at Engineering Seismic Baserock ($V_{s30}=760$ m/sec) in Dhaka



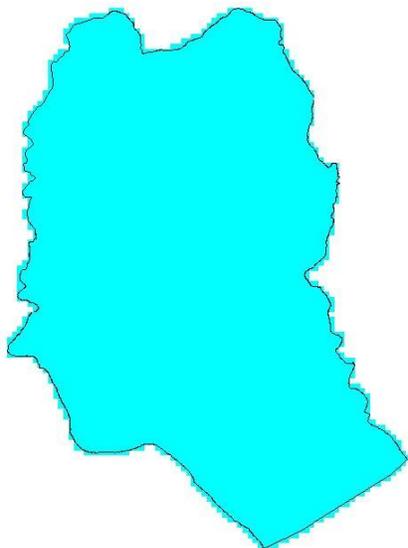
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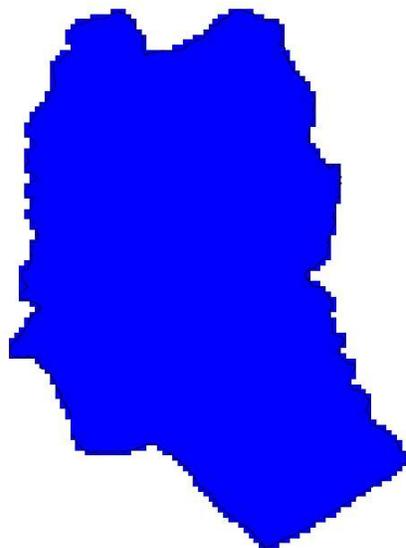
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PBF-1

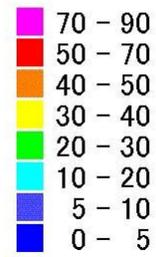


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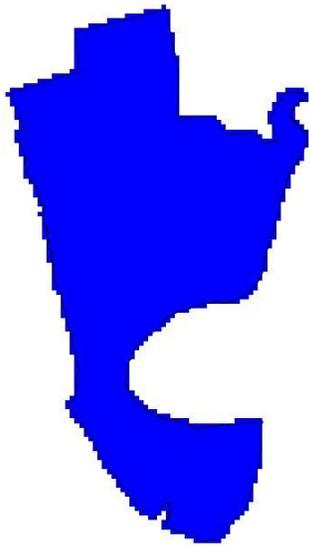


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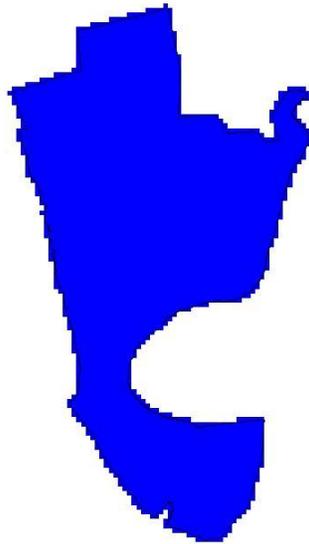
PGV (kine)



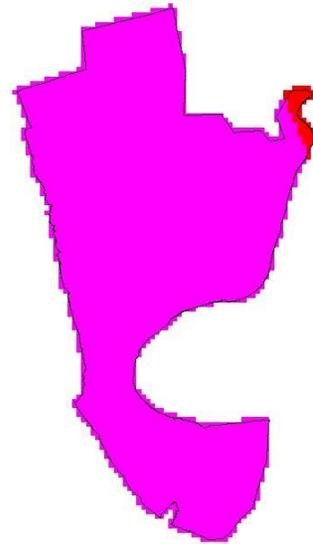
PGV at Engineering Seismic Baserock ($V_{s30}=760$ m/sec) in Chittagong



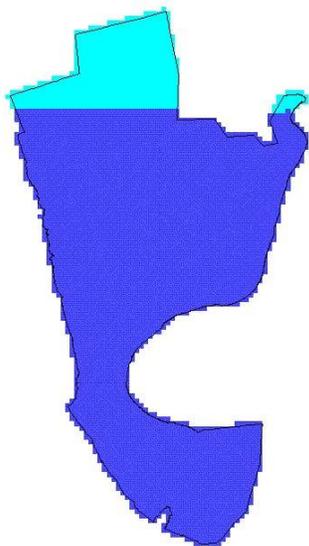
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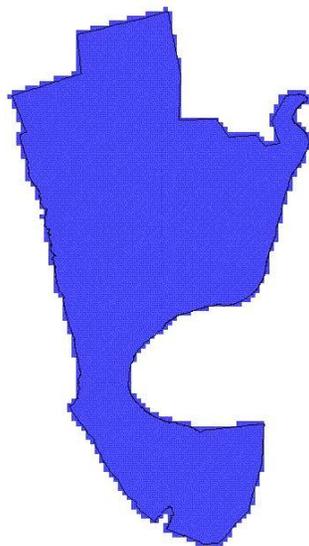
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PBF-1

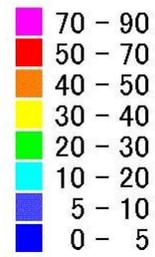


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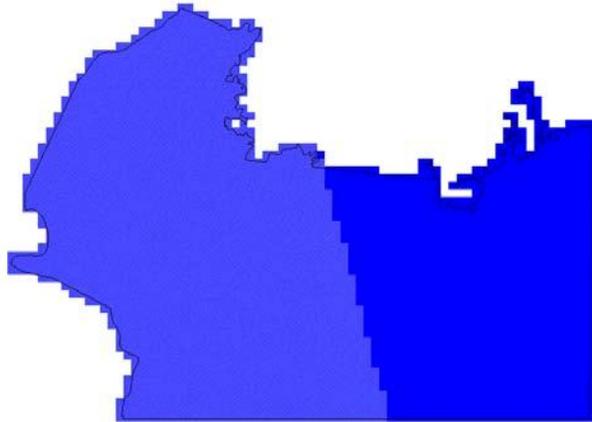


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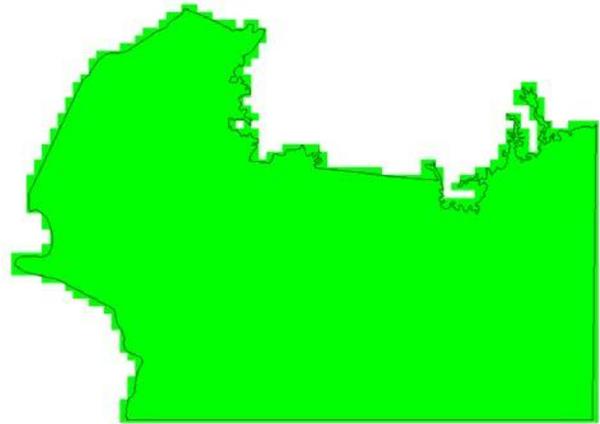
PGV (kine)



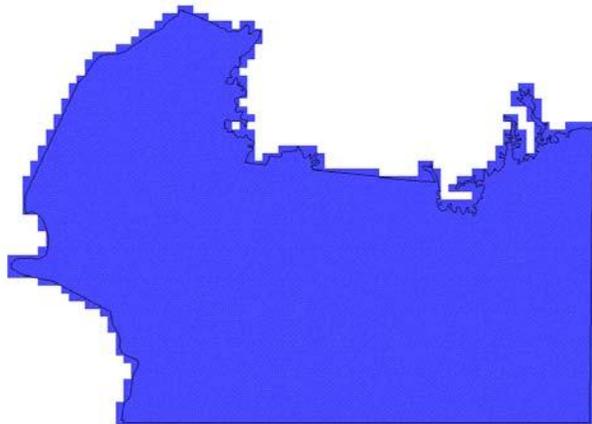
PGV at Engineering Seismic Baserock ($V_{s30}=760$ m/sec) in Sylhet



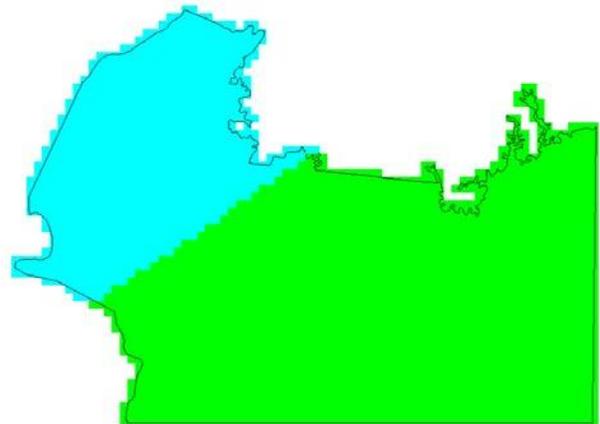
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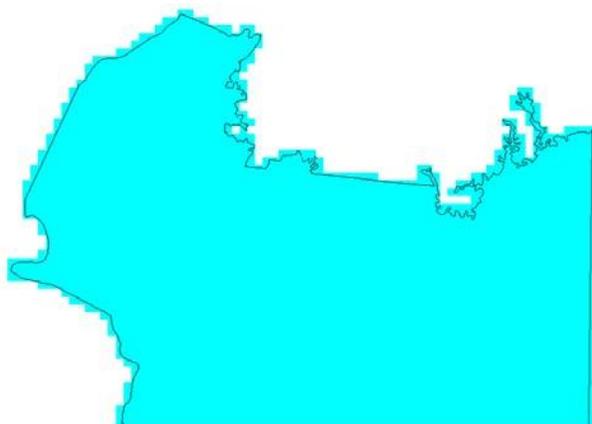
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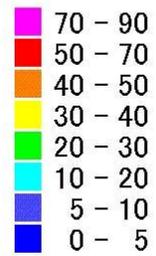


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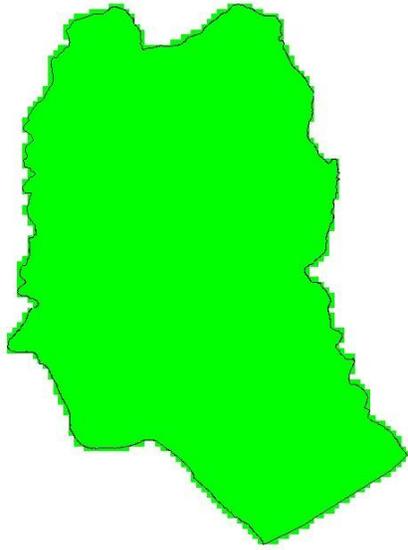


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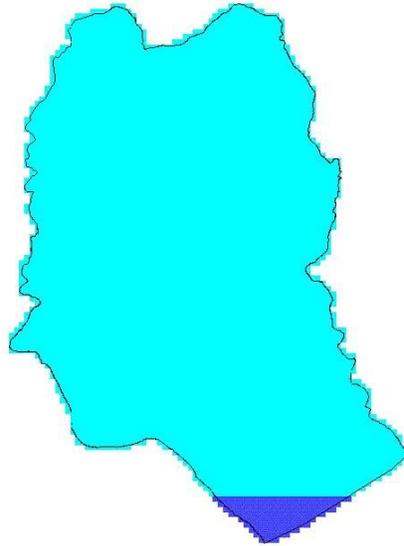
PGV (kine)



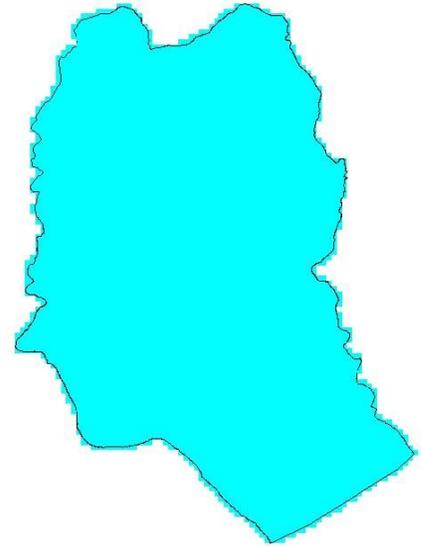
Sa (h=5%) for T=0.3 sec at Engineering Seismic Baserock (Vs30=760 m/sec) in Dhaka



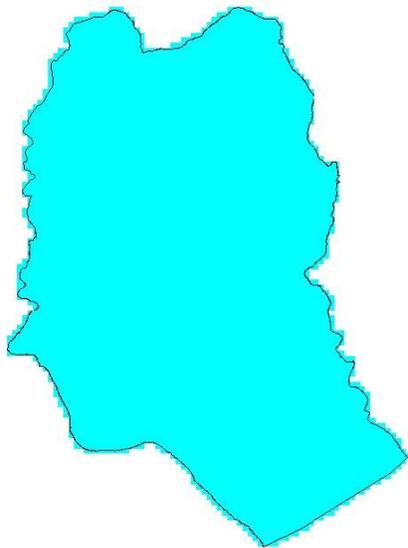
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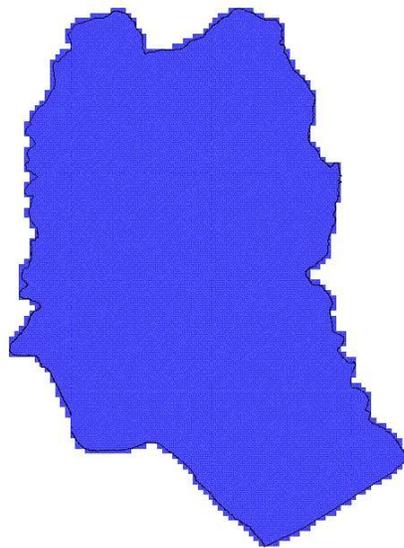
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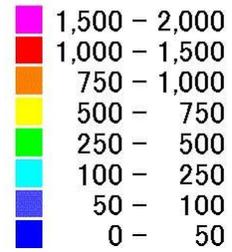


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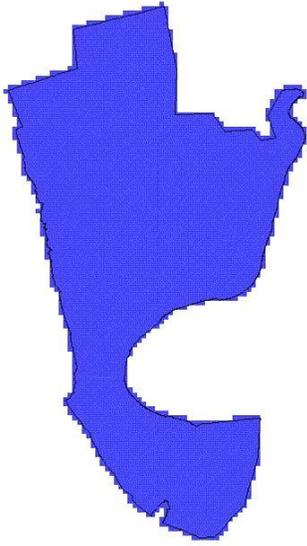


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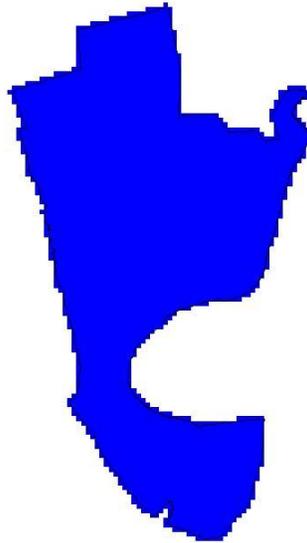
Sa(h=5%) (gal)



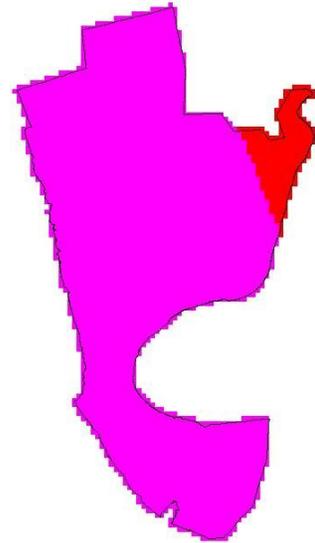
Sa (h=5%) for T=0.3 sec at Engineering Seismic Baserock (Vs30=760 m/sec) in Chittagong



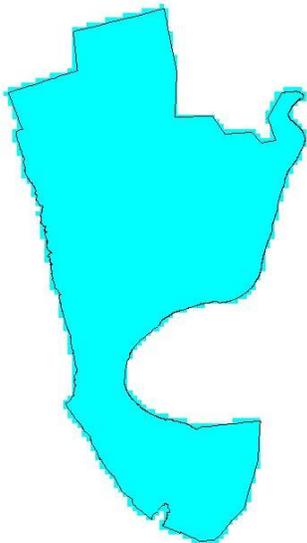
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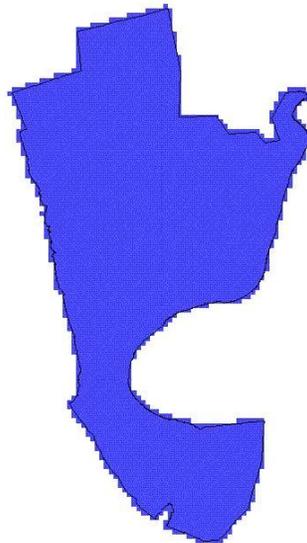
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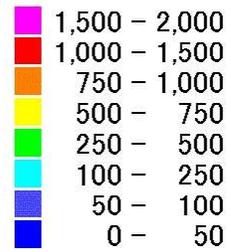


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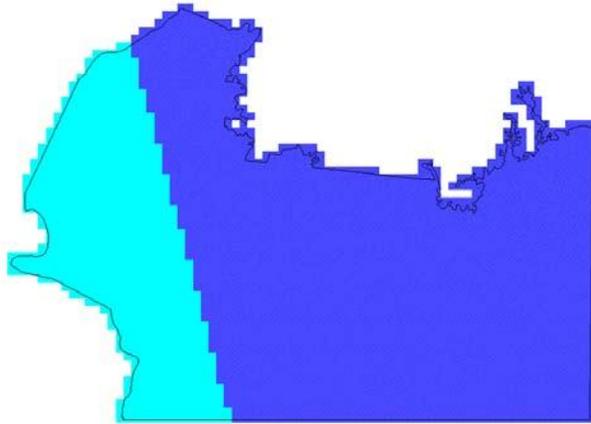


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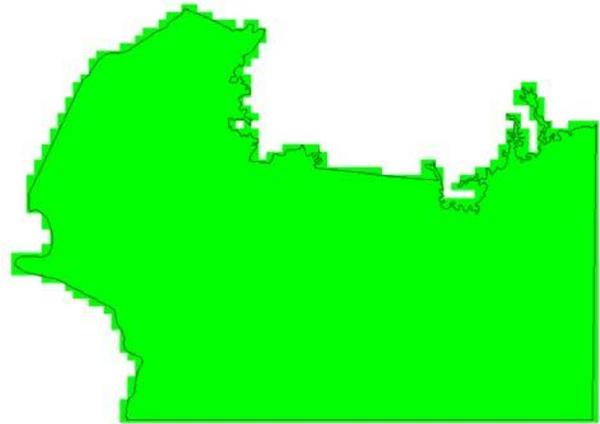
Sa(h=5%) (gal)



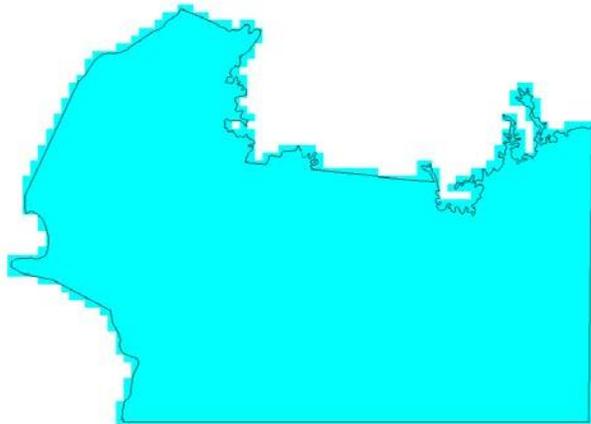
Sa (h=5%) for T=0.3 sec at Engineering Seismic Baserock (Vs30=760 m/sec) in Sylhet



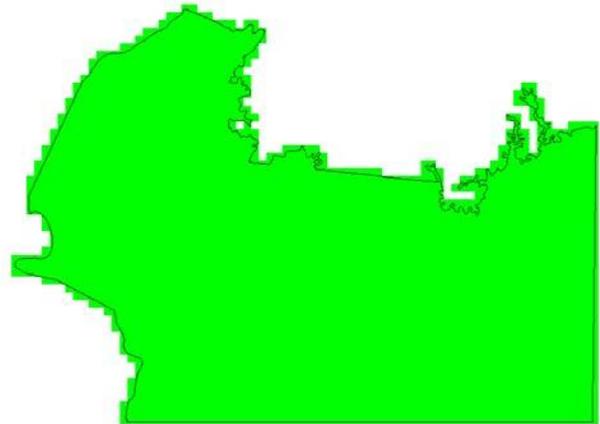
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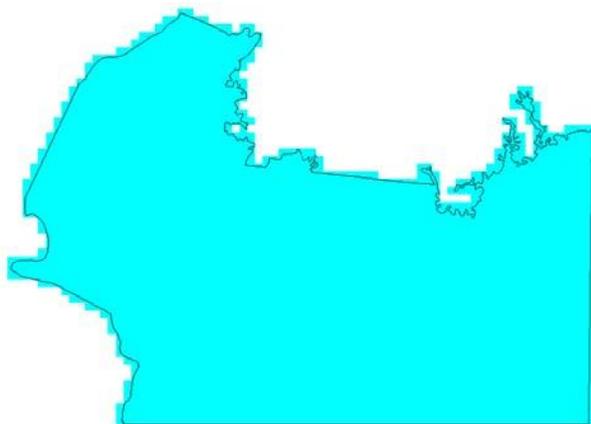
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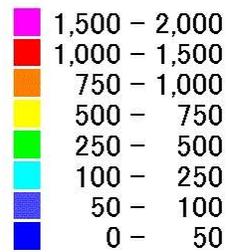


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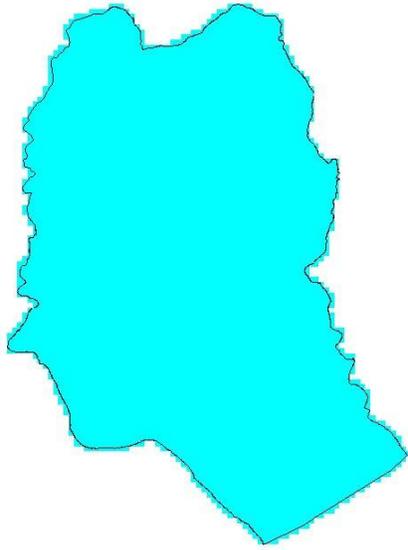


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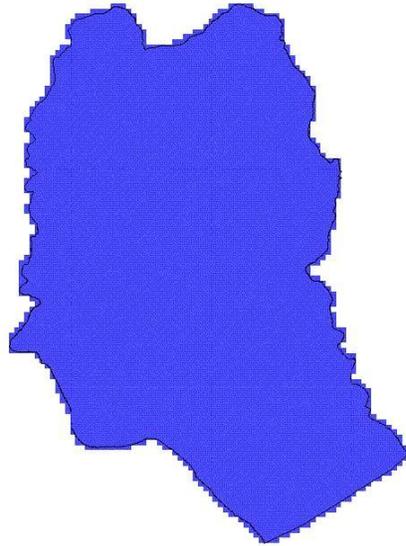
Sa(h=5%) (gal)



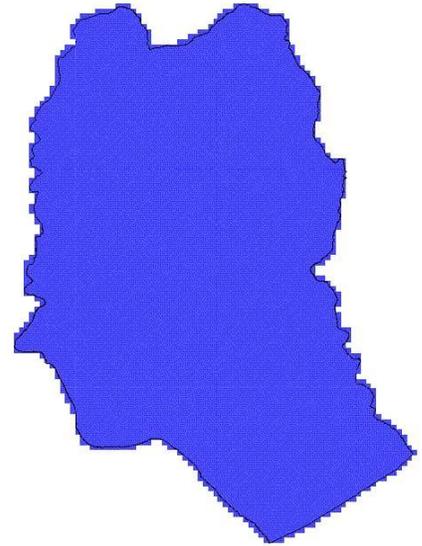
Sa (h=5%) for T=1.0 sec at Engineering Seismic Baserock (Vs30=760 m/sec) in Dhaka



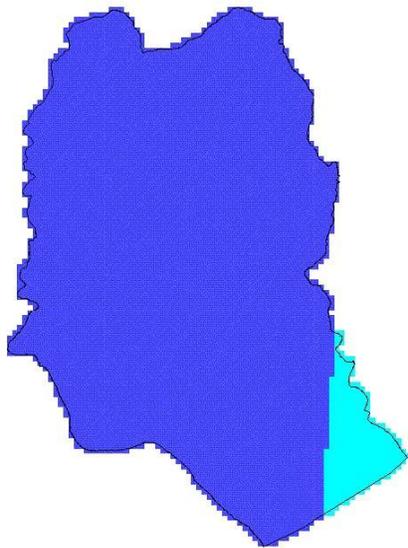
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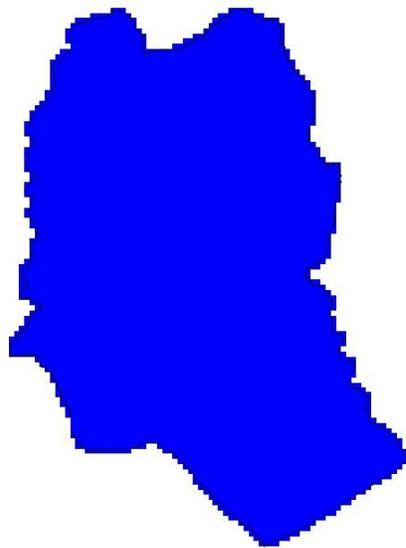
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PBF-1

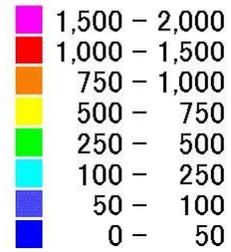


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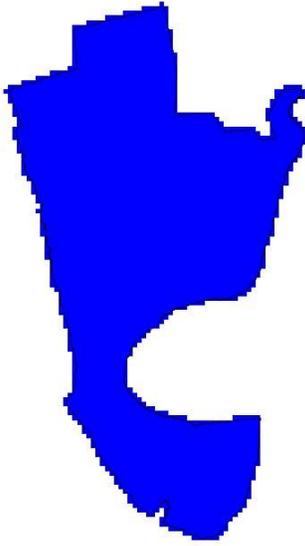


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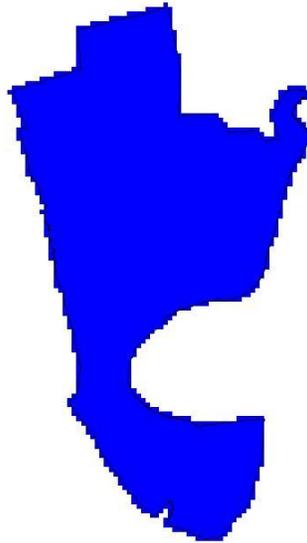
Sa(h=5%) (gal)



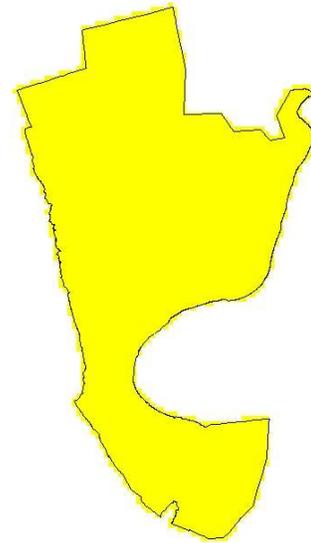
Sa (h=5%) for T=1.0 sec at Engineering Seismic Baserock (Vs30=760 m/sec) in Chittagong



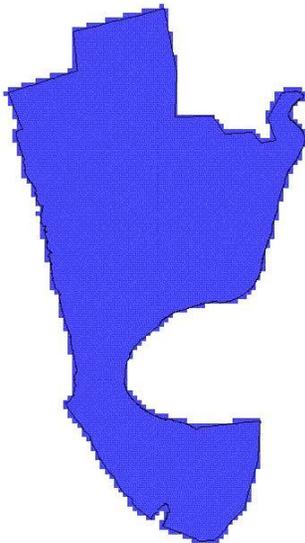
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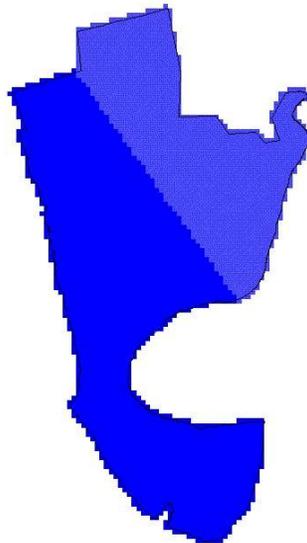
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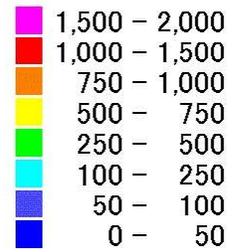


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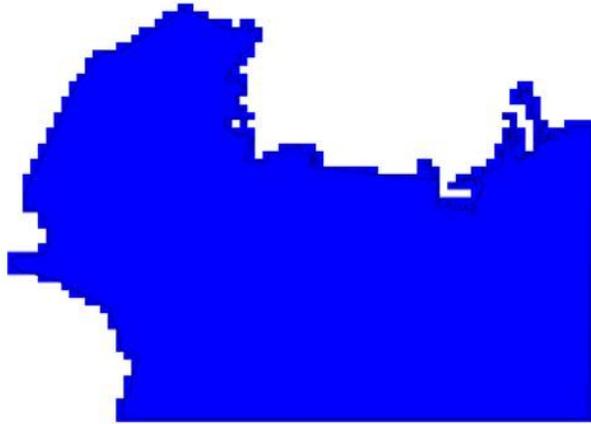


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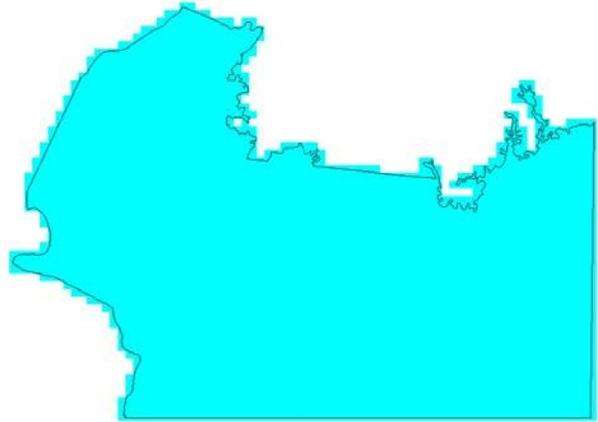
Sa(h=5%) (gal)



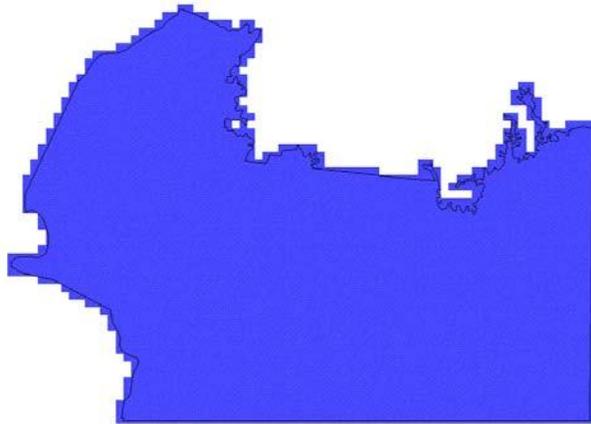
Sa (h=5%) for T=1.0 sec at Engineering Seismic Baserock (Vs30=760 m/sec) in Sylhet



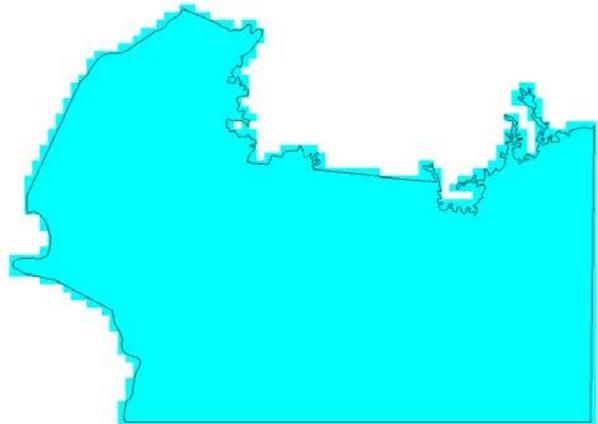
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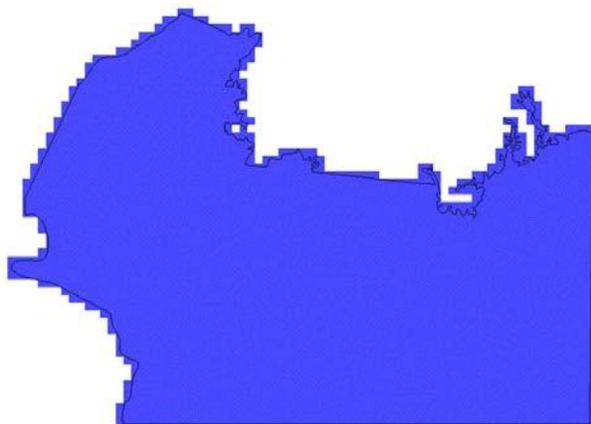
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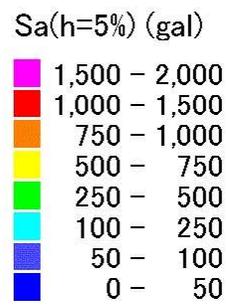
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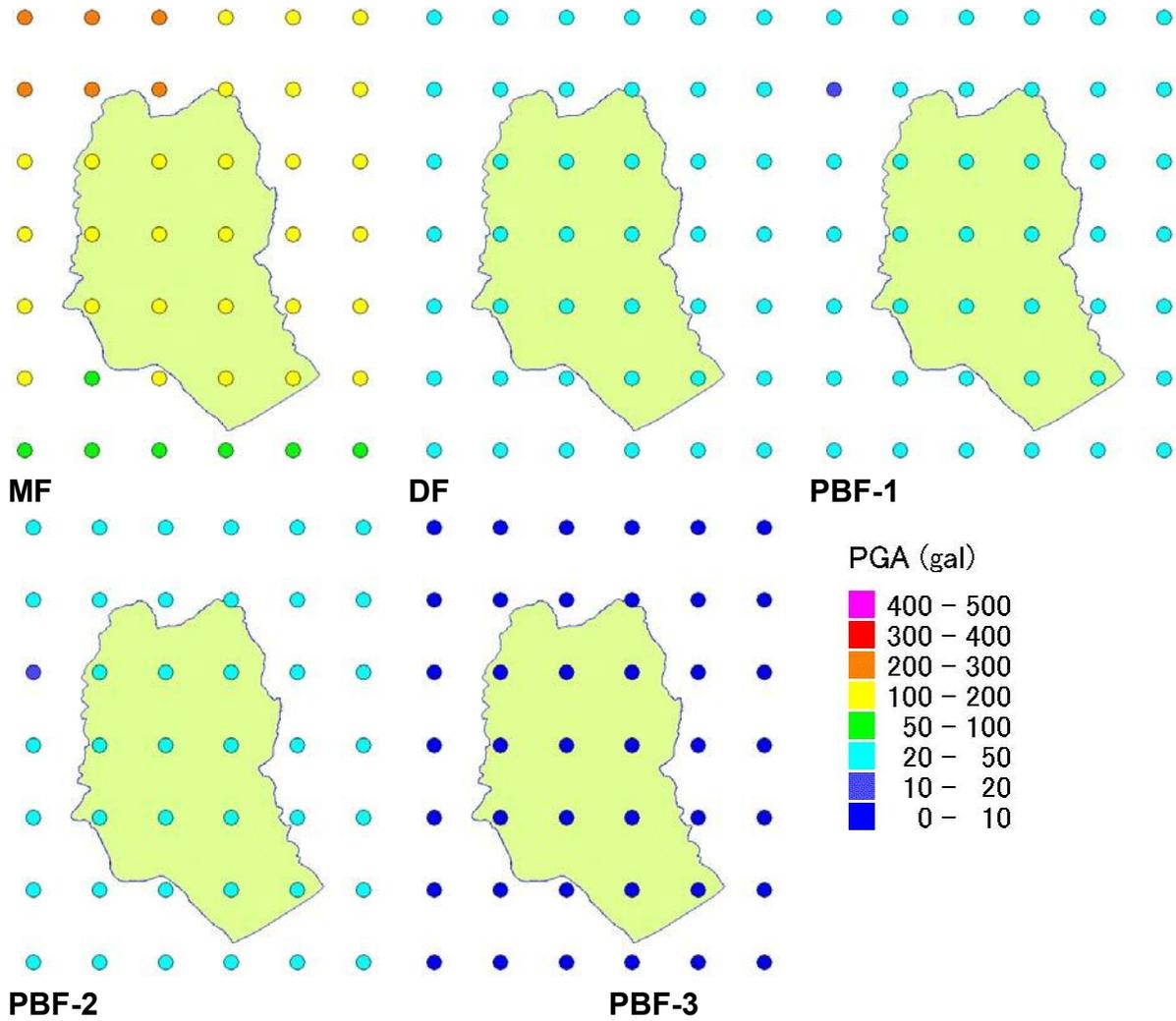
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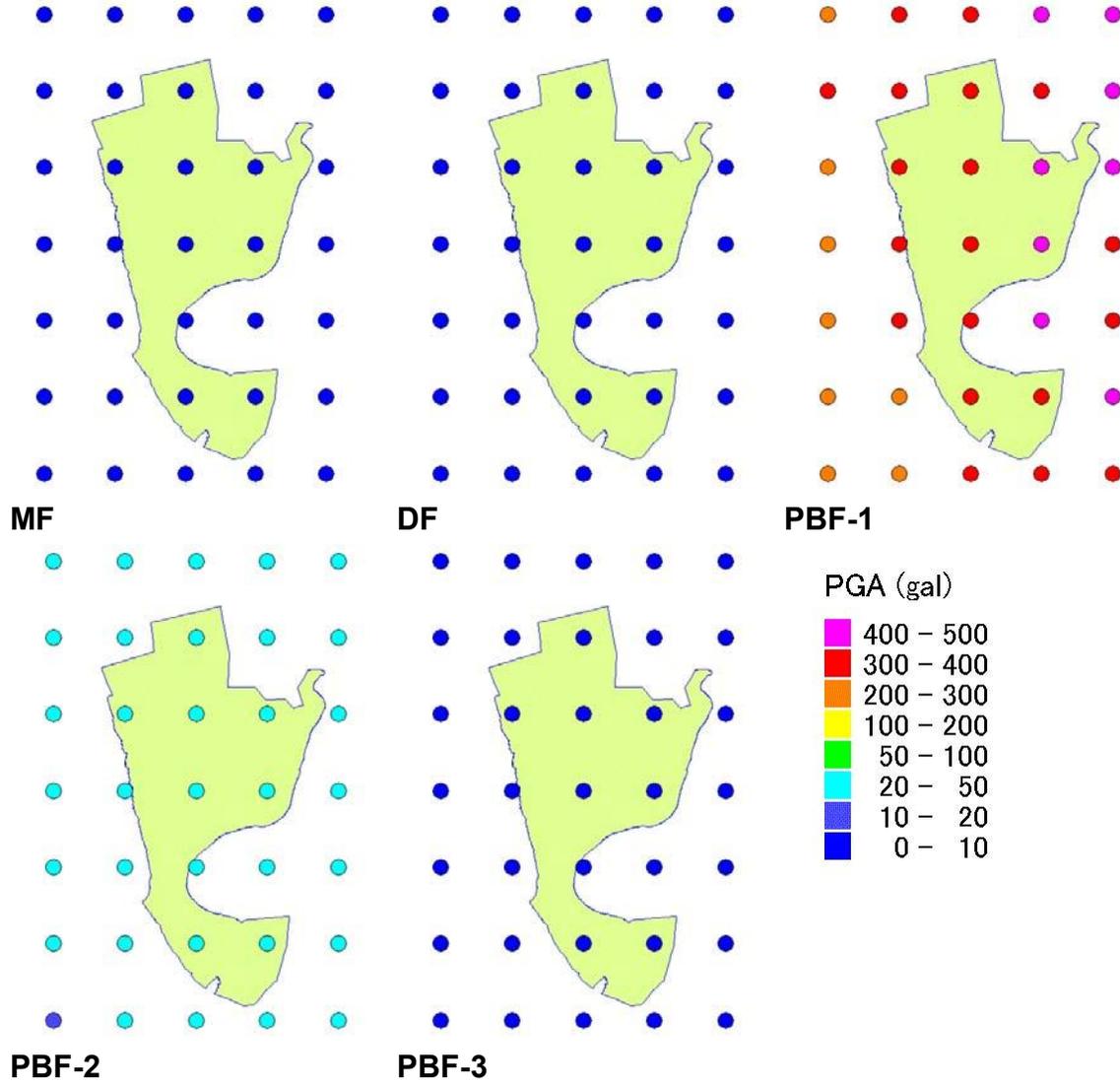
PBF-3



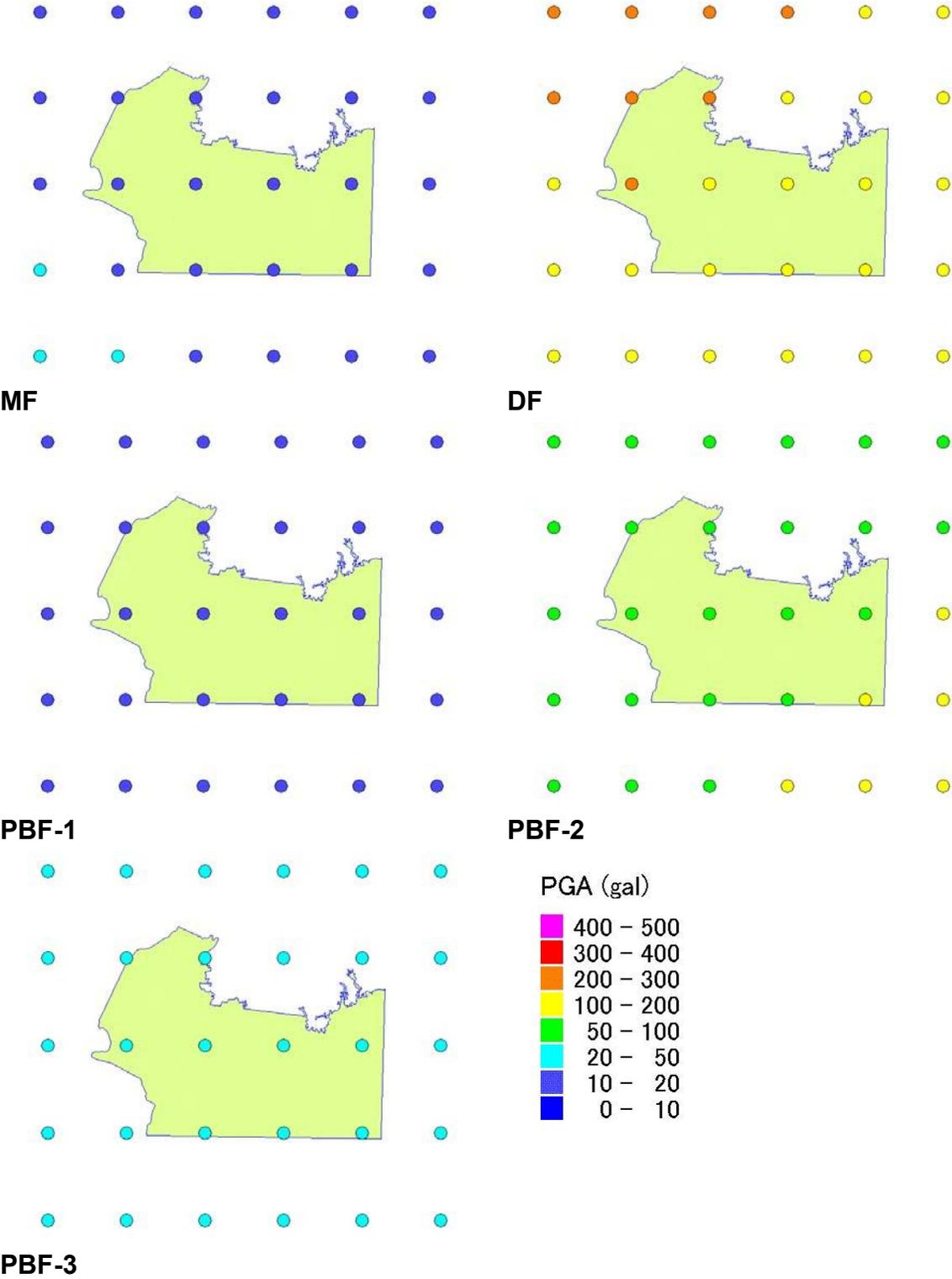
PGA at Ground of Vs=400 m/sec in Dhaka



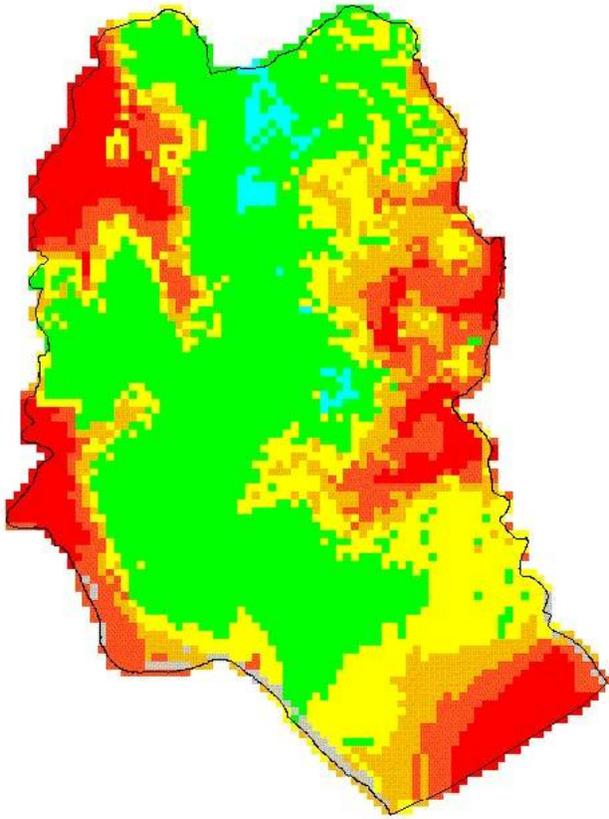
PGA at Ground of Vs=400 m/sec in Chittagong



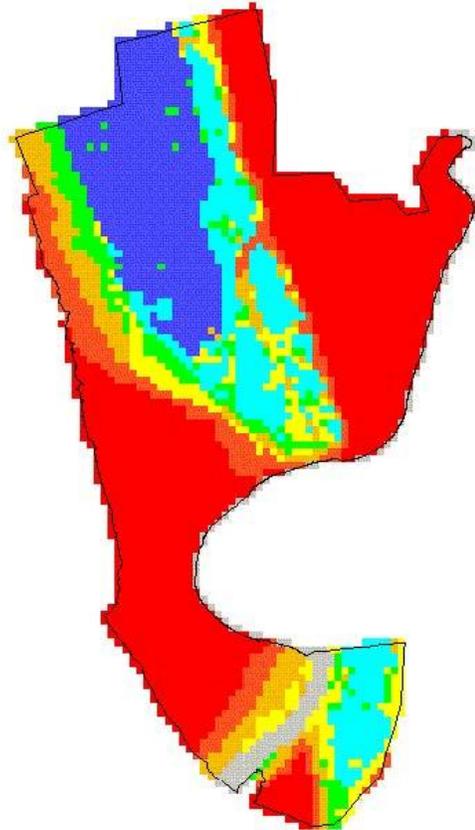
PGA at Ground of Vs=400 m/sec in Sylhet



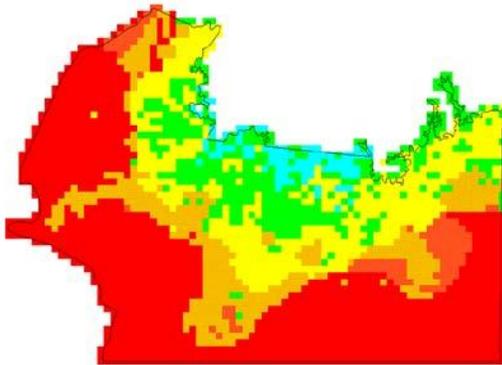
Ground Classification based on Vs30



Dhaka



Chittagong

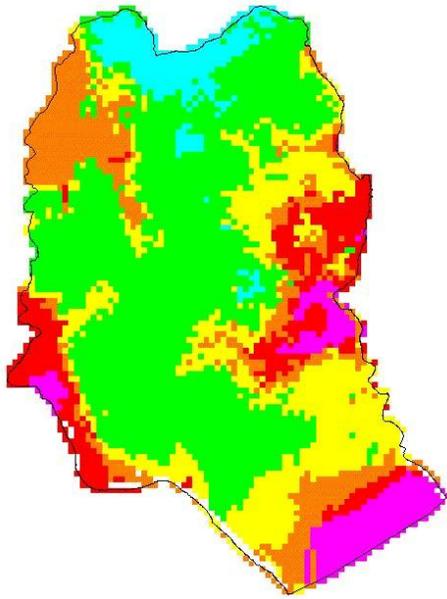


Sylhet

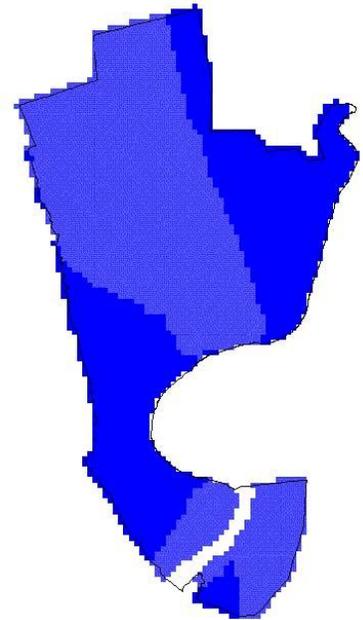
Ground Class

- C
- D1
- D2
- D3
- D4
- D5
- E
- Water Area

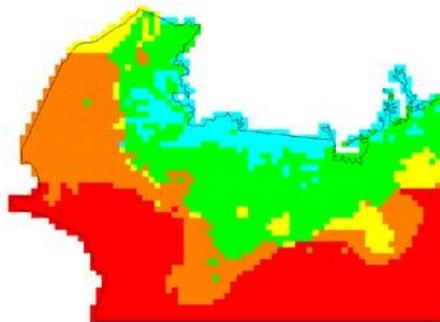
Amplification for PGA and Sa(0.3sec)



MF DF, PBF-1, PBF-2, PBF-3

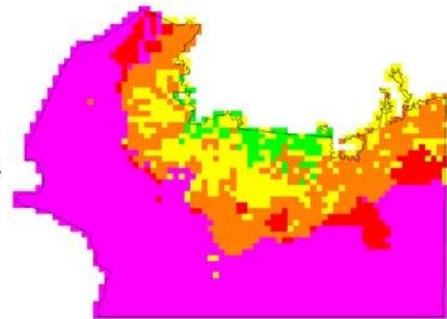


PBF-1 MF, DF, PBF-2, PBF-3



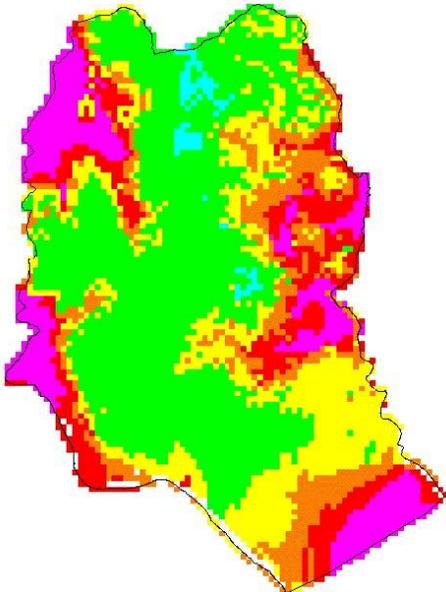
DF PBF-2

Short Period Amp.

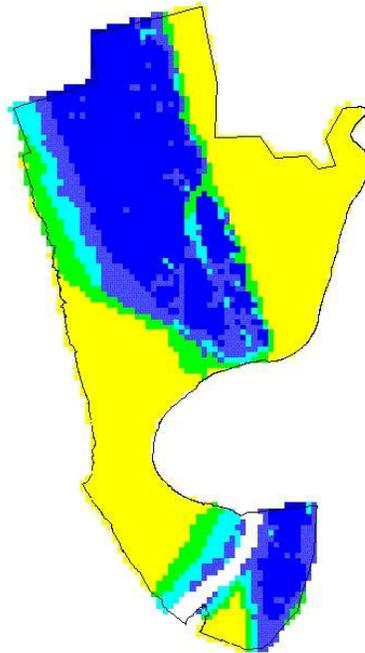


MF, PBF-1, PBF-3

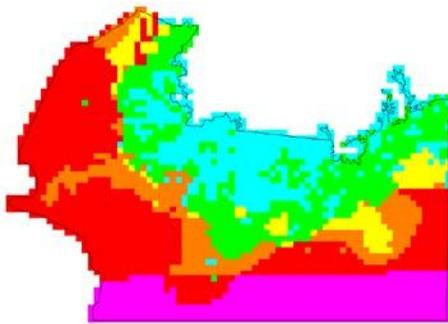
Amplification for PGV and Sa(1.0sec)



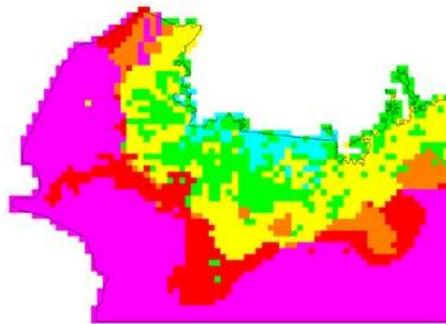
MF, DF, PBF-1, PBF-2, PBF-3



PBF-1 MF, DF, PBF-2, PBF-3



DF PBF-2

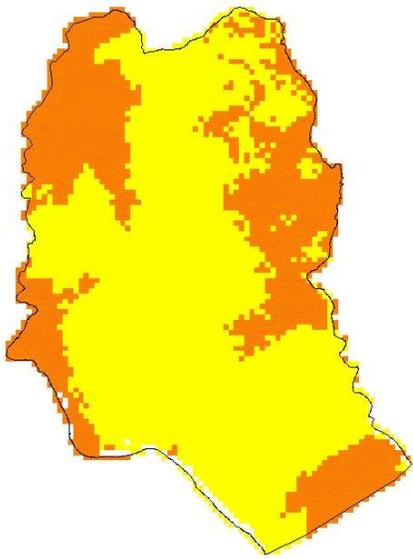


MF, PBF-1, PBF-3

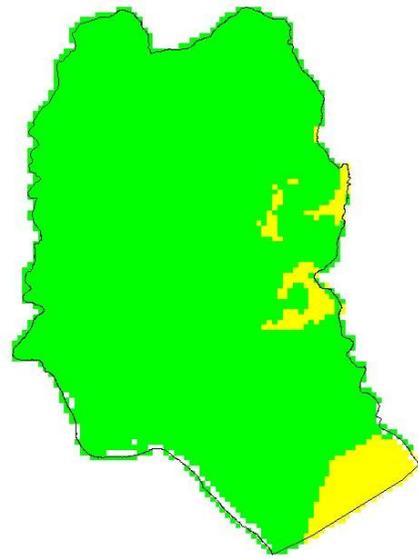
Long Period Amp.



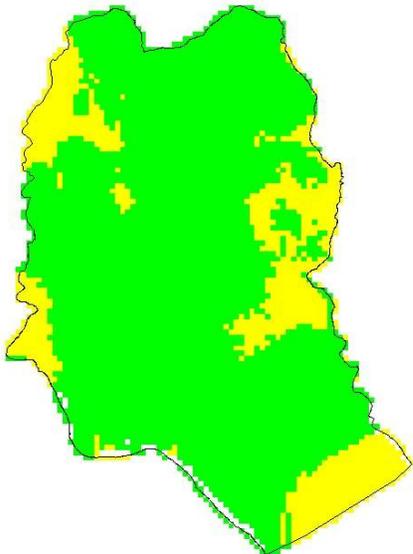
PGA at Ground Surface in Dhaka



MF

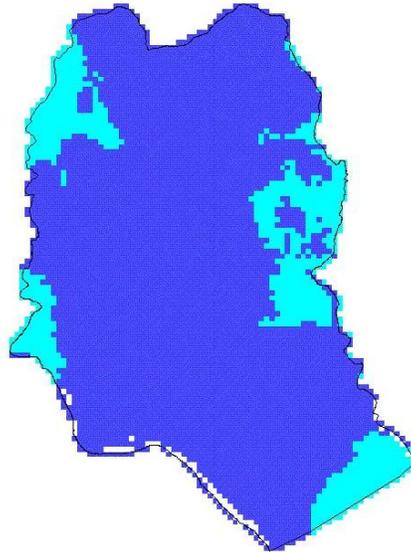


PBF-1



PBF-2

DF

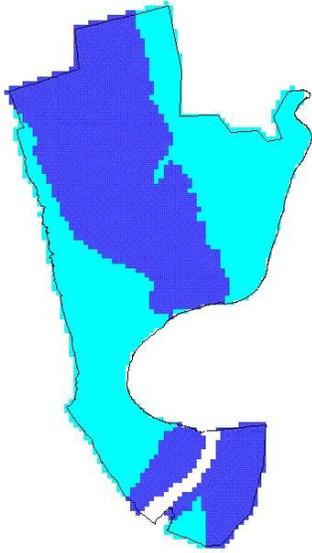


PBF-3

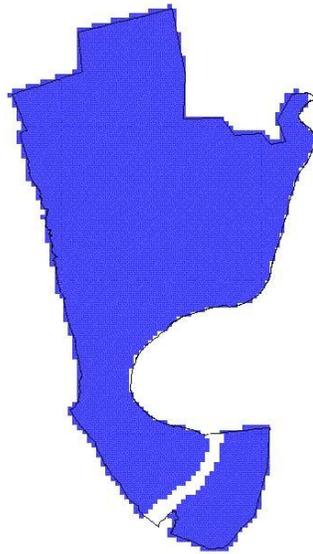
PGA (gal)

- 700 - 900
- 500 - 700
- 300 - 500
- 200 - 300
- 100 - 200
- 50 - 100
- 20 - 50
- 0 - 20

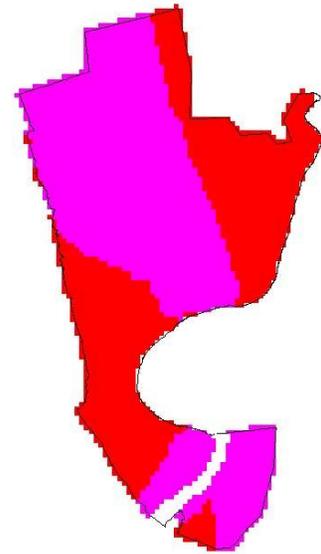
PGA at Ground Surface in Chittagong



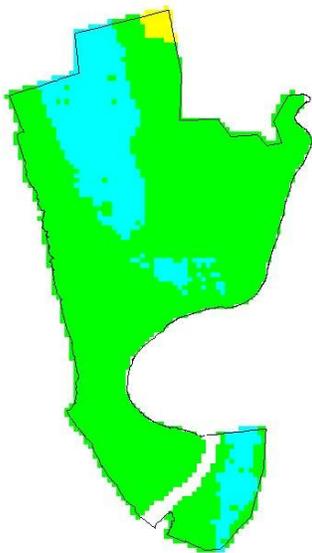
MF



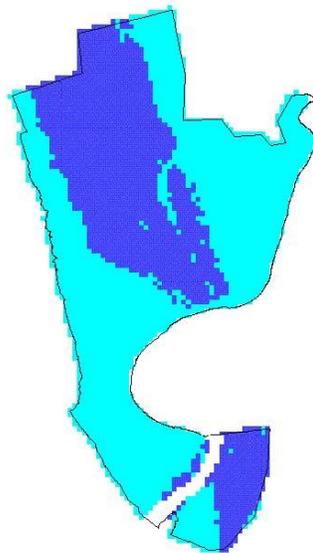
DF



PBF-1

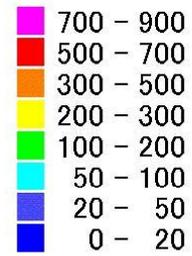


PBF-2

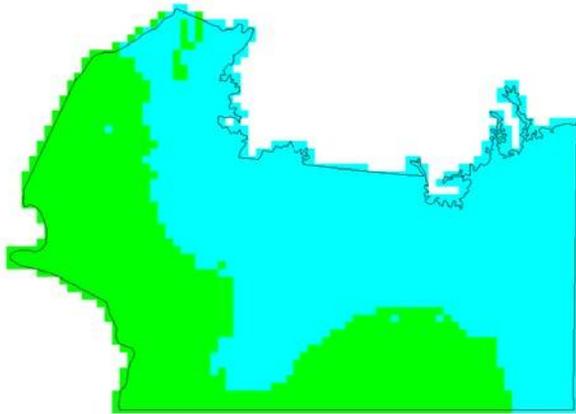


PBF-3

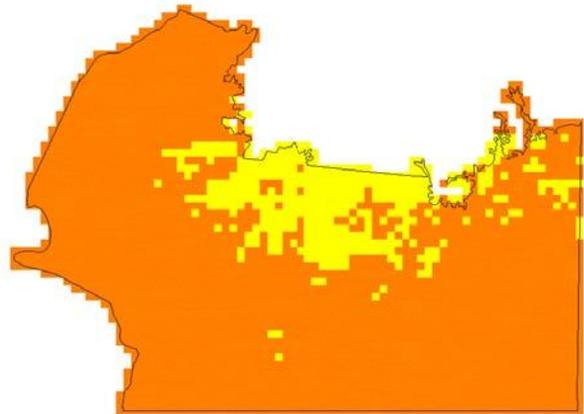
PGA (gal)



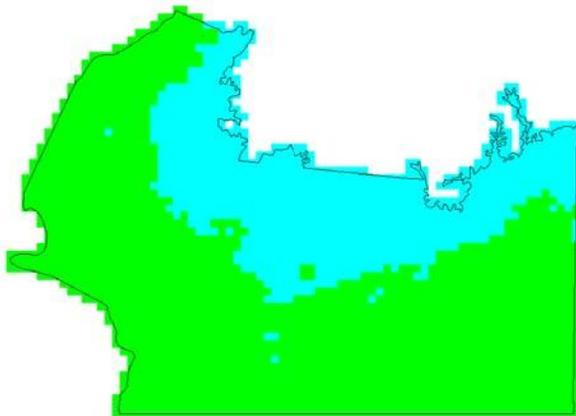
PGA at Ground Surface in Sylhet



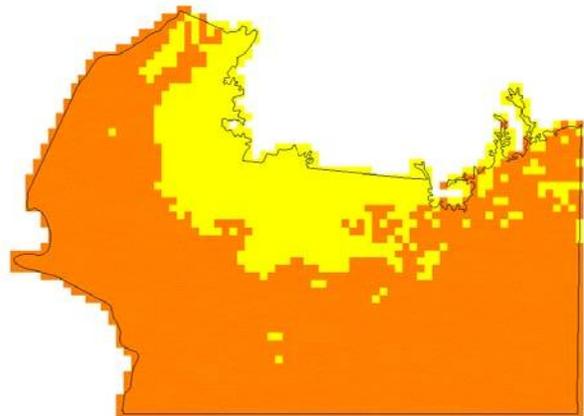
MF



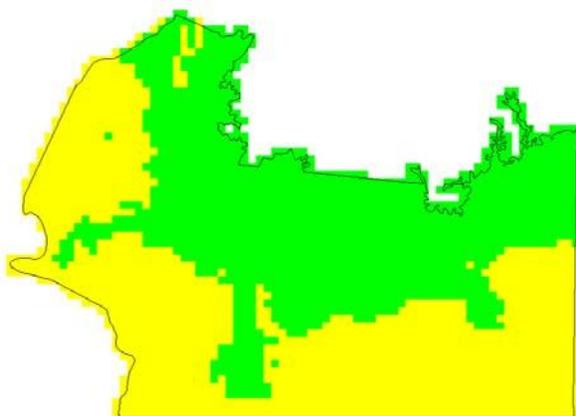
DF



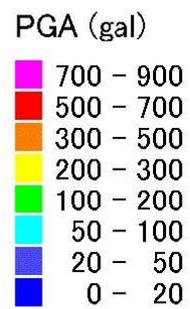
PBF-1



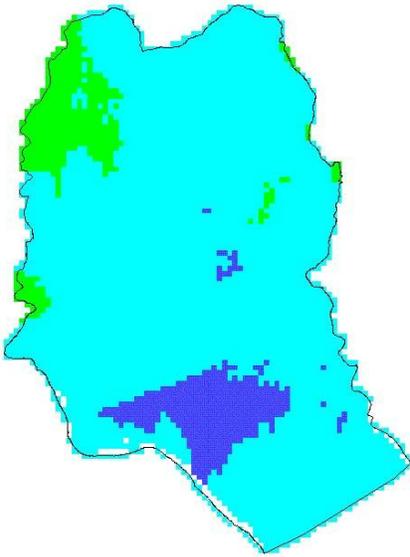
PBF-2



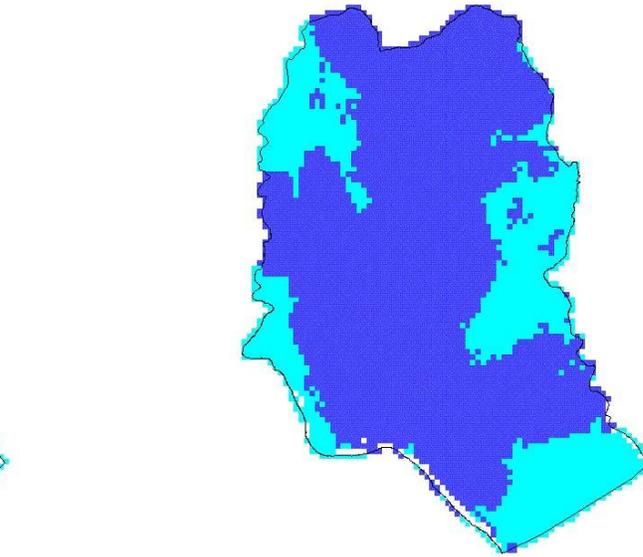
PBF-3



PGV at Ground Surface in Dhaka

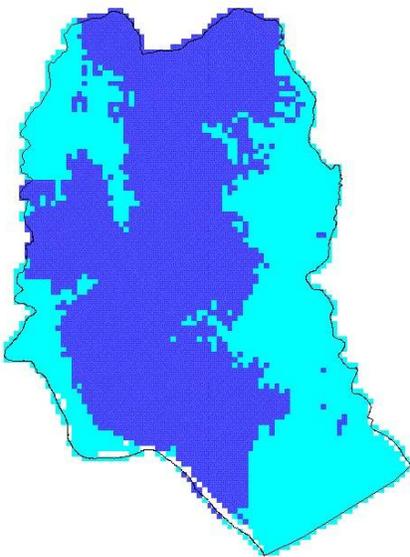


MF

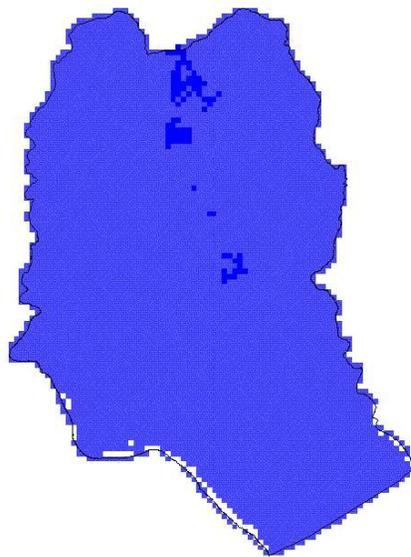


DF

PBF-1

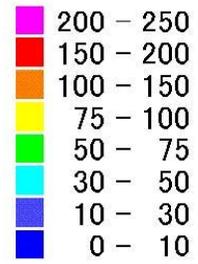


PBF-2

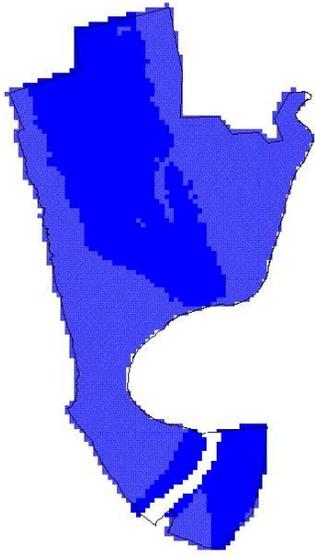


PBF-3

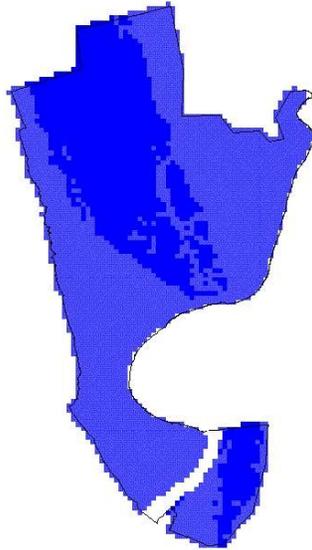
PGV (kine)



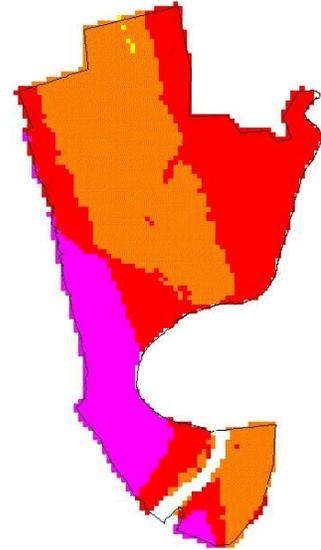
PGV at Ground Surface in Chittagong



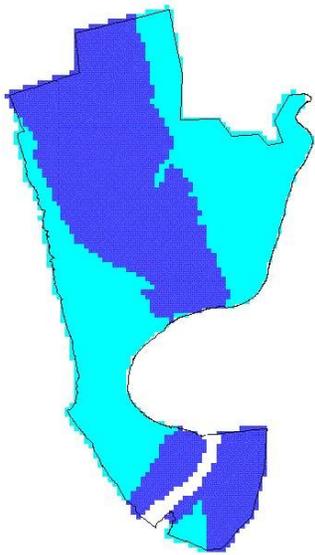
MF



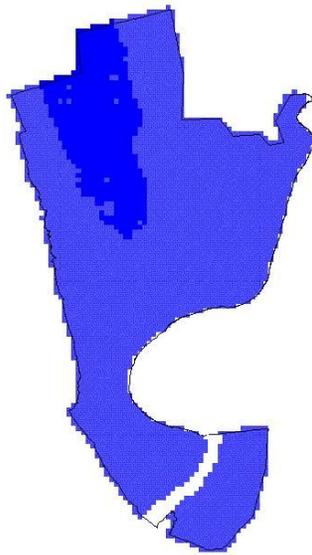
DF



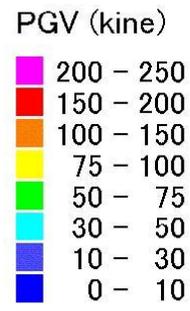
PBF-1



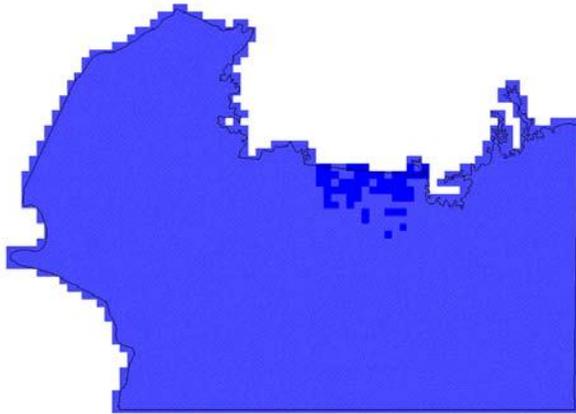
PBF-2



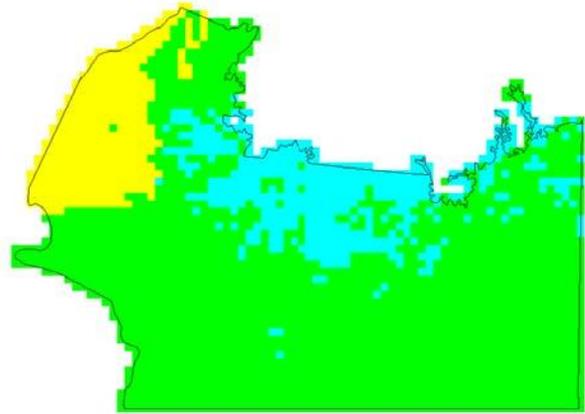
PBF-3



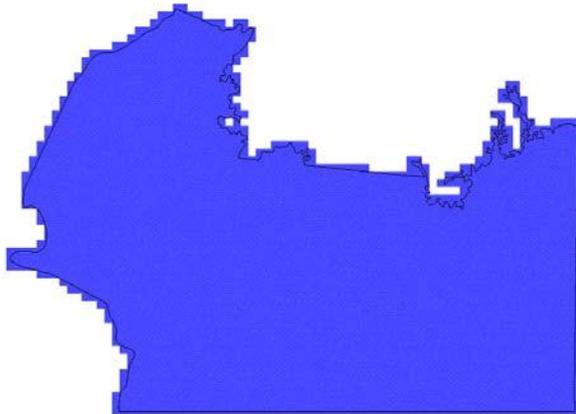
PGV at Ground Surface in Sylhet



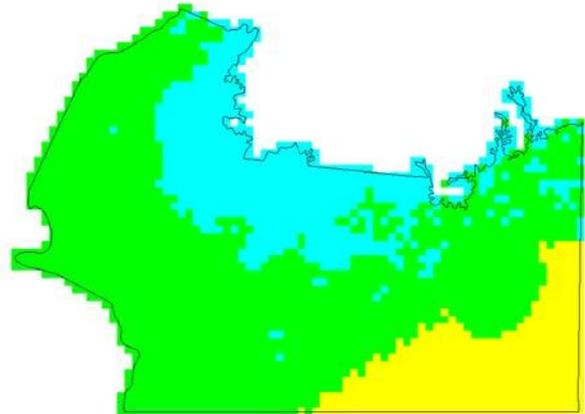
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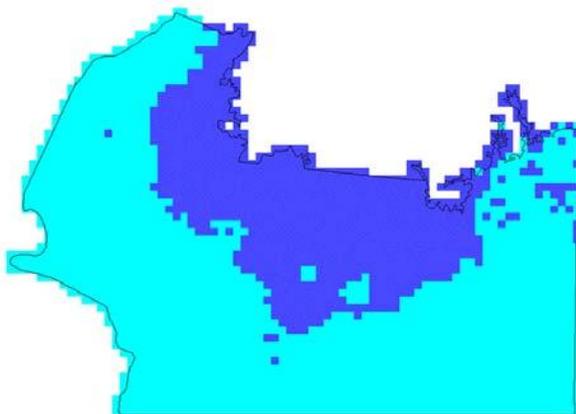
DF



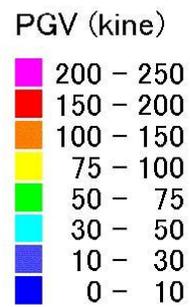
PBF-1



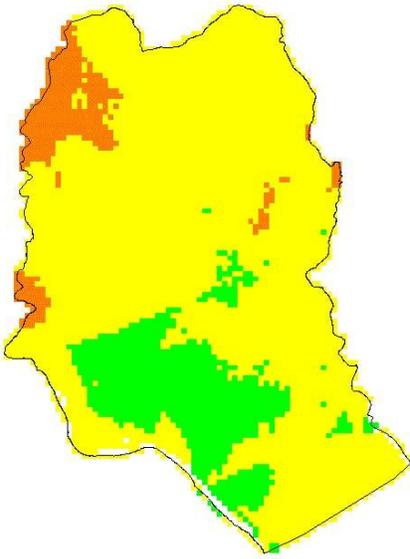
PBF-2



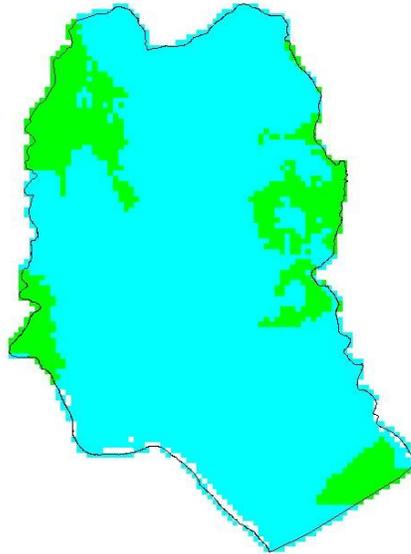
PBF-3



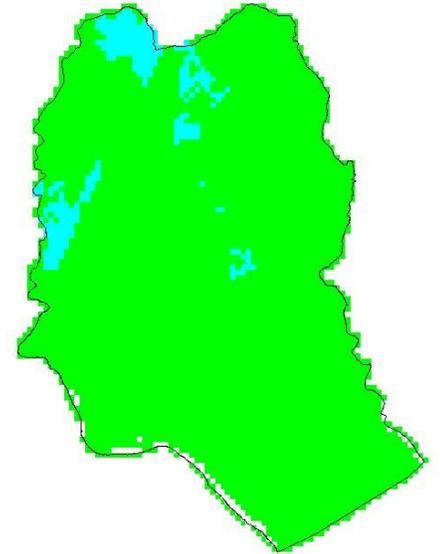
Sa (h=5%) for T=0.3 sec at Ground Surface in Dhaka



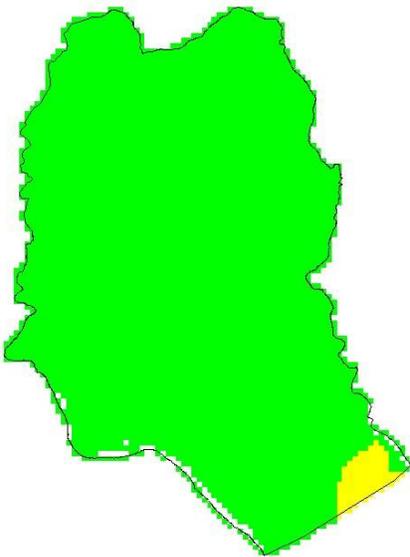
MF



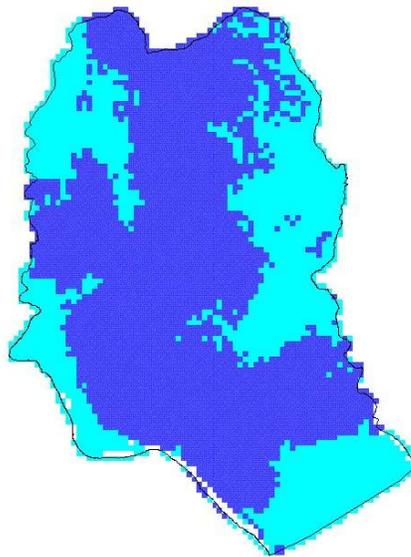
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PBF-1

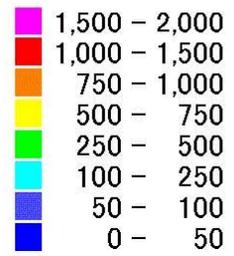


PBF-2

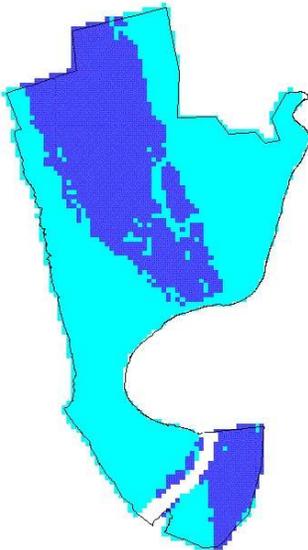


PBF-3

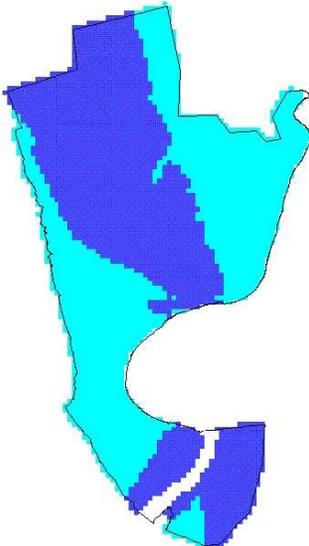
Sa(h=5%) (gal)



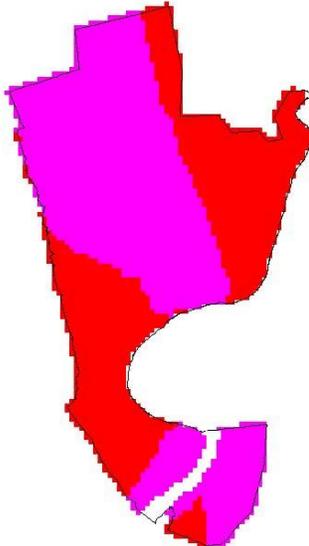
Sa (h=5%) for T=0.3 sec at Ground Surface in Chittagong



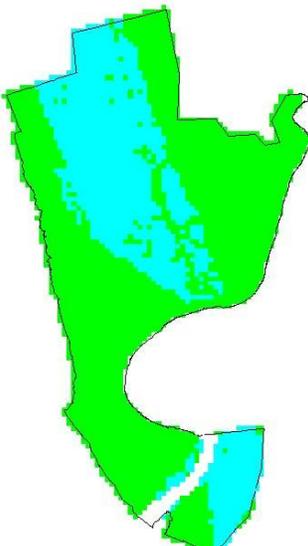
MF



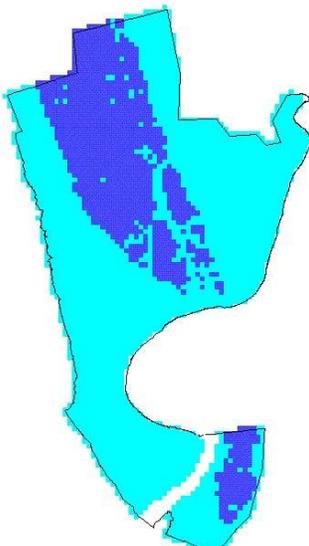
DF



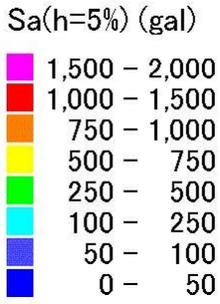
PBF-1



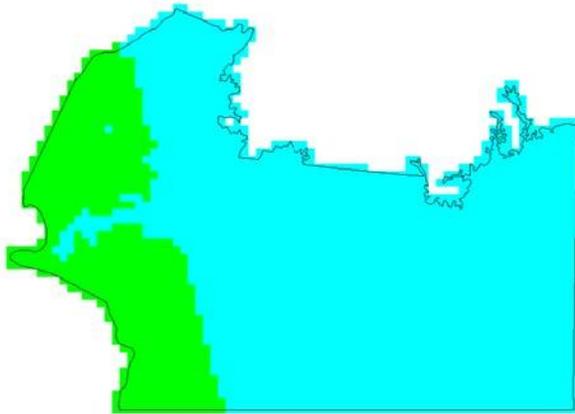
PBF-2



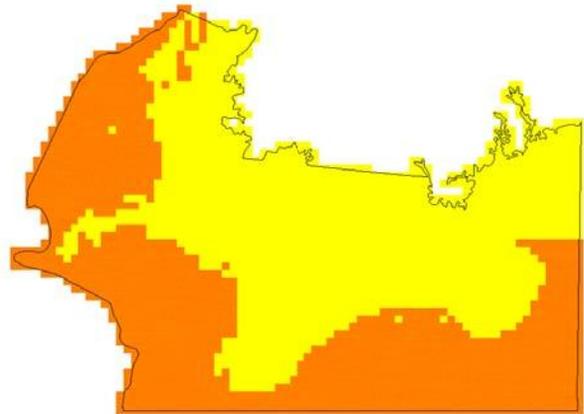
PBF-3



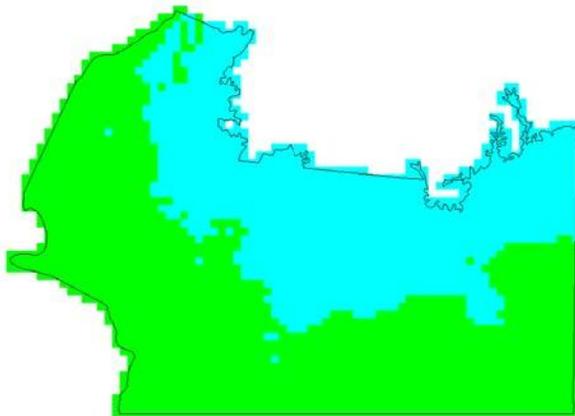
Sa (h=5%) for T=0.3 sec at Ground Surface in Sylhet



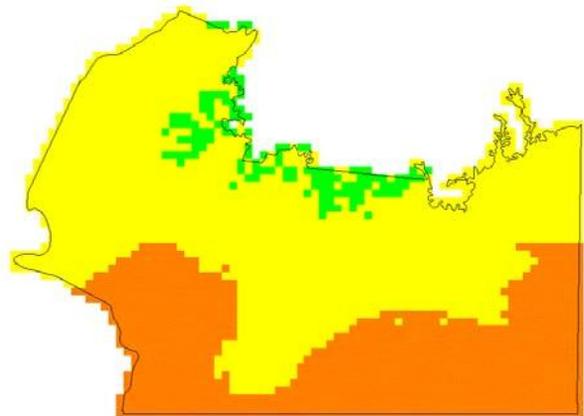
MF



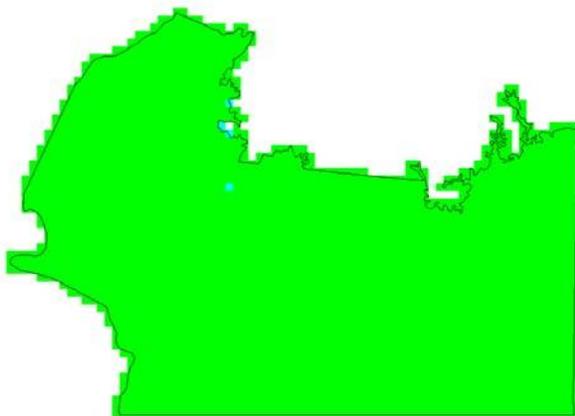
DF



PBF-1

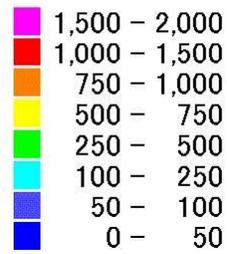


PBF-2

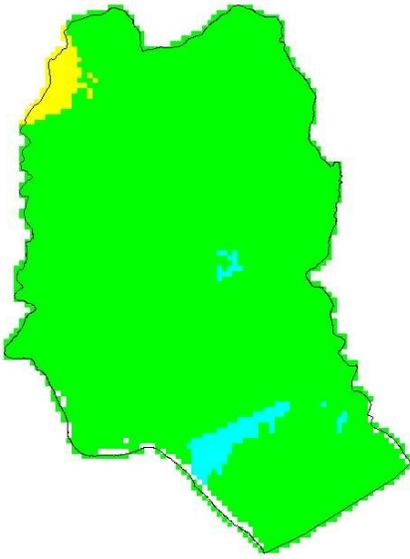


PBF-3

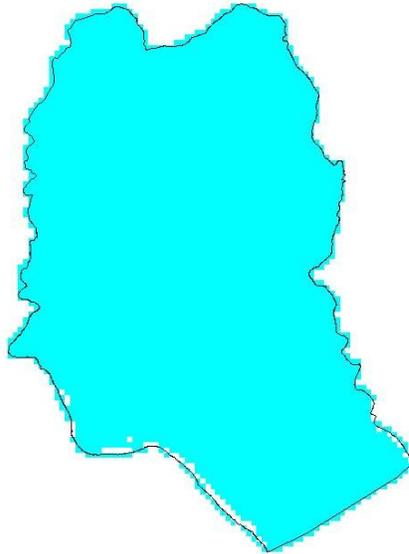
Sa(h=5%) (gal)



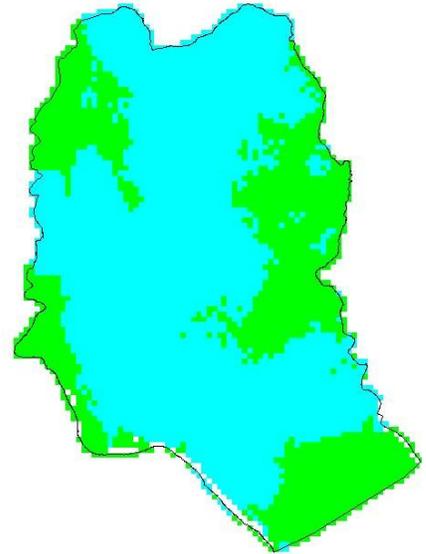
Sa (h=5%) for T=1.0 sec at Ground Surface in Dhaka



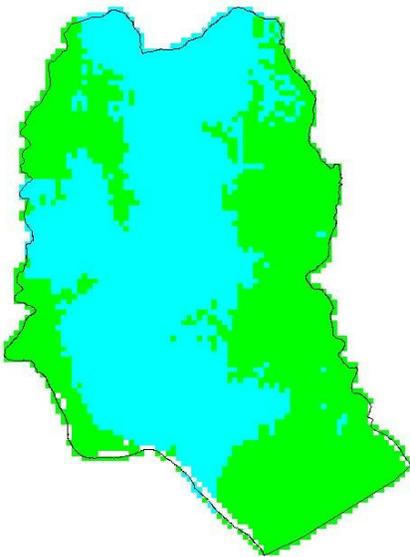
MF



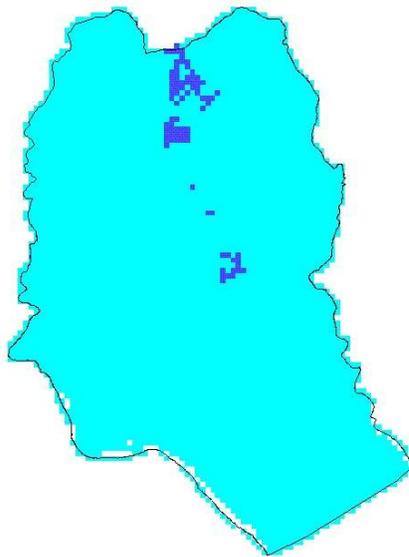
DF



PBF-1

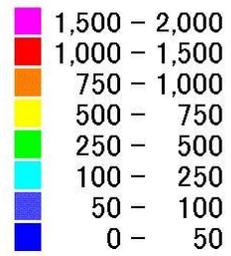


PBF-2

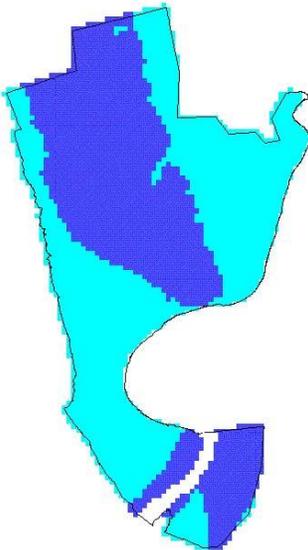


PBF-3

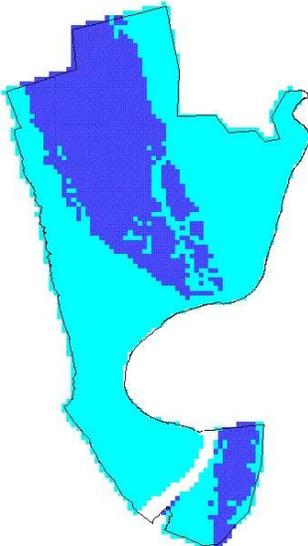
Sa(h=5%) (gal)



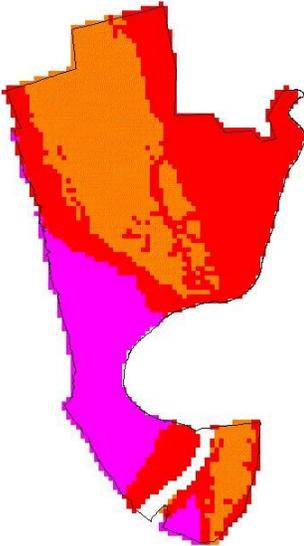
Sa (h=5%) for T=1.0 sec at Ground Surface in Chittagong



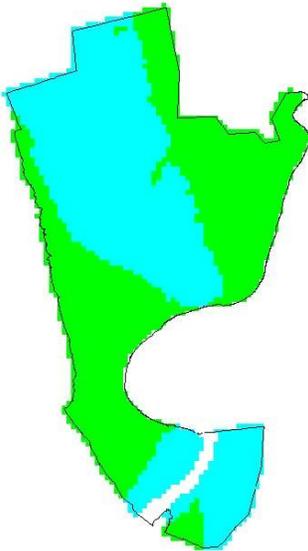
MF



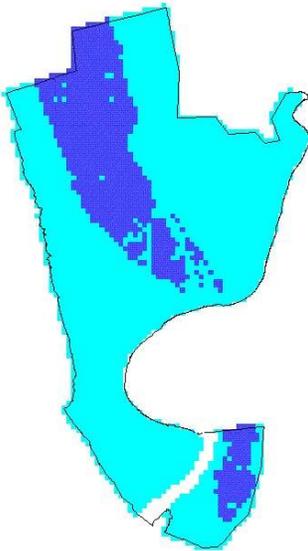
DF



PBF-1



PBF-2

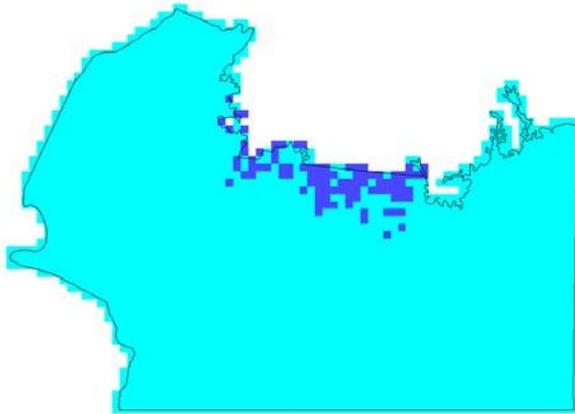


PBF-3

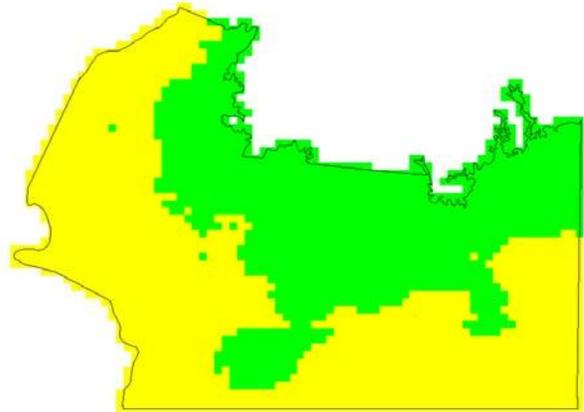
Sa(h=5%) (gal)

- 1,500 - 2,000
- 1,000 - 1,500
- 750 - 1,000
- 500 - 750
- 250 - 500
- 100 - 250
- 50 - 100
- 0 - 50

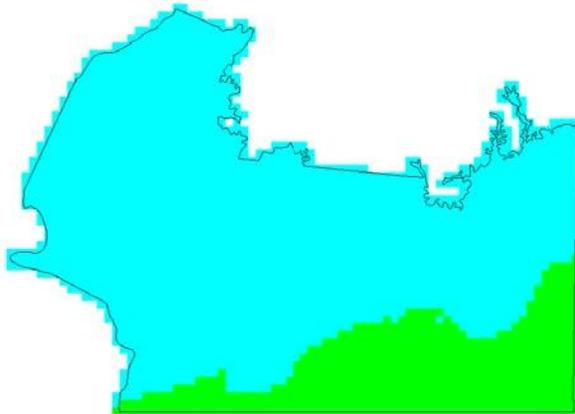
Sa (h=5%) for T=1.0 sec at Ground Surface in Sylhet



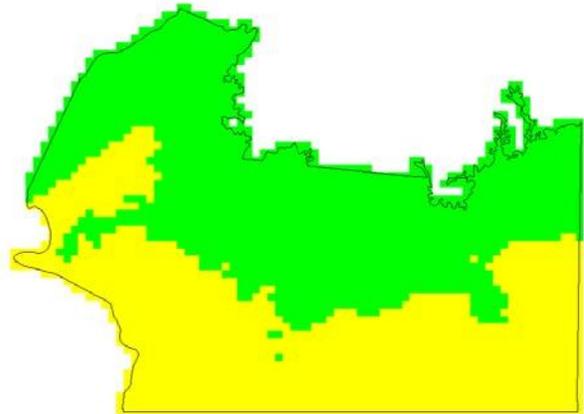
MF



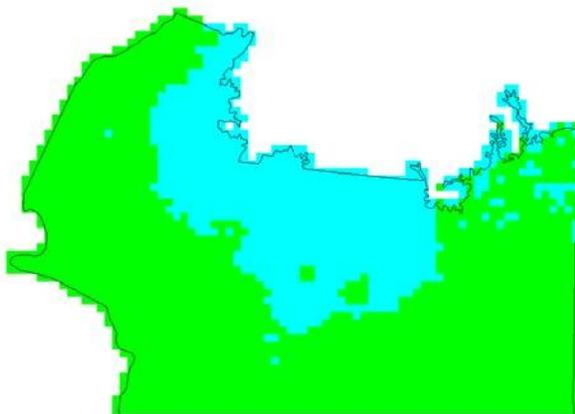
DF



PBF-1

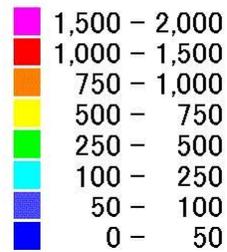


PBF-2



PBF-3

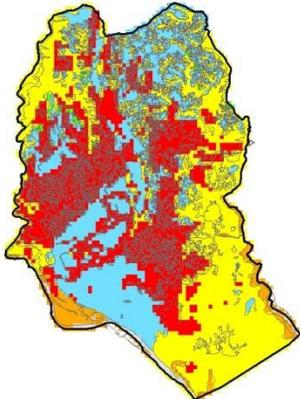
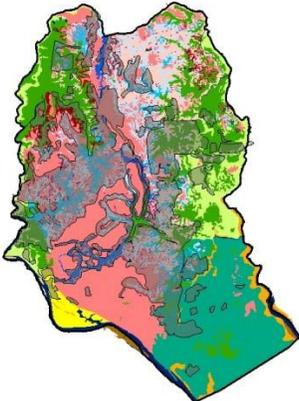
Sa(h=5%) (gal)



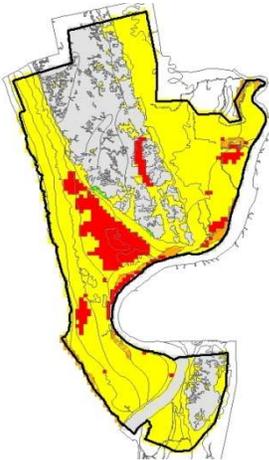
Fill Area

Liquefaction Susceptibility

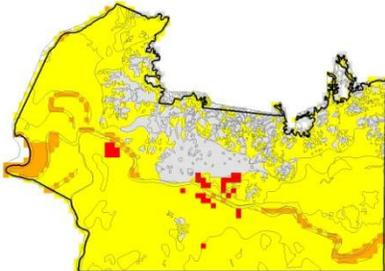
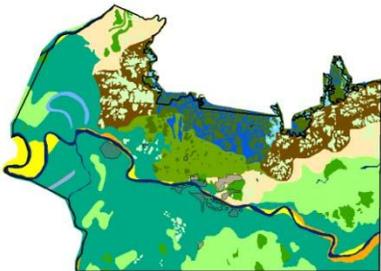
Dhaka



Chittagong



Sylhet



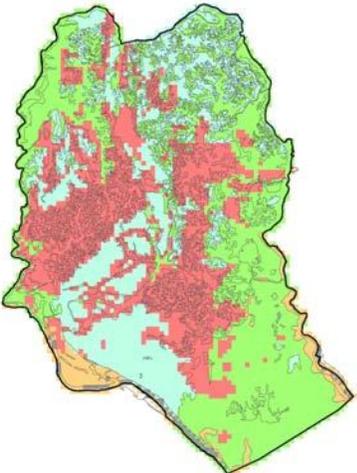
Legend

 Fill Area

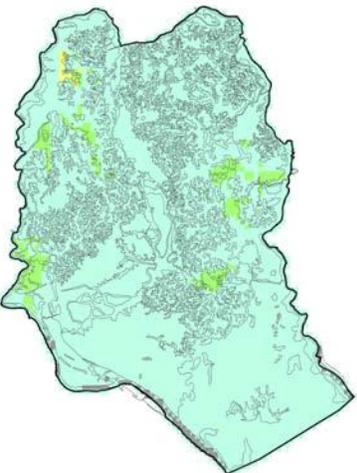
Liquefaction Susceptibility

-  None
-  Very Low
-  Low
-  Moderate
-  High
-  Very High

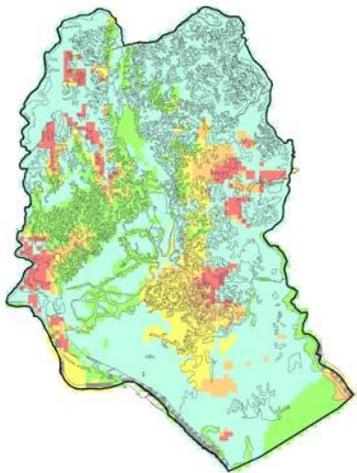
Liquefaction Probability for 5 Scenario Earthquakes in Dhaka



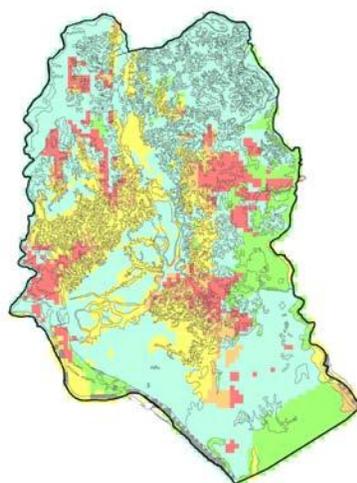
MF



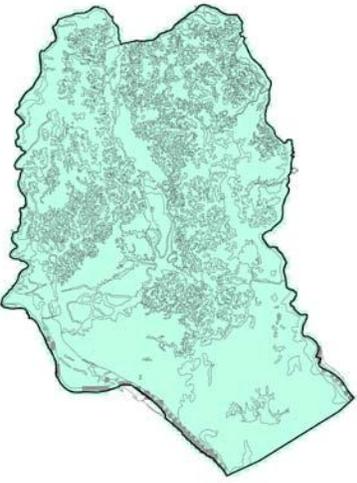
DF



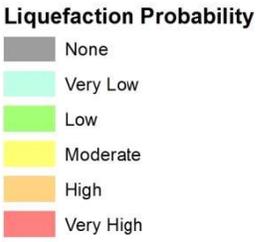
PBF-1



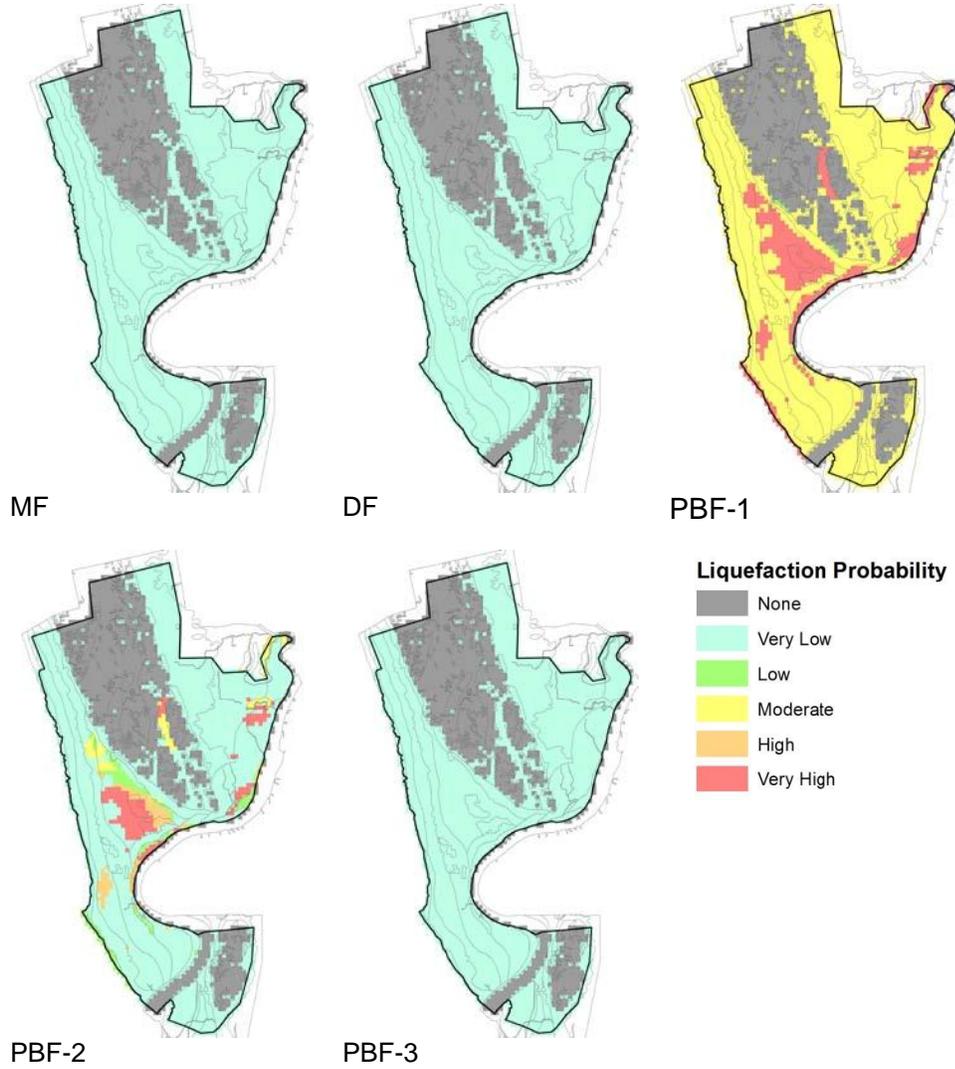
PBF-2



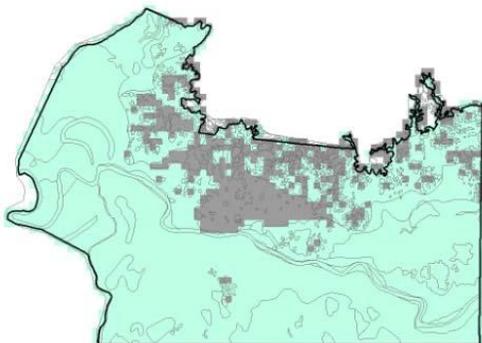
PBF-2



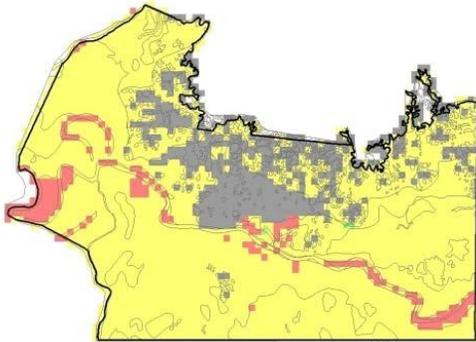
Liquefaction Probability for 5 Scenario Earthquakes in Chittagong



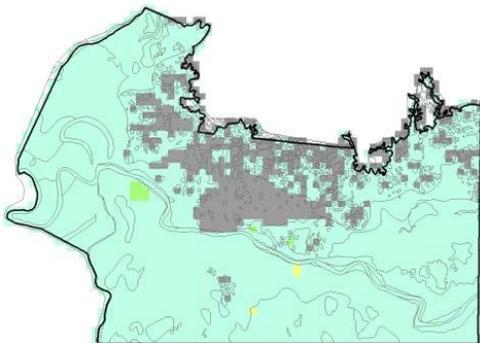
Liquefaction Probability for 5 Scenario Earthquakes in Sylhet



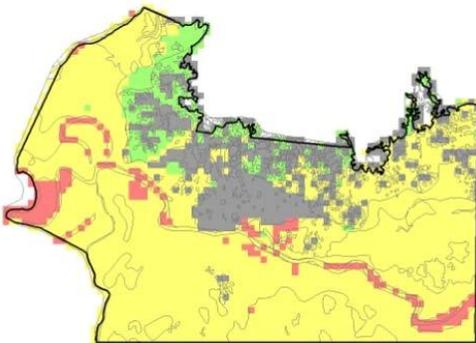
MF



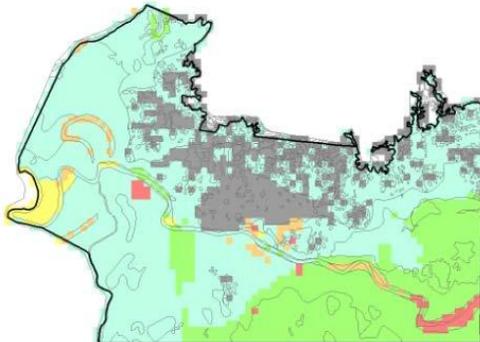
DF



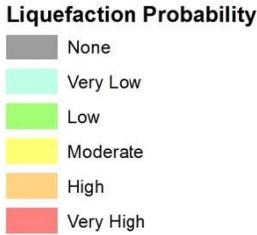
PBF-1



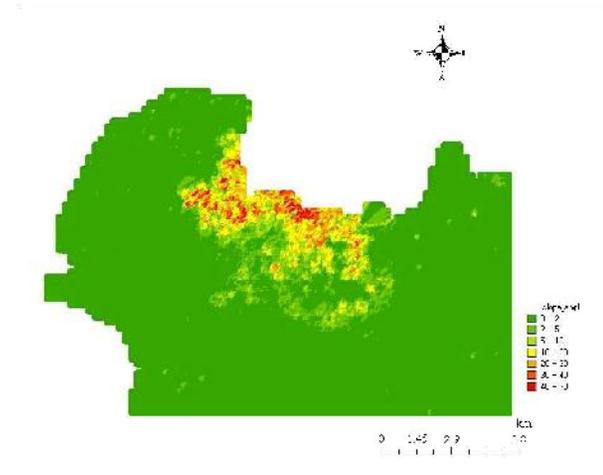
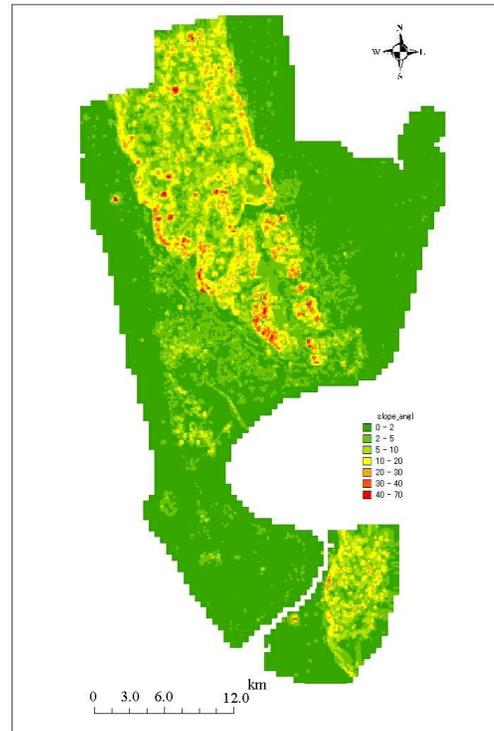
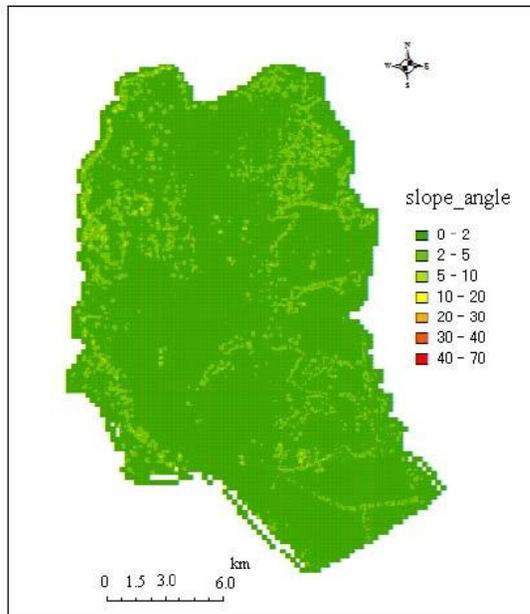
PBF-2



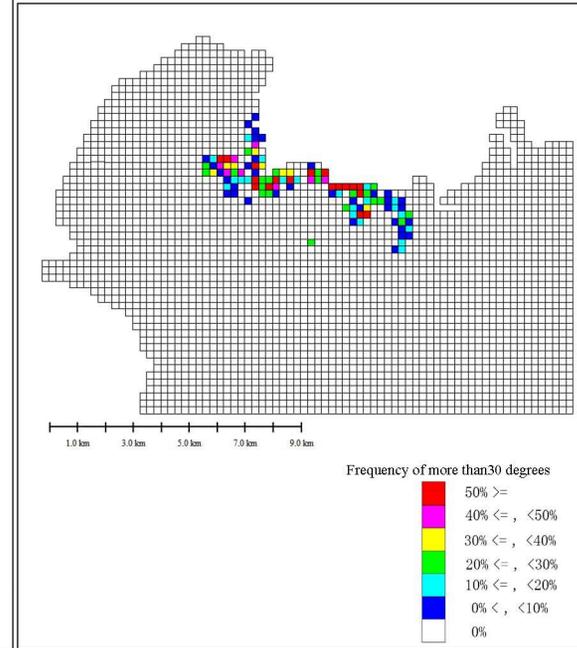
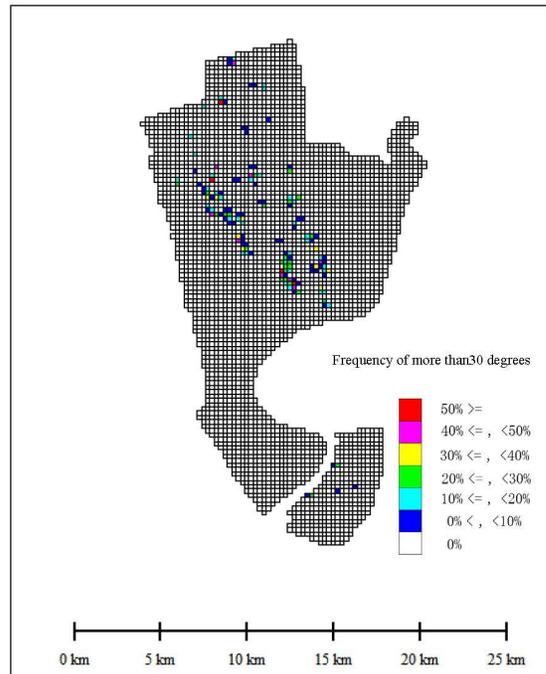
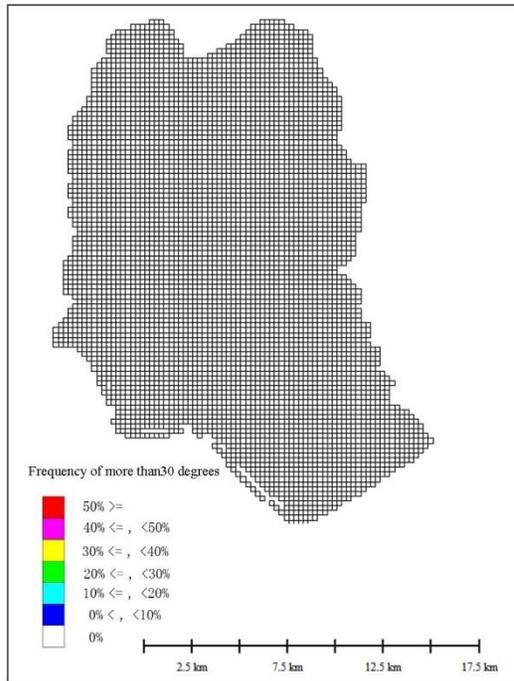
PBF-3



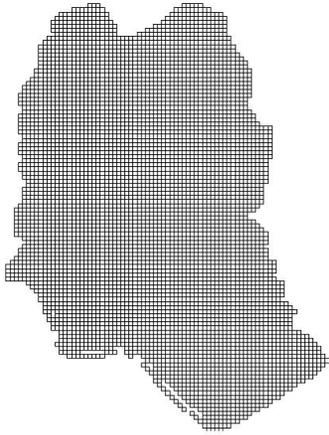
Distribution of Slope Angle



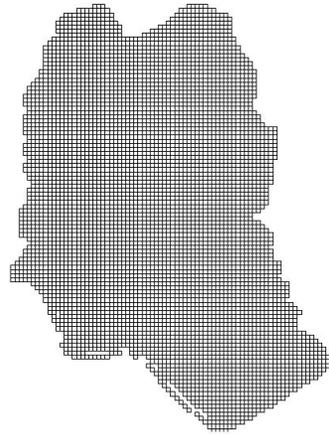
Frequency of more than 30 Degrees of the Slope Angle per One Grid



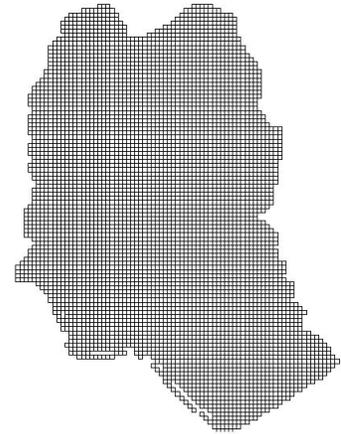
The Frequency of $F_s \leq 1.2$ by Wilson's Method in Dhaka



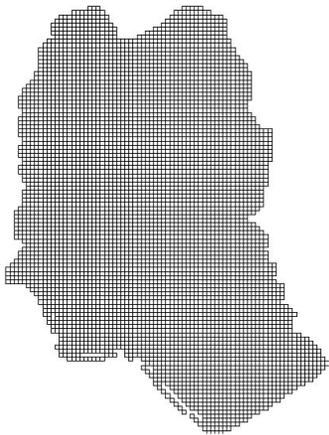
MF



DF

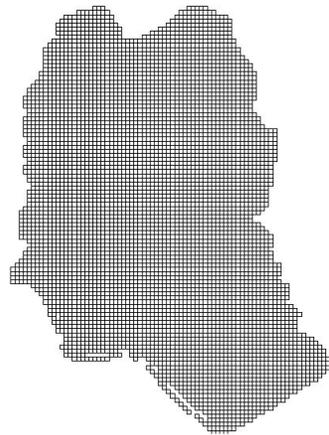


PBF-1

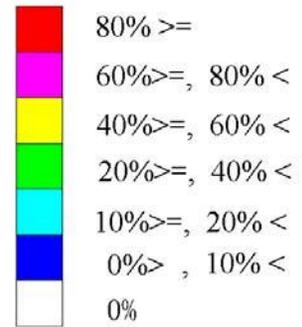


PBF-2

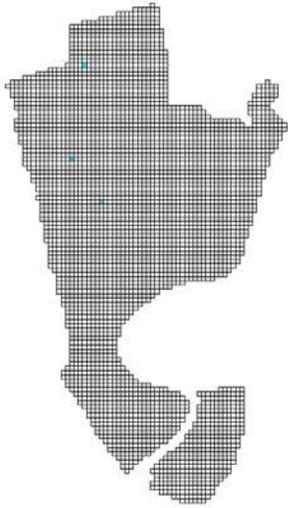
Frequency of $F_s \leq 1.2$



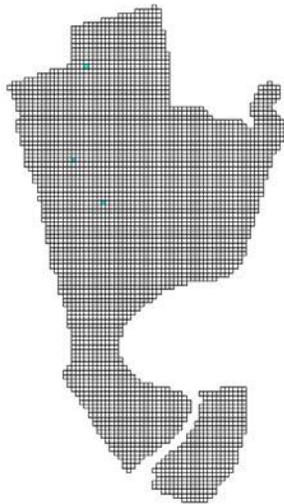
PBF-3



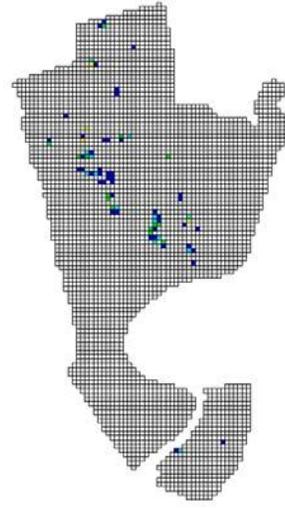
The Frequency of $F_s \leq 1.2$ by Wilson's Method in Chittagong



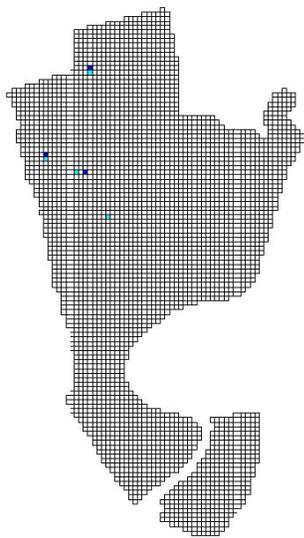
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DF

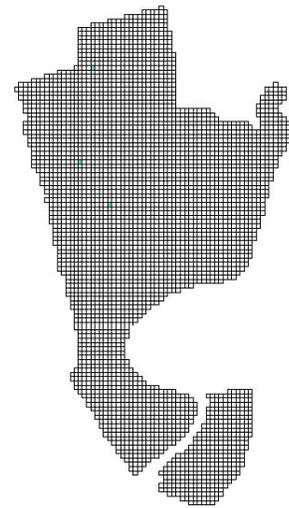


PBF-1

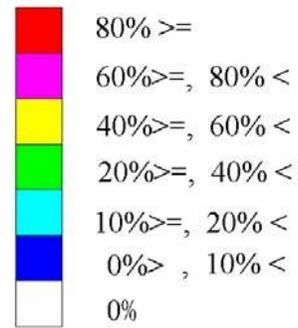


PBF-2

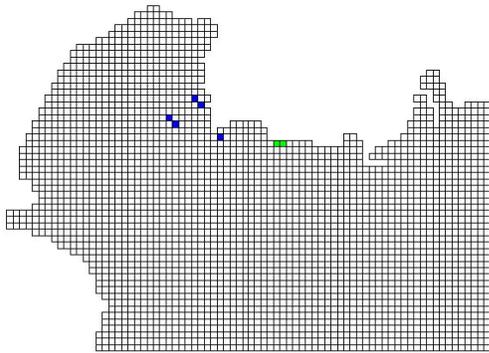
Frequency of $F_s \leq 1.2$



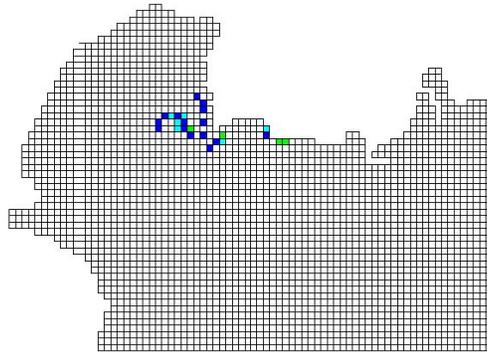
PBF-3



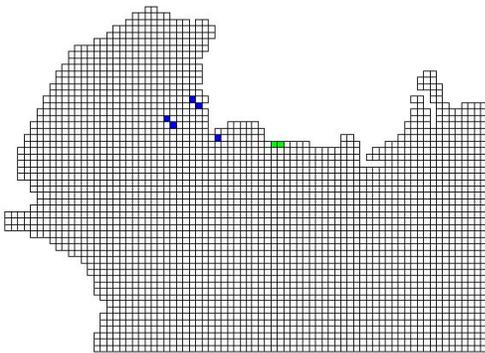
The Frequency of $F_s \leq 1.2$ by Wilson's Method in Sylhet



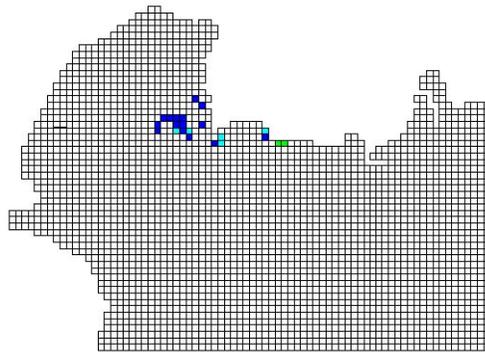
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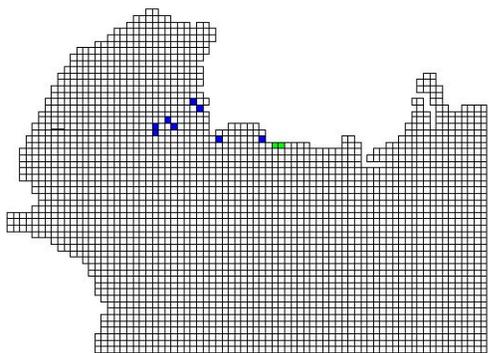
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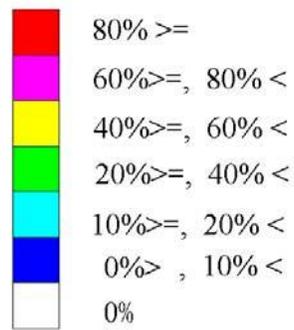
PBF-1



PBF-2

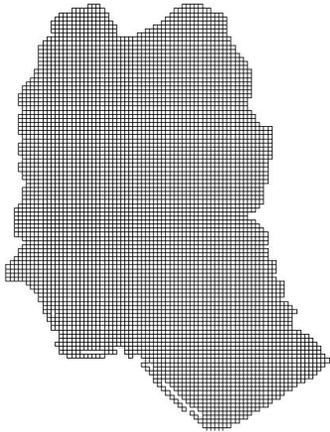


PBF-3

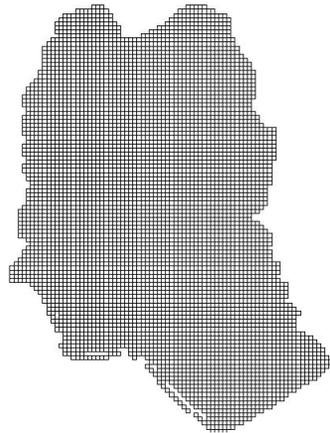


Frequency of $F_s \leq 1.2$

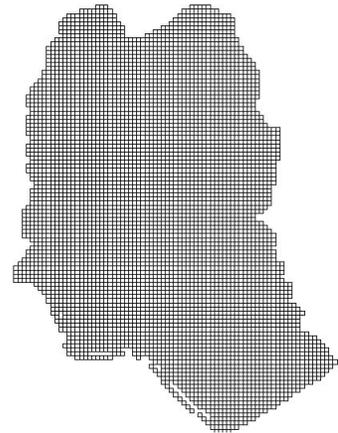
The Frequency of $F_s \leq 1.2$ by Koppula's Method in Dhaka



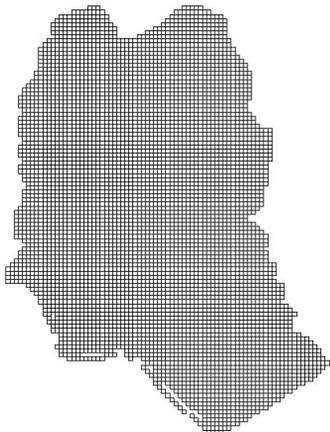
MF



DF

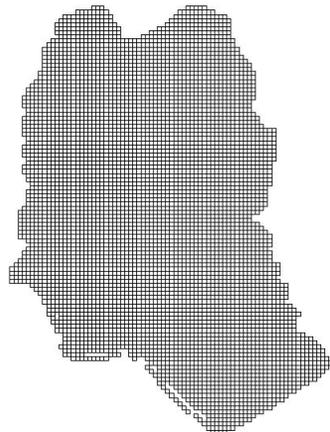


PBF-1

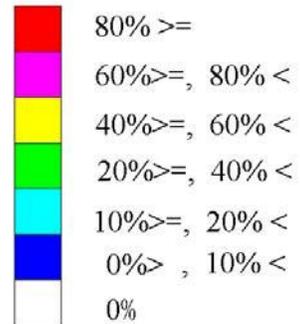


PBF-2

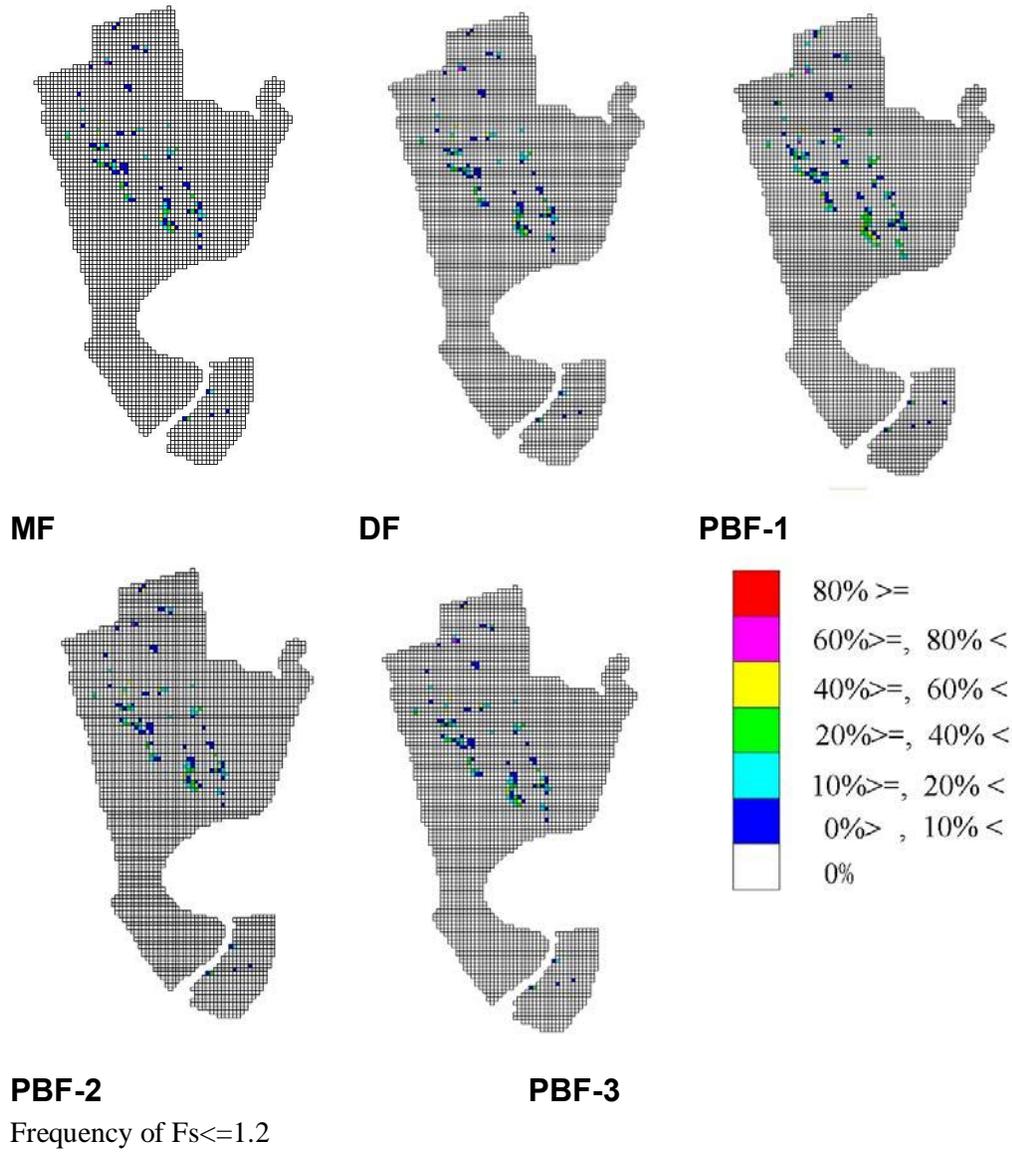
Frequency of $F_s \leq 1.2$



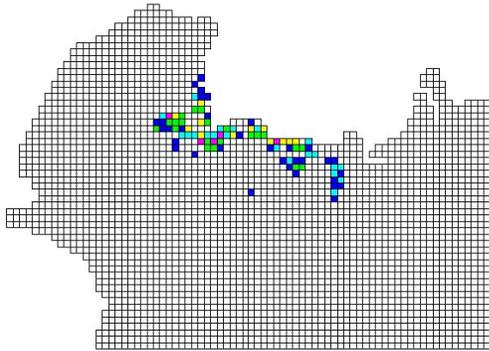
PBF-3



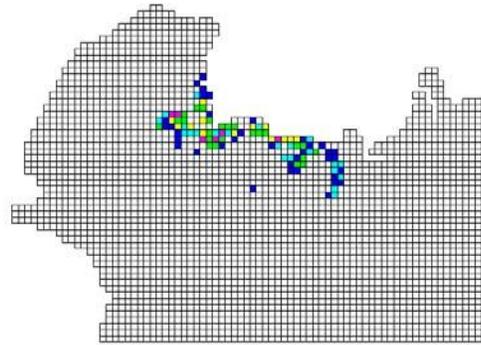
The Frequency of $F_s \leq 1.2$ by Koppula's Method in Chittagong



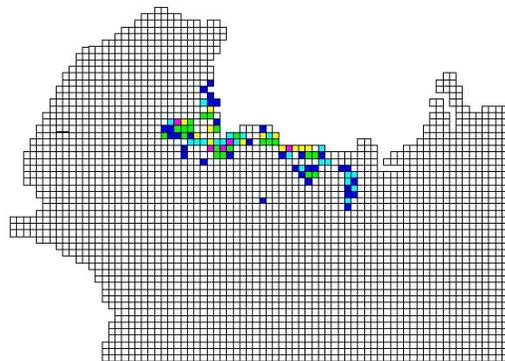
The Frequency of $F_s \leq 1.2$ by Koppula Method in Sylhet



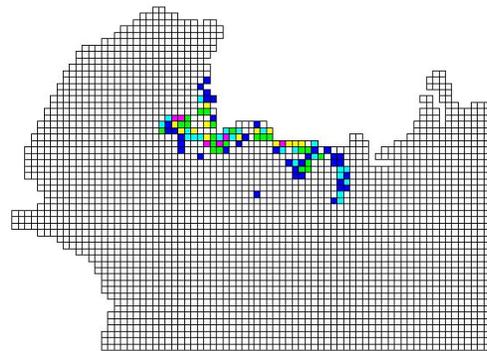
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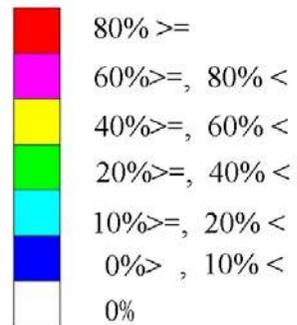
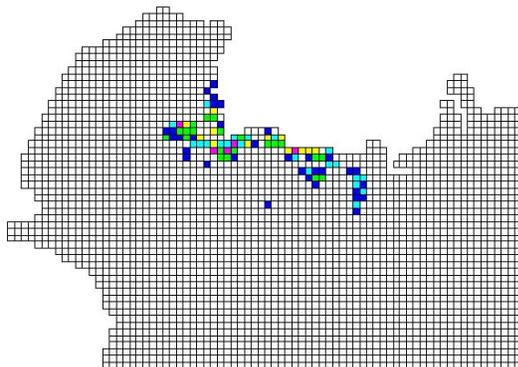
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PBF-1



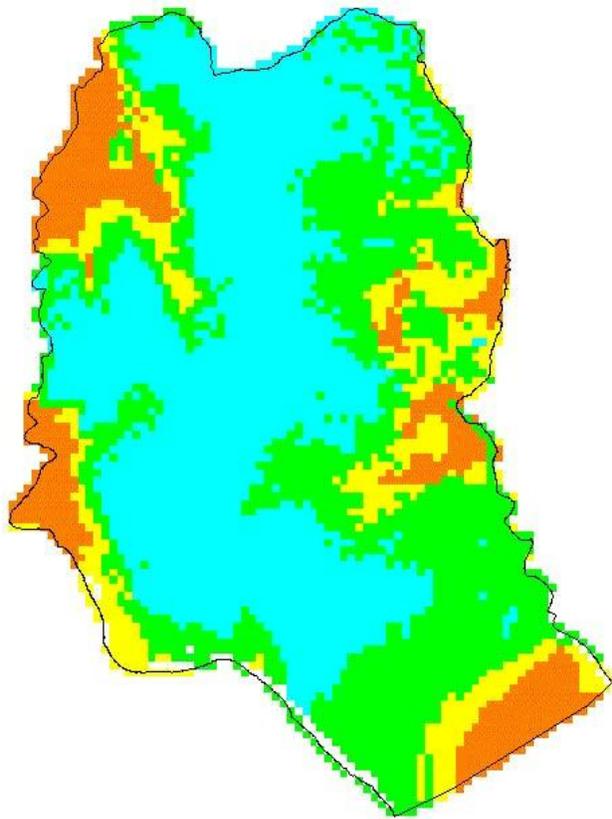
PBF-2



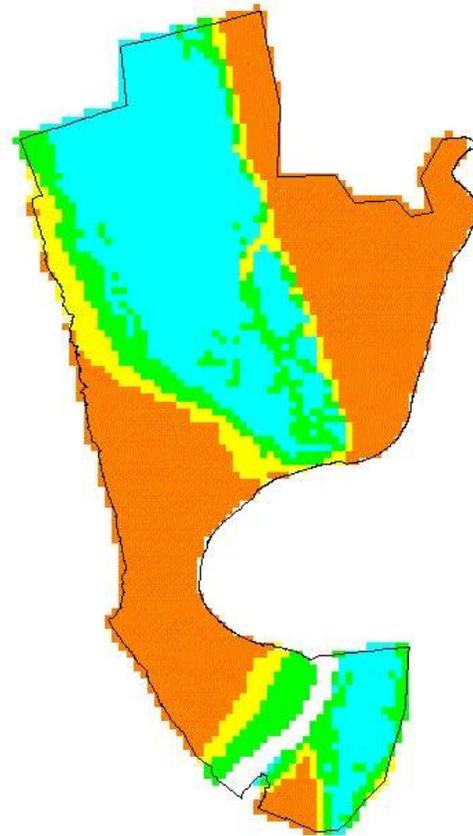
PBF-3

Frequency of $F_s \leq 1.2$

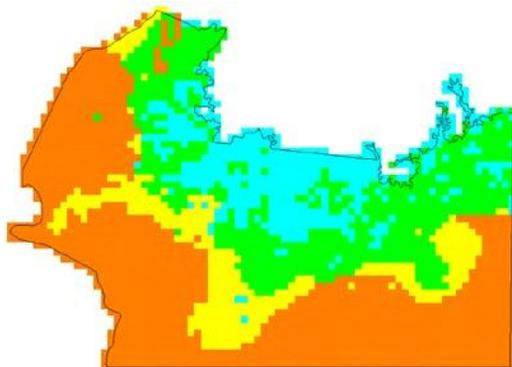
PGA at Ground Surface for M6 Earthquake occurring directly Underneath



Dhaka



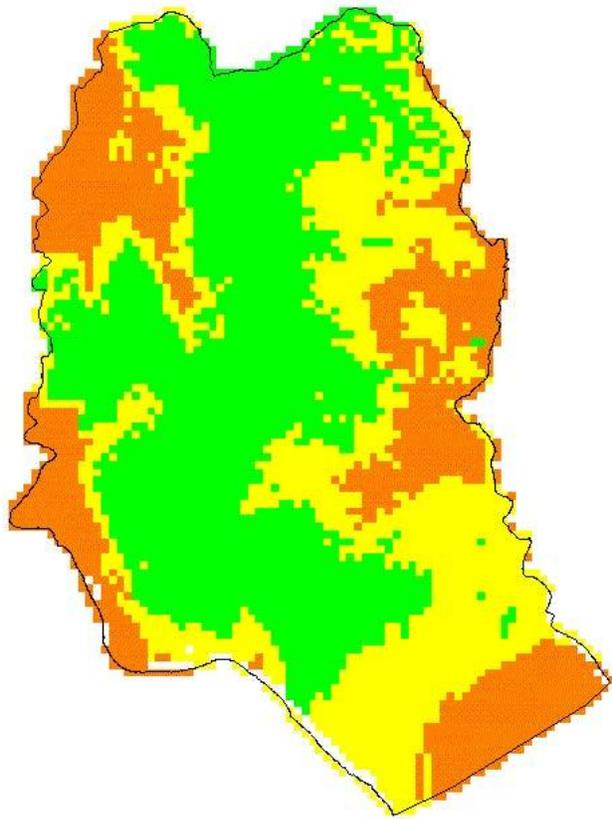
Chittagong



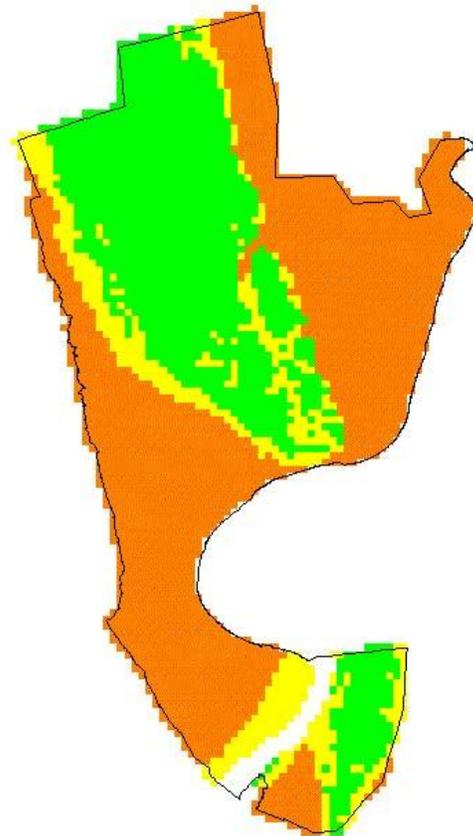
Sylhet



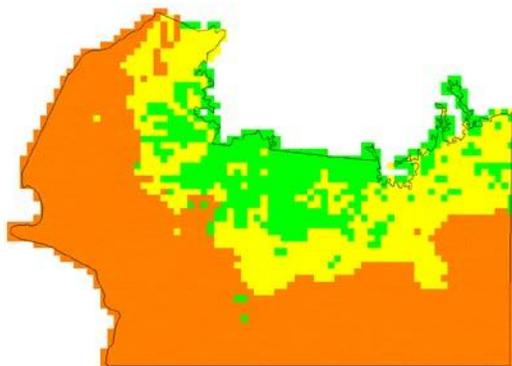
PGV at Ground Surface for M6 Earthquake occurring directly Underneath



Dhaka



Chittagong

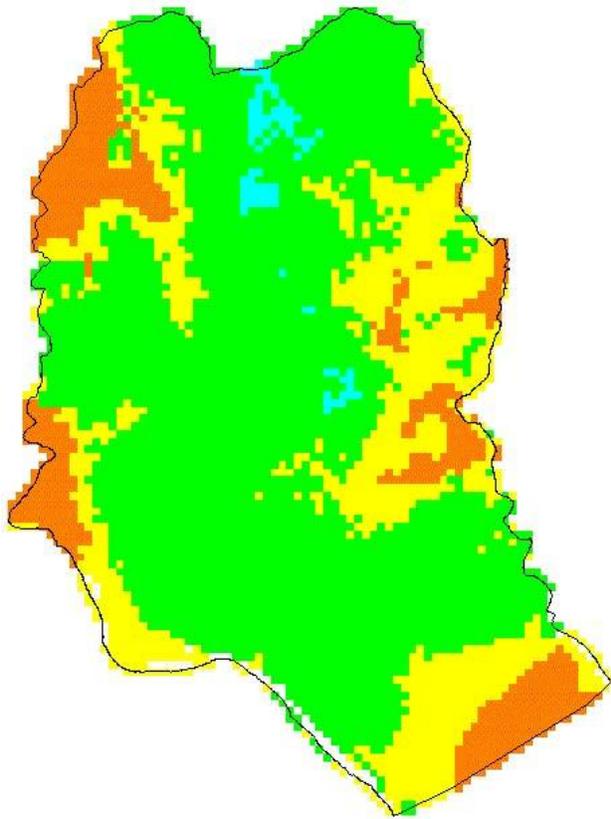


Sylhet

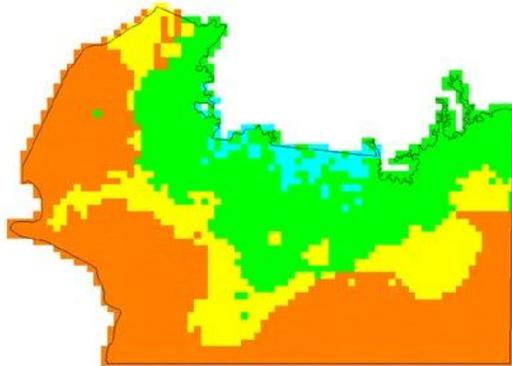
PGV (kine)

- 40 - 50
- 30 - 40
- 20 - 30

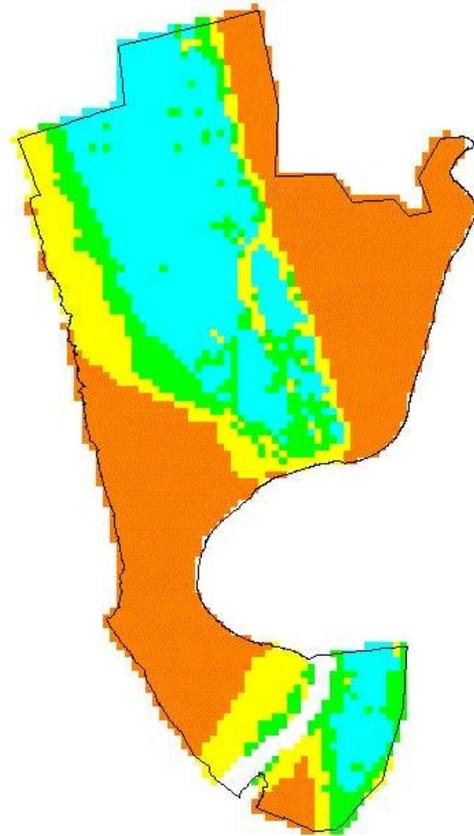
Sa(h=5%) for T=0.3 sec at Ground Surface for M6 Earthquake occurring directly Underneath



Dhaka



Sylhet

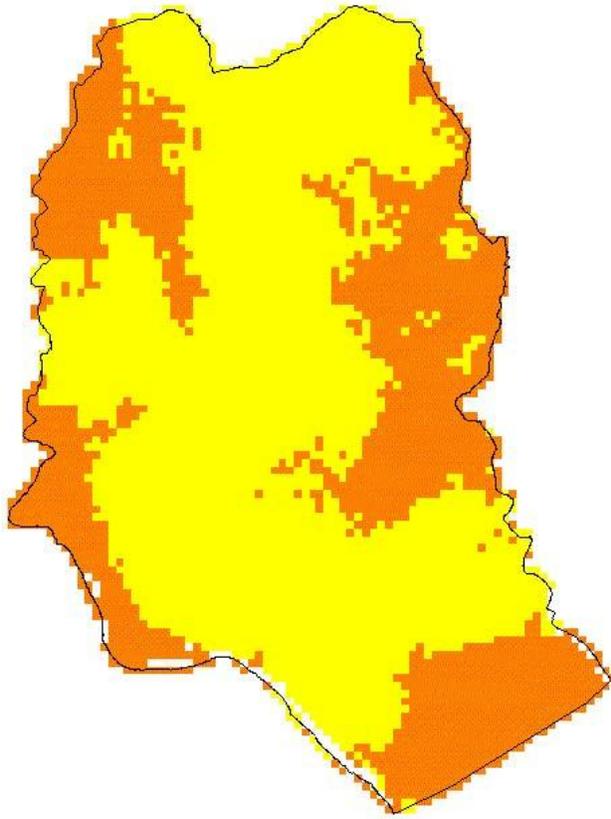


Chittagong

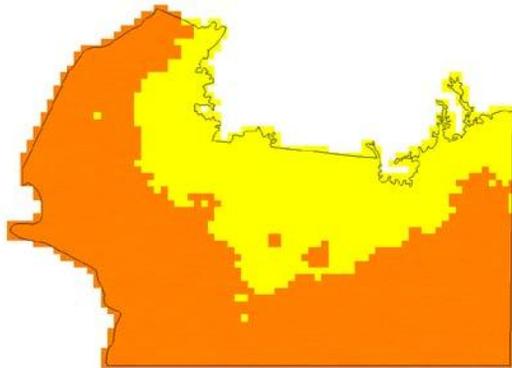
Sa(h=5%) (gal)

- 800 - 900
- 700 - 800
- 600 - 700
- 500 - 600

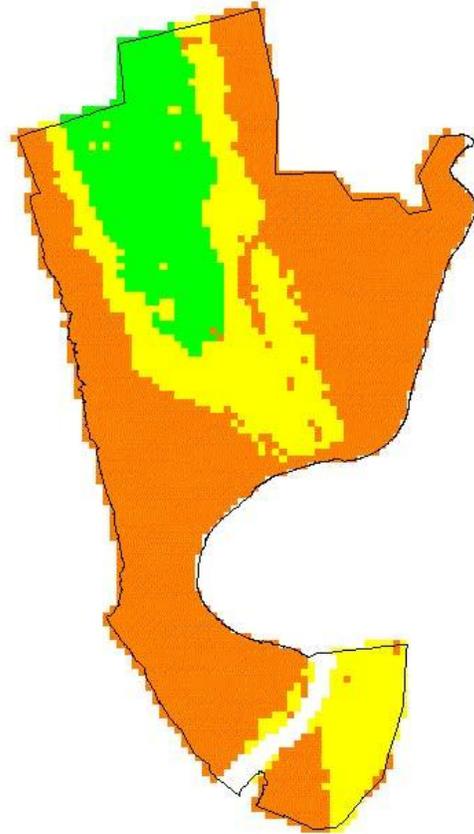
Sa(h=5%) for T=1.0 sec at Ground Surface for M6 Earthquake occurring directly Underneath



Dhaka



Sylhet

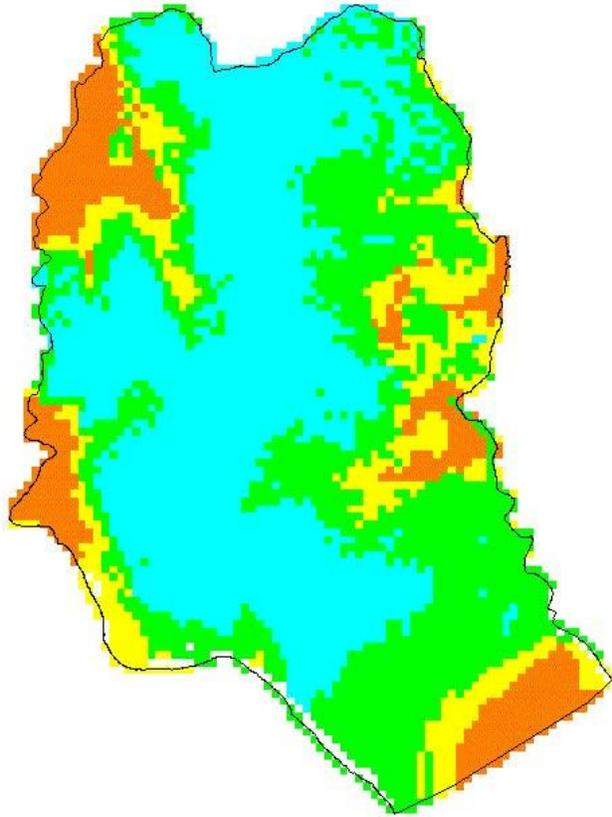


Chittagong

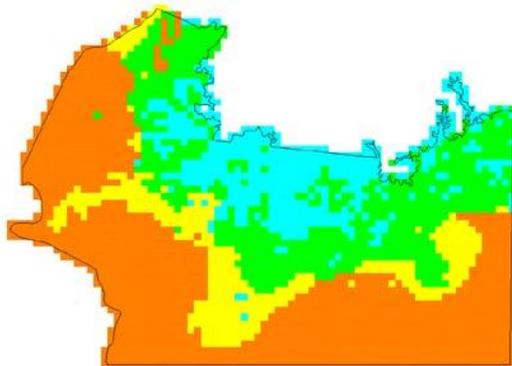
Sa(h=5%) (gal)

- 300 - 400
- 200 - 300
- 100 - 200

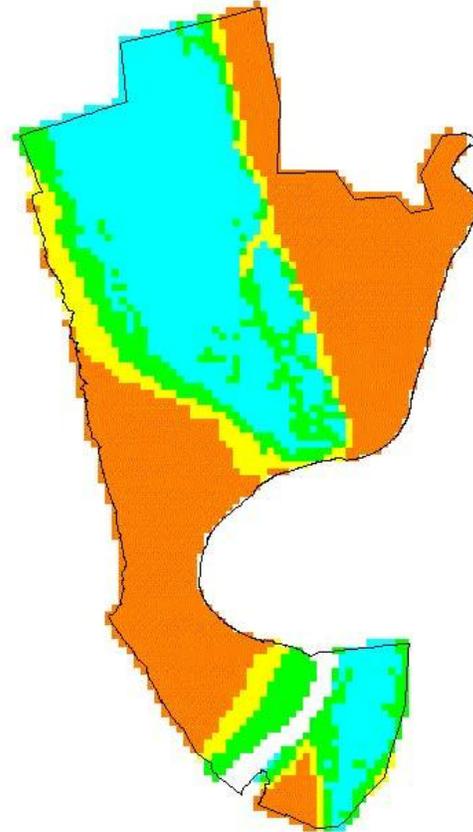
PGA and Sa(0.3 sec) Amplification for M6 Earthquake occurring directly Underneath



Dhaka

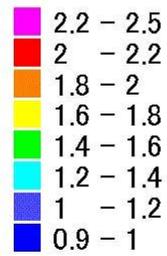


Sylhet

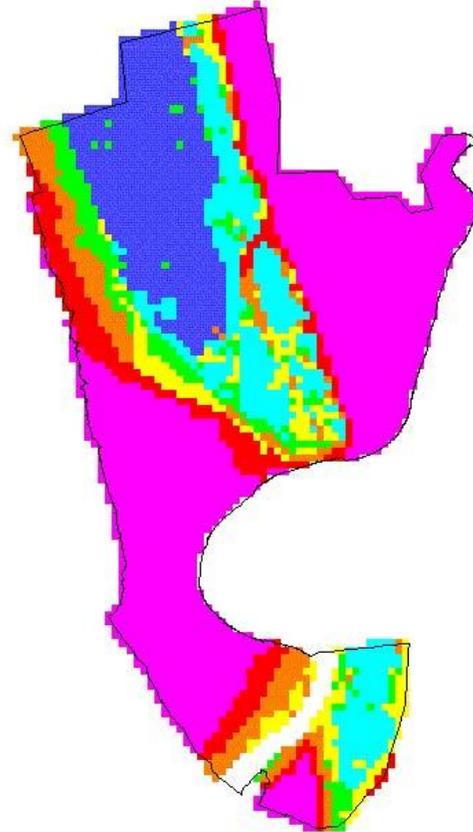
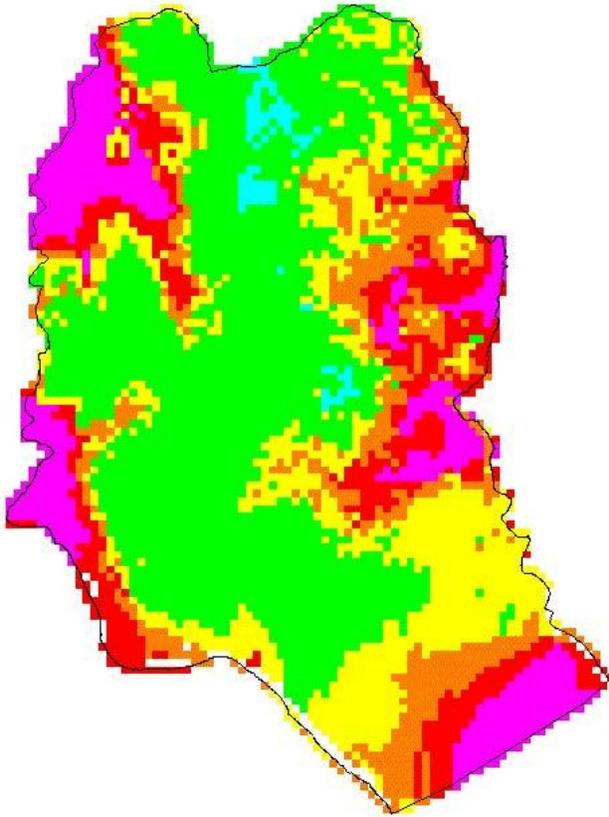


Chittagong

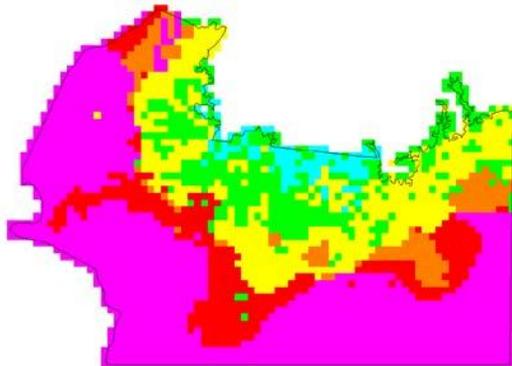
Short Period Amp.



PGV and Sa(1.0 sec) Amplification for M6 Earthquake occurring directly Underneath



Dhaka



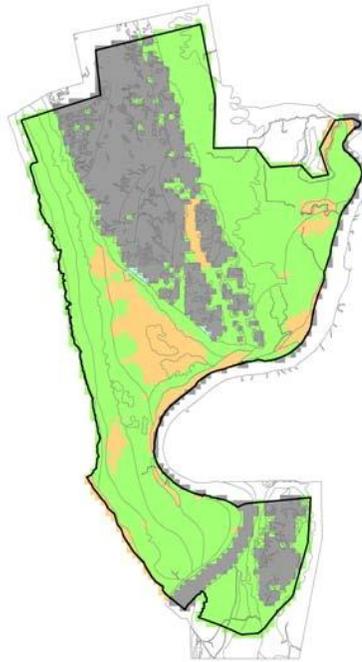
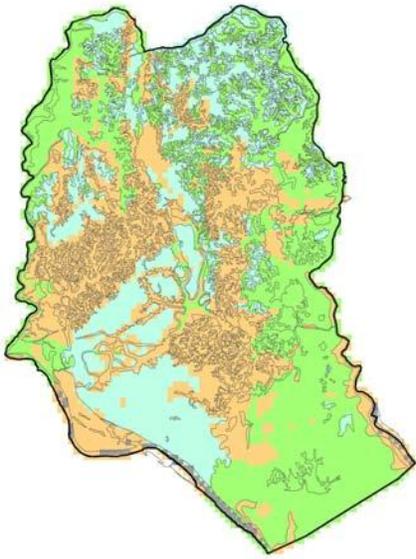
Chittagong

Long Period Amp.

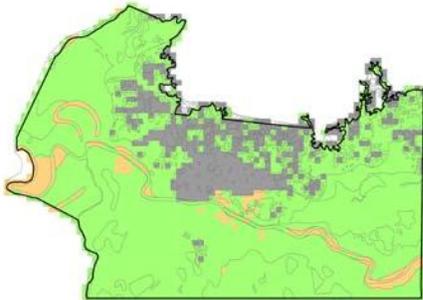
- 3.2 - 3.5
- 3 - 3.3
- 2.7 - 3
- 2.4 - 2.7
- 2.1 - 2.4
- 1.8 - 2.1
- 1.5 - 1.8
- 1.3 - 1.5

Sylhet

Liquefaction Probability for M6 Earthquake occurring directly Underneath



Dhaka



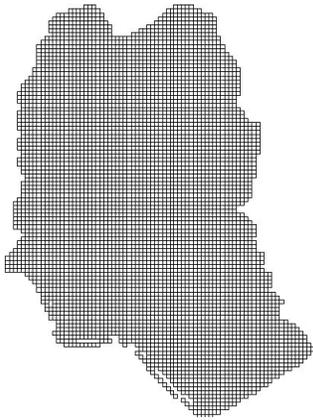
Chittagong

Liquefaction Probability

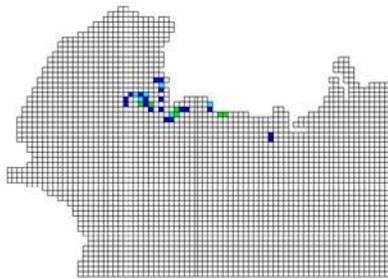
- None
- Very Low
- Low
- Moderate
- High
- Very High

Sylhet

Slope Hazard Probability

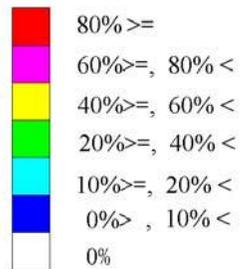


Dhaka



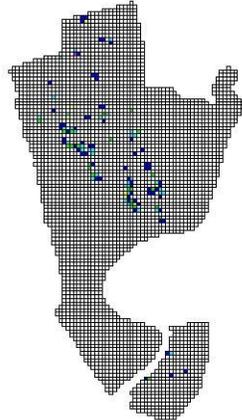
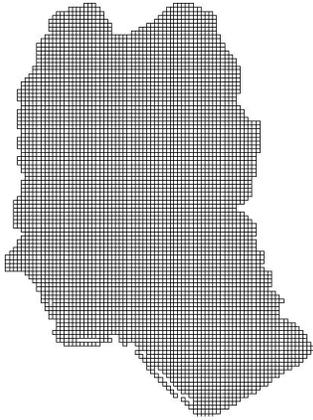
Chittagong

Frequency of $F_s \leq 1.2$

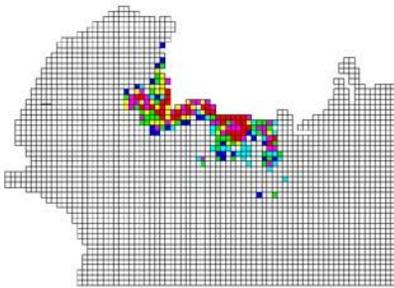


Sylhet

[The Frequency of $F_s \leq 1.2$ by Wilson's Method]

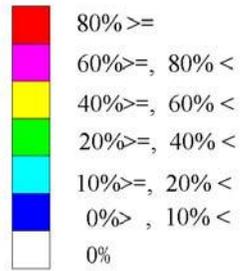


Dhaka



Chittagong

Frequency of $F_s \leq 1.2$



Sylhet

[The Frequency of $F_s \leq 1.2$ by Koppula's Method]