

References

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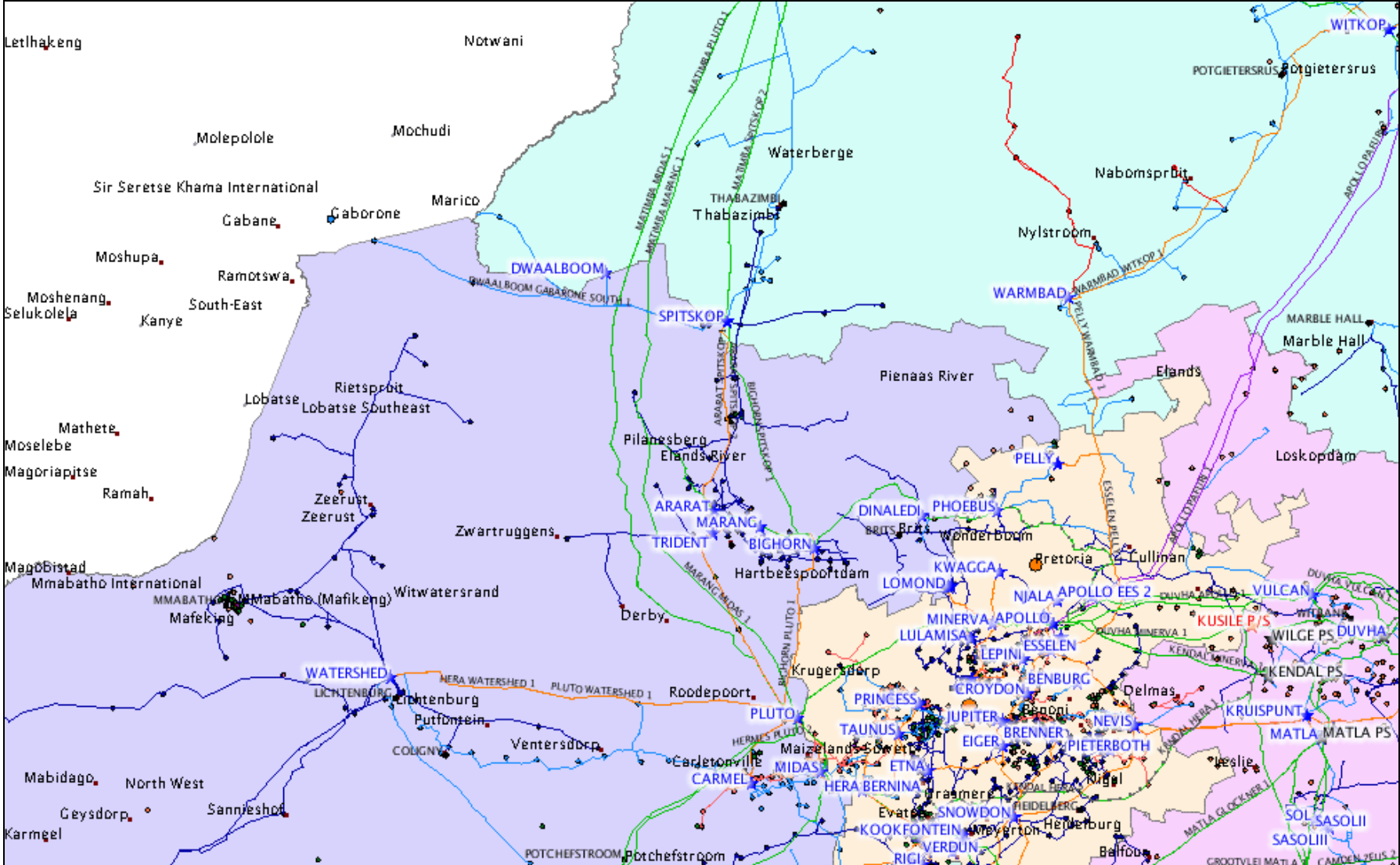
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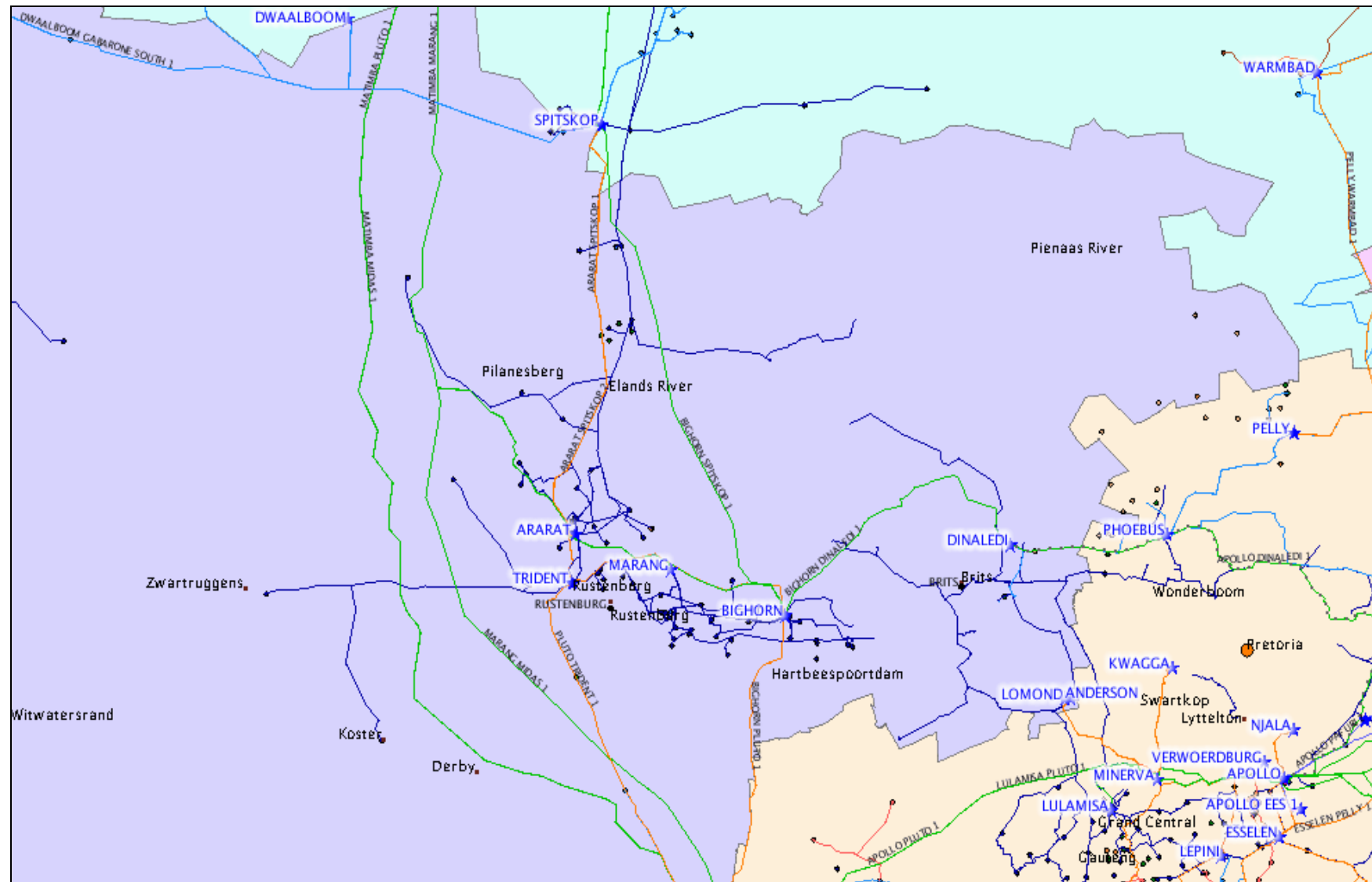
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Appendix A

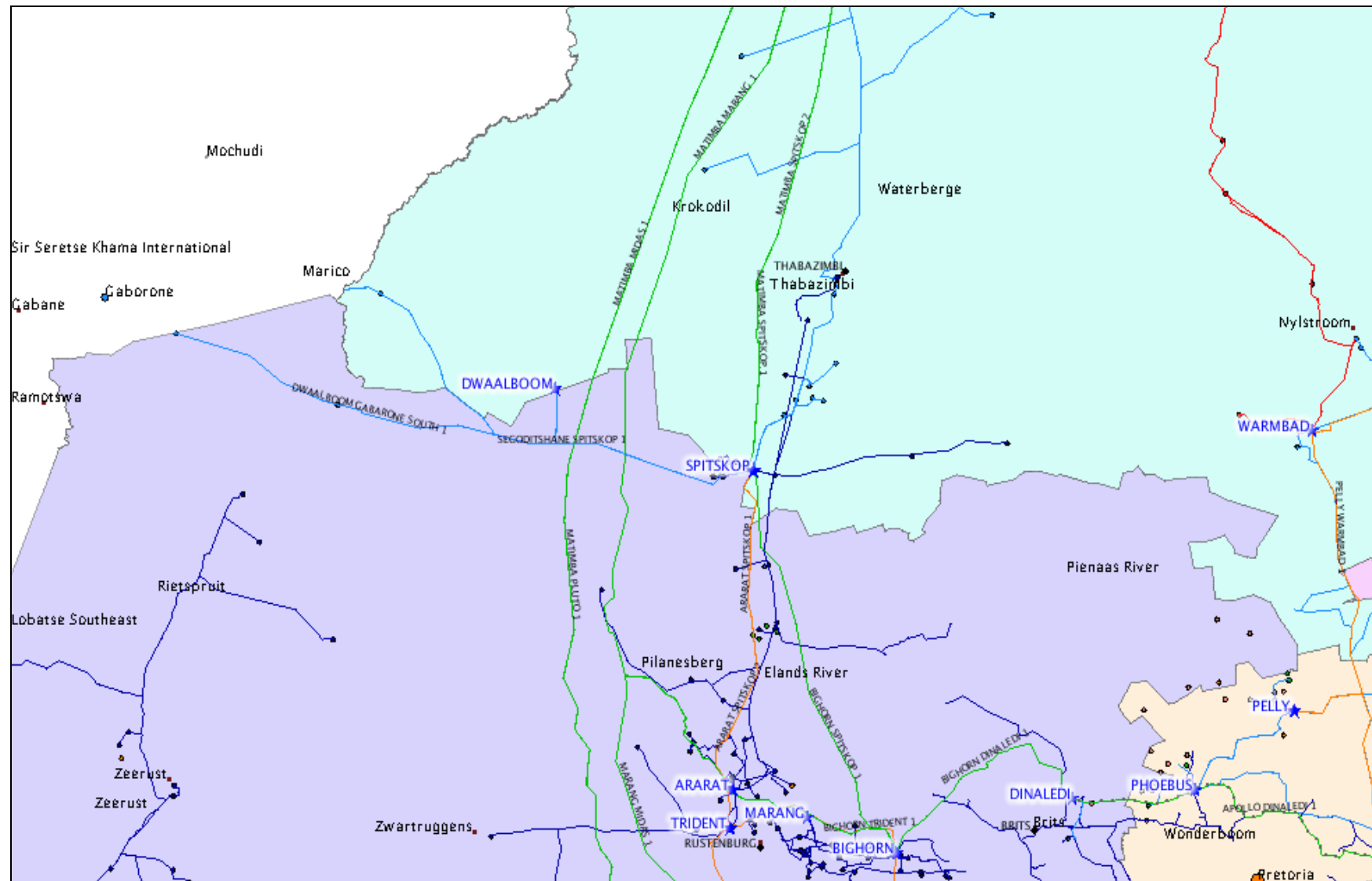
Distribution Maps



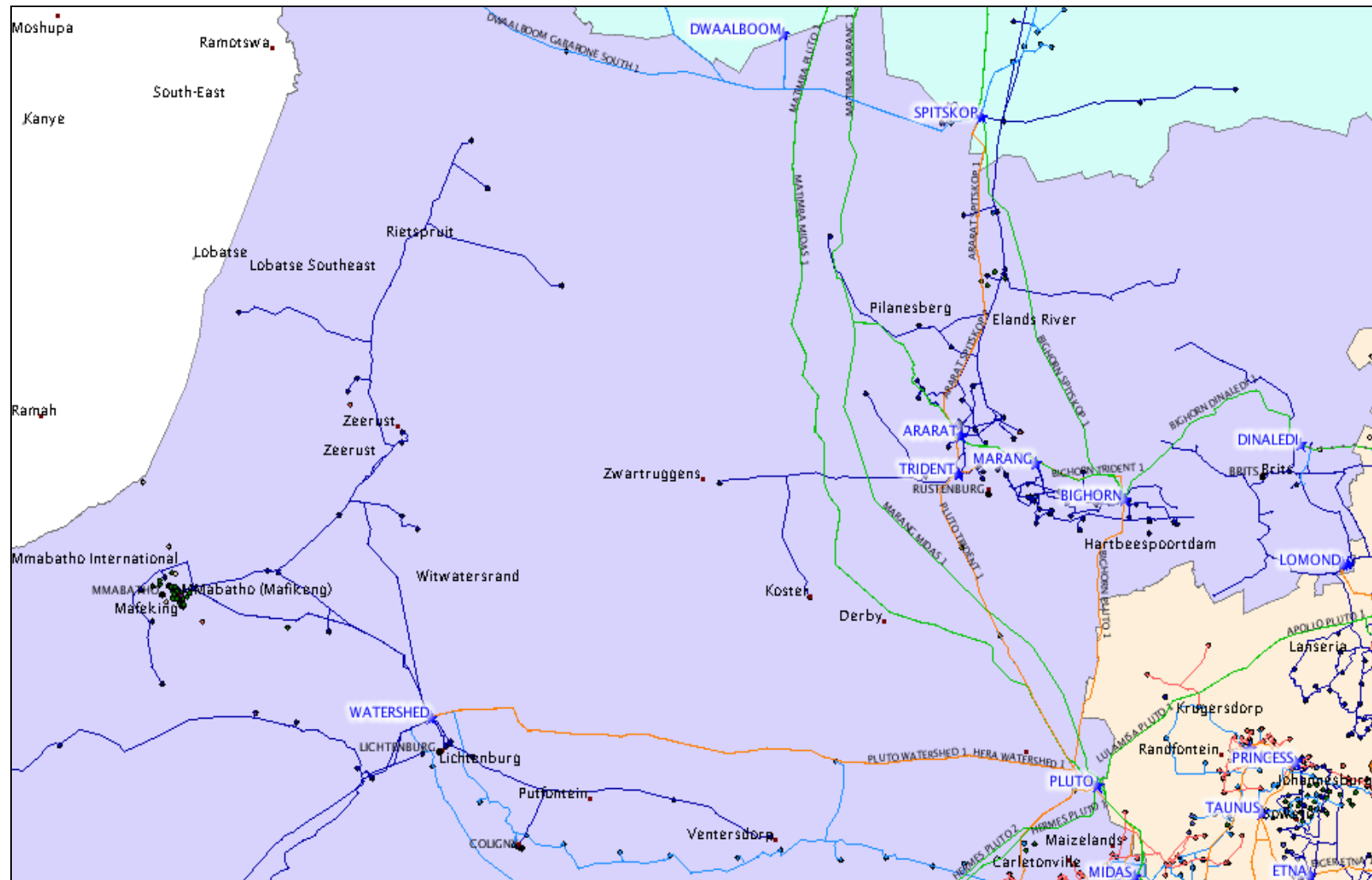
FigureA.1: Distribution - transmission map North West province.



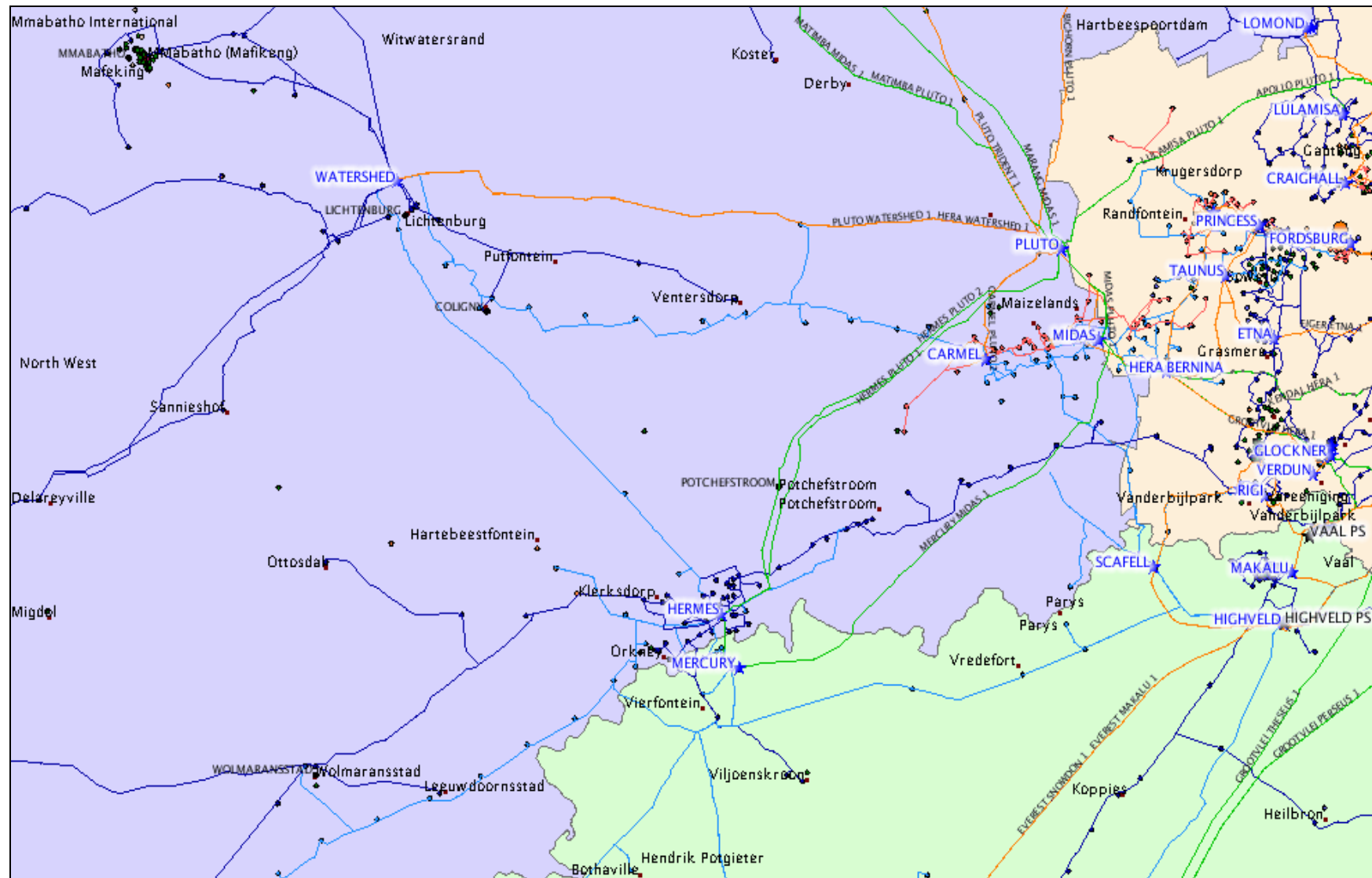
FigureA.2: Distribution - transmission map North West province.



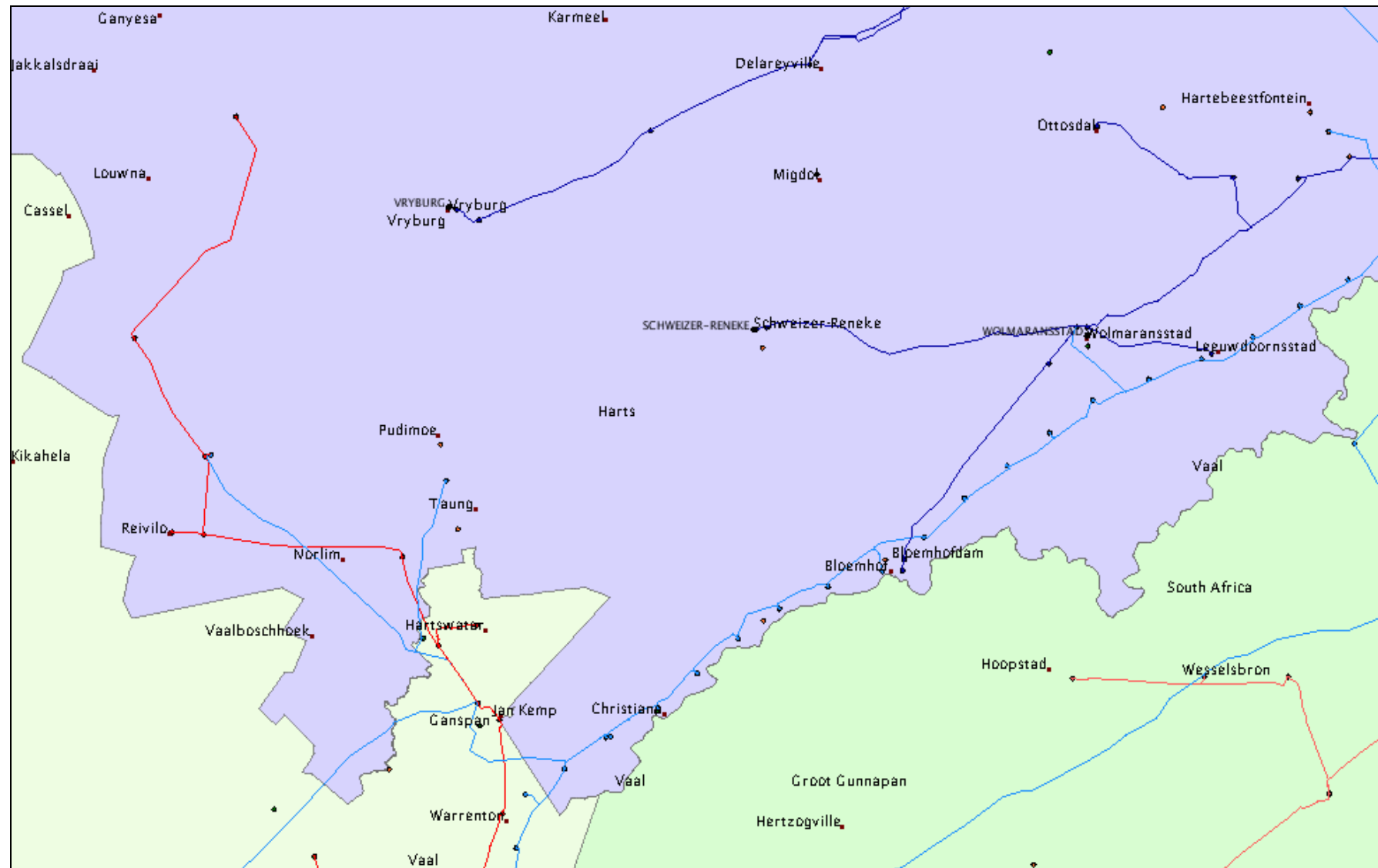
FigureA.3: Distribution - transmission map North West province.



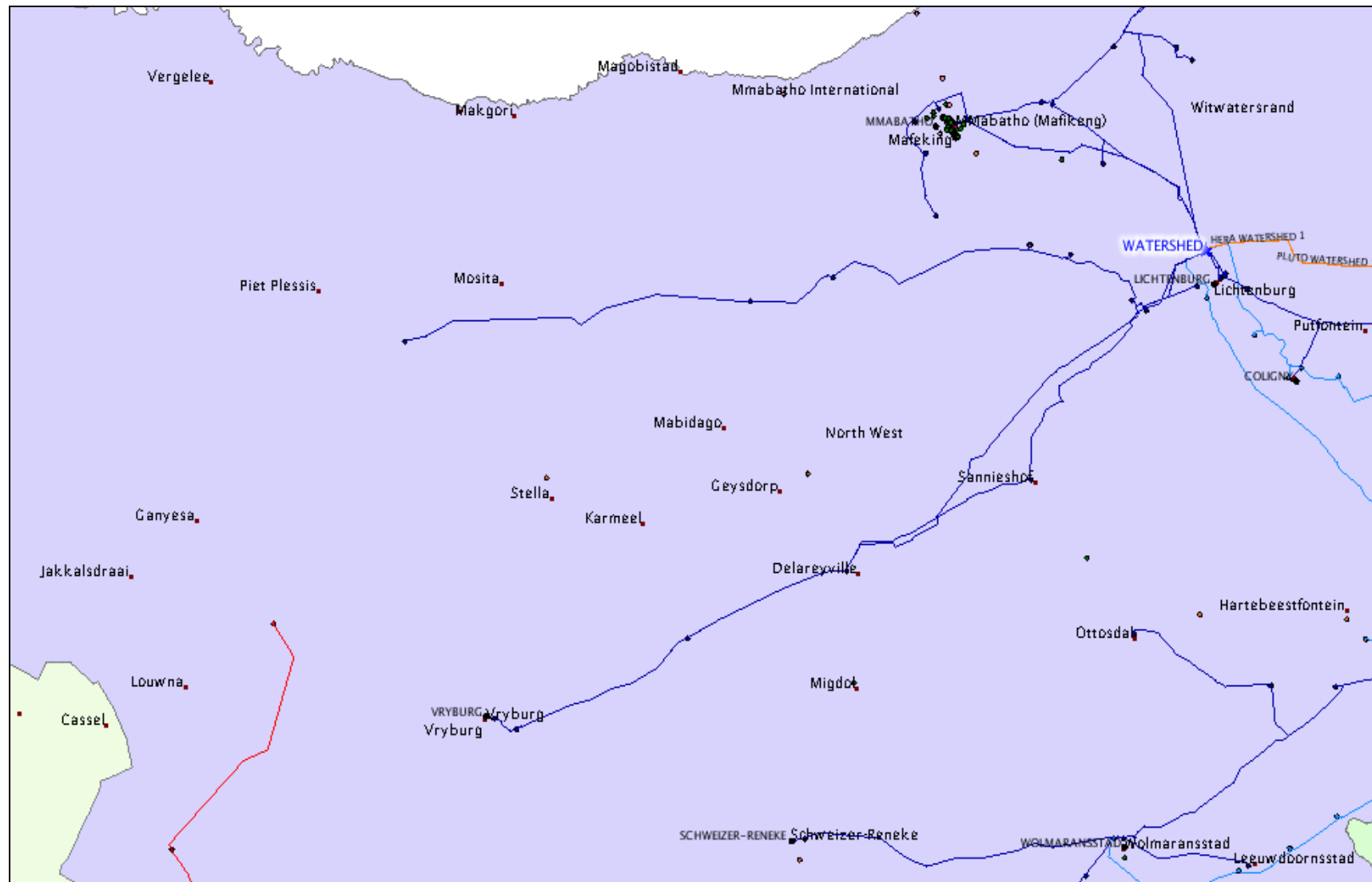
FigureA.4: Distribution - transmission map North West province.



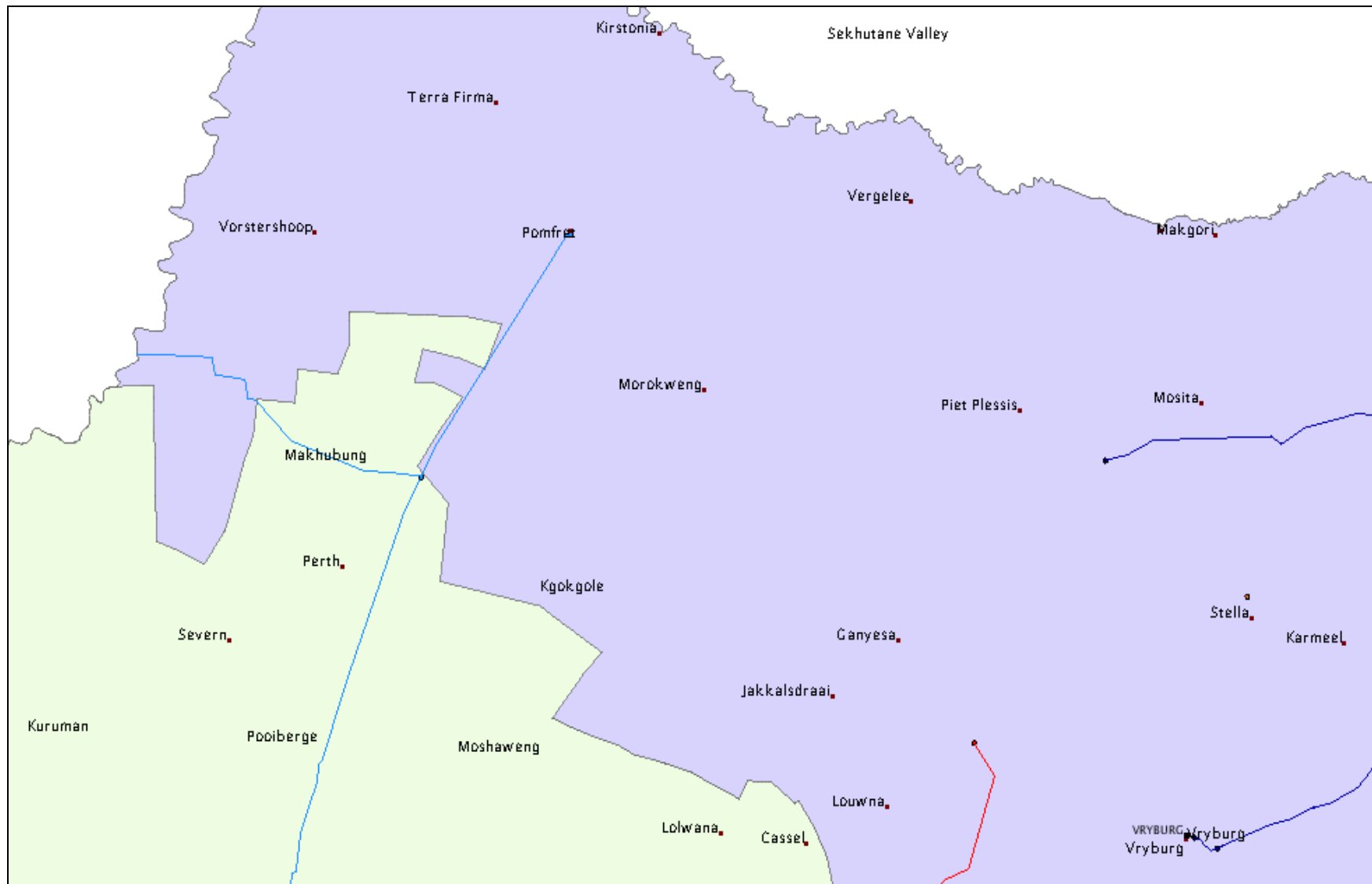
FigureA.5: Distribution - transmission map North West province.



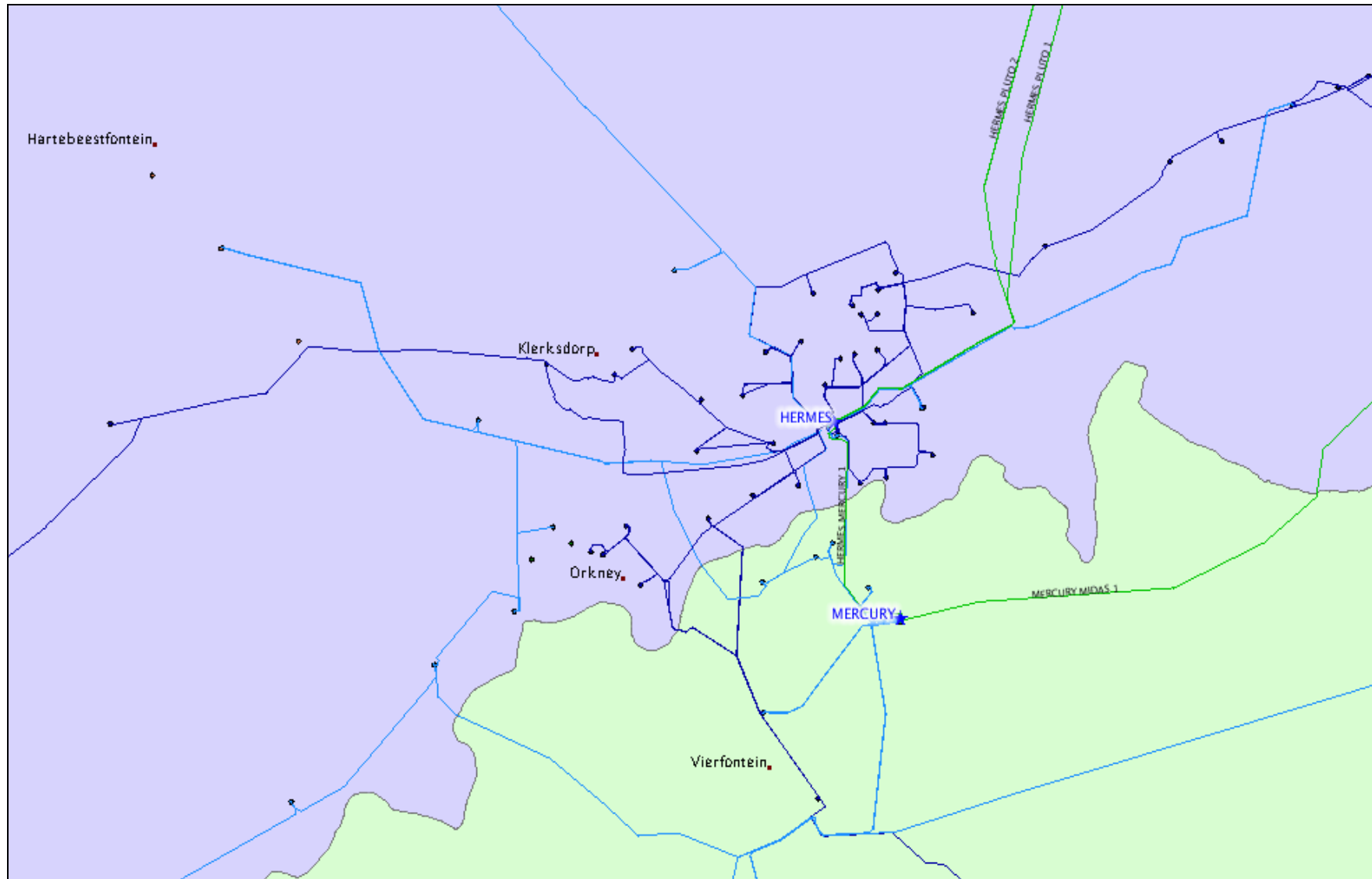
FigureA.6: Distribution - transmission map North West province.



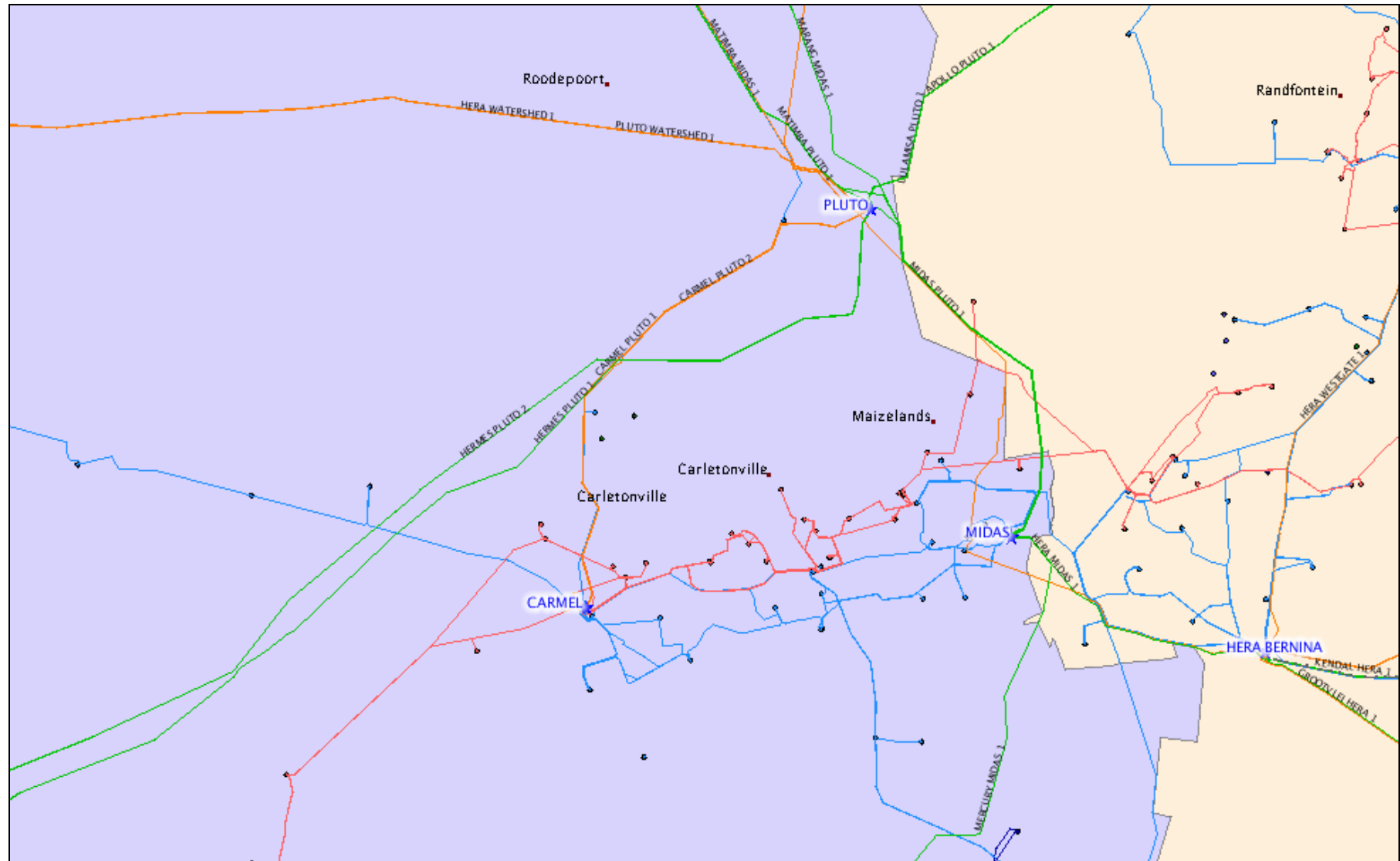
FigureA.7: Distribution - transmission map North West province.



FigureA.8: Distribution - transmission map North West province.



FigureA.9: Distribution - transmission map North West province.



FigureA.10: Distribution - transmission map North West province.

Appendix B

Program 1

data :=
 ..\1_Watershed April2007-April2009.xls

$\text{VTHD}_{\text{Blue}} := \text{data}^{\langle 1 \rangle}$
 $x_{\text{blue}} := \text{last}(\text{VTHD}_{\text{Blue}})$
 $\text{Range}_B := \text{submatrix}(\text{data}, 2, x_{\text{blue}}, 1, 1)$

$\text{VTHD}_{\text{Red}} := \text{data}^{\langle 2 \rangle}$
 $x_{\text{red}} := \text{last}(\text{VTHD}_{\text{Red}})$
 $\text{Range}_R := \text{submatrix}(\text{data}, 2, x_{\text{red}}, 2, 2)$

$\text{VTHD}_{\text{White}} := \text{data}^{\langle 3 \rangle}$
 $x_W := \text{last}(\text{VTHD}_{\text{White}})$
 $\text{Range}_W := \text{submatrix}(\text{data}, 2, x_W, 3, 3)$

$$x_{\text{red}} = 4.321 \times 10^3$$

$$x_W = 4.321 \times 10^3$$

$$x_{\text{blue}} = 4.321 \times 10^3$$

SAMPLE COUNT ABOVE ZERO

$N_B(\text{Range}_B) :=$

$X \leftarrow \text{Range}_B$
$I \leftarrow 0$
$Q \leftarrow 0$
while $I \leq \text{last}(X)$
$Z \leftarrow Z + 1$ if $X_I > 0$
$I \leftarrow I + 1$
Z

$N_R(\text{Range}_R) :=$

$X \leftarrow \text{Range}_R$
$I \leftarrow 0$
$Z \leftarrow 0$
while $I \leq \text{last}(X)$
$Z \leftarrow Z + 1$ if $X_I > 0$
$I \leftarrow I + 1$
Z

$N_W(\text{Range}_W) :=$	$X \leftarrow \text{Range}_W$ $I \leftarrow 0$ $Z \leftarrow 0$ while $I \leq \text{last}(X)$ $Z \leftarrow Z + 1$ if $X_I > 0$ $I \leftarrow I + 1$ Z	$N_B(\text{Range}_B) = 4.264 \times 10^3$ $N_R(\text{Range}_R) = 4.318 \times 10^3$ $N_W(\text{Range}_W) = 4.317 \times 10^3$
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ELIMINATING NON ZERO READINGS ACCROSS ALL PHASES

$N_BLUE(\text{Range}_B, \text{Range}_R, \text{Range}_W) :=$	$X \leftarrow \text{Range}_B$ $Y \leftarrow \text{Range}_R$ $Z \leftarrow \text{Range}_W$ $I \leftarrow 0$ $J \leftarrow 0$ while $I \leq \text{last}(X)$ $X_{1_I} \leftarrow 1$ if $X_I = Y_I = Z_I = 0$ $X_{1_I} \leftarrow 0$ otherwise $N_J \leftarrow X_I$ if $X_{1_I} = 0$ $J \leftarrow J + 1$ if $X_{1_I} = 0$ $I \leftarrow I + 1$ N	
--	--	--

$N_WHITE(\text{Range}_B, \text{Range}_R, \text{Range}_W) :=$	$X \leftarrow \text{Range}_B$ $Y \leftarrow \text{Range}_R$ $Z \leftarrow \text{Range}_W$ $I \leftarrow 0$ $J \leftarrow 0$ while $I \leq \text{last}(Z)$ $Z_{1_I} \leftarrow 1$ if $X_I = Y_I = Z_I = 0$ $Z_{1_I} \leftarrow 0$ otherwise $N_J \leftarrow Z_I$ if $Z_{1_I} = 0$ $J \leftarrow J + 1$ if $Z_{1_I} = 0$ $I \leftarrow I + 1$ N	
---	--	--

```

N_RED(RangeB, RangeR, RangeW) :=
  X ← RangeB
  Y ← RangeR
  Z ← RangeW
  I ← 0
  J ← 0
  while I ≤ last(Y)
    Y_1_I ← 1 if X_I = Y_I = Z_I = 0
    Y_1_I ← 0 otherwise
    N_J ← Y_I if Y_1_I = 0
    J ← J + 1 if Y_1_I = 0
    I ← I + 1
  N

```

Data_B := N_BLUE(Range_B, Range_R, Range_W)

Data_R := N_RED(Range_B, Range_R, Range_W)

Data_W := N_WHITE(Range_B, Range_R, Range_W)

```

SUM(DataB, DataR, DataW) :=
  i ← 0
  while i ≤ last(DataB)
    Z_i ← (DataB_i + DataR_i + DataW_i) / 3
    i ← i + 1
  Z

```

Data_{AV} := SUM(Data_B, Data_R, Data_W)

H_B := histogram(30, Data_B)

H_W := histogram(30, Data_R)

H_R := histogram(30, Data_W)

H_{AVG} := histogram(30, Data_{AV})

$$\text{MEAN}_{\text{THD_BLUE}} := \text{mean}(\text{Data}_{\text{B}})$$

$$\text{last}(\text{Data}_{\text{R}}) = 4.317 \times 10^3$$

$$\text{MEAN}_{\text{THD_RED}} := \text{mean}(\text{Data}_{\text{R}})$$

$$\text{last}(\text{Data}_{\text{B}}) = 4.317 \times 10^3$$

$$\text{MEAN}_{\text{THD_WHITE}} := \text{mean}(\text{Data}_{\text{W}})$$

$$\text{last}(\text{Data}_{\text{W}}) = 4.317 \times 10^3$$

$$\text{MEAN}_{\text{AVG_THD}} := \text{mean}(\text{Data}_{\text{AV}})$$

$$\text{last}(\text{Data}_{\text{AV}}) = 4.317 \times 10^3$$

$$\text{SAMPLES} := 1 + \text{last}(\text{Data}_{\text{R}})$$

Cumulative Percentage Calculation Blue

$$\text{G_B} := \text{H}_{\text{B}}^{\langle 1 \rangle}$$

```

TEST(G_B) :=
  X ← G_B
  n ← 0
  for i ∈ 0..last(X)
    n ← n + Xi
  for i ∈ 0..last(X)
    Zi ←  $\frac{X_i}{n}$ 
  Y0 ← Z0
  j ← 0
  for i ∈ 1..last(Z)
    Yi ← (Zi + Yj)
    j ← j + 1
  for i ∈ 0..last(Y)
    Yi ← 100 · Yi
  Y

```

$$\text{B} := \text{TEST}(\text{G_B})$$

Cumulative Percentage Calculation

$$\text{G_R} := \text{H}_{\text{R}}^{\langle 1 \rangle}$$

```

TEST(G_R) :=
X ← G_R
n ← 0
for i ∈ 0..last(X)
  n ← n + Xi
for i ∈ 0..last(X)
  Zi ←  $\frac{X_i}{n}$ 
Y0 ← Z0
j ← 0
for i ∈ 1..last(Z)
  Yi ← (Zi + Yj)
  j ← j + 1
for i ∈ 0..last(Y)
  Yi ← 100 · Yi
Y

```

R := TEST(G_R)

Cumulative Percentage Calculation

$G_W := H_W^{\langle 1 \rangle}$

```

TEST(G_W) :=
X ← G_W
n ← 0
for i ∈ 0..last(X)
  n ← n + Xi
for i ∈ 0..last(X)
  Zi ←  $\frac{X_i}{n}$ 
Y0 ← Z0
j ← 0
for i ∈ 1..last(Z)
  Yi ← (Zi + Yj)
  j ← j + 1
for i ∈ 0..last(Y)
  Yi ← 100 · Yi
Y

```

$\underline{W} := \text{TEST}(G_W)$

Cumulative Percentage CP95% AND CP99% calc for AVG Histogram

$G_avg := H_{AVG}^{\langle 1 \rangle}$

$\underline{\text{TEST}}(G_avg) :=$

$X \leftarrow G_avg$ $n \leftarrow 0$ for $i \in 0..last(X)$ $n \leftarrow n + X_i$ for $i \in 0..last(X)$ $Z_i \leftarrow \frac{X_i}{n}$ $Y_0 \leftarrow Z_0$ $j \leftarrow 0$ for $i \in 1..last(Z)$ $Y_i \leftarrow (Z_i + Y_j)$ $j \leftarrow j + 1$ for $i \in 0..last(Y)$ $Y_i \leftarrow 100 \cdot Y_i$ Y	$X \leftarrow G_avg$ $n \leftarrow 0$ for $i \in 0..last(X)$ $n \leftarrow n + X_i$ for $i \in 0..last(X)$ $Z_i \leftarrow \frac{X_i}{n}$ $Y_0 \leftarrow Z_0$ $j \leftarrow 0$ for $i \in 1..last(Z)$ $Y_i \leftarrow (Z_i + Y_j)$ $j \leftarrow j + 1$ for $i \in 0..last(Y)$ $Y_i \leftarrow 100 \cdot Y_i$ Y
--	--

$AVG := \text{TEST}(G_avg)$

CP 95 % Calaculation AVG

$\underline{A}(AVG) :=$	$h \leftarrow AVG$ $i \leftarrow 0$ while $h_i < 95$ $w \leftarrow h_i$ $i \leftarrow i + 1$ w
-------------------------	---

$\underline{C}(AVG) :=$	$h \leftarrow AVG$ $i \leftarrow last(h)$ while $h_i > 95$ $w \leftarrow h_i$ $i \leftarrow i - 1$ w
-------------------------	---

```

D(AVG) :=
  h ← AVG
  i ← 0
  while hi < 95
    | w ← hi
    | i ← i + 1
  i - 1

```

```

F(AVG) :=
  h ← AVG
  i ← last(h)
  while hi > 95
    | w ← hi
    | i ← i - 1
  i + 1

```

$$D_{AVG} := \left(H_{AVG}^{(0)} \right)_{(D(AVG), 0)}$$

$$F_{AVG} := \left(H_{AVG}^{(0)} \right)_{(F(AVG), 0)}$$

$$D(AVG) = 25$$

$$F(AVG) = 26$$

$$A(AVG) = 94.859$$

$$C(AVG) = 99.143$$

$$D_{AVG} = 2.095$$

$$F_{AVG} = 2.163$$

$$CP_{95\%_AVG} := D_{AVG} - \frac{(D_{AVG} - F_{AVG})(A(AVG) - 95)}{(A(AVG) - C(AVG))}$$

CP 99 % Calaculation AVG

```

A(AVG) :=
  h ← AVG
  i ← 0
  while hi < 99
    | w ← hi
    | i ← i + 1
  w

```

```

C(AVG) :=
  h ← AVG
  i ← last(h)
  while hi > 99
    | w ← hi
    | i ← i - 1
  w

```

```

D(AVG) :=
  h ← AVG
  i ← 0
  while hi < 99
    | w ← hi
    | i ← i + 1
  i - 1

```

```

F(AVG) :=
  h ← AVG
  i ← last(h)
  while hi > 99
    | w ← hi
    | i ← i - 1
  i + 1

```

$$D_{AVG} := \left(H_{AVG}^{(0)} \right)_{(D(AVG), 0)}$$

$$F_{AVG} := \left(H_{AVG}^{(0)} \right)_{(F(AVG), 0)}$$

$$D(AVG) = 25$$

$$F(AVG) = 26$$

$$A(AVG) = 94.859$$

$$C(AVG) = 99.143$$

$$D_{AVG} = 2.095$$

$$F_{AVG} = 2.163$$

$$CP_{99\%_AVG} := D_{AVG} - \frac{(D_{AVG} - F_{AVG})(A(AVG) - 99)}{(A(AVG) - C(AVG))}$$

CP 95 % Calaculation Blue

$\overline{A(B)} :=$

$h \leftarrow B$
$i \leftarrow 0$
while $h_i < 95$
$w \leftarrow h_i$
$i \leftarrow i + 1$
w

$\overline{C(B)} :=$

$h \leftarrow B$
$i \leftarrow \text{last}(h)$
while $h_i > 95$
$w \leftarrow h_i$
$i \leftarrow i - 1$
w

$\overline{D(B)} :=$

$h \leftarrow B$
$i \leftarrow 0$
while $h_i < 95$
$w \leftarrow h_i$
$i \leftarrow i + 1$
$i - 1$

$\overline{F(B)} :=$

$h \leftarrow B$
$i \leftarrow \text{last}(h)$
while $h_i > 95$
$w \leftarrow h_i$
$i \leftarrow i - 1$
$i + 1$

$$D_B := \left(H_B^{\langle 0 \rangle} \right)_{(D(B), 0)}$$

$$F_B := \left(H_B^{\langle 0 \rangle} \right)_{(F(B), 0)}$$

$$D(B) = 25$$

$$F(B) = 26$$

$$A(B) = 89.301$$

$$C(B) = 95.415$$

$$D_B = 1.955$$

$$F_B = 2.032$$

$$CP_{95\%_BLUE} := D_B - \frac{(D_B - F_B)(A(B) - 95)}{(A(B) - C(B))}$$

CP 95 % Calaculation RED

$\overline{A(R)} :=$

$h \leftarrow R$
$i \leftarrow 0$
while $h_i < 95$
$w \leftarrow h_i$
$i \leftarrow i + 1$
w

$\overline{C(R)} :=$

$h \leftarrow R$
$i \leftarrow \text{last}(h)$
while $h_i > 95$
$w \leftarrow h_i$
$i \leftarrow i - 1$
w

```

D(R) :=
  h ← R
  i ← 0
  while hi < 95
    | w ← hi
    | i ← i + 1
  i - 1

```

```

F(R) :=
  h ← R
  i ← last(h)
  while hi > 95
    | w ← hi
    | i ← i - 1
  i + 1

```

$$D_R := \left(H_R^{\langle 0 \rangle} \right)_{(D(R), 0)}$$

$$F_R := \left(H_R^{\langle 0 \rangle} \right)_{(F(R), 0)}$$

$$CP_{95\%_RED} := D_R - \frac{(D_R - F_R)(A(R) - 95)}{(A(R) - C(R))}$$

$$D(R) = 26$$

$$F(R) = 27$$

$$A(R) = 92.543$$

$$C(R) = 97.383$$

$$D_R = 2.208$$

$$F_R = 2.292$$

CP 95 % Calaculation White

```

A(W) :=
  h ← W
  i ← 0
  while hi < 95
    | w ← hi
    | i ← i + 1
  w

```

```

C(W) :=
  h ← W
  i ← last(h)
  while hi > 95
    | w ← hi
    | i ← i - 1
  w

```

```

D(W) :=
  h ← W
  i ← 0
  while hi < 95
    | w ← hi
    | i ← i + 1
  i - 1

```

```

F(W) :=
  h ← W
  i ← last(h)
  while hi > 95
    | w ← hi
    | i ← i - 1
  i + 1

```

$$D_W := \left(H_W^{\langle 0 \rangle} \right)_{(D(W), 0)}$$

$$F_W := \left(H_W^{\langle 0 \rangle} \right)_{(F(W), 0)}$$

$$D(W) = 18$$

$$F(W) = 19$$

$$CP_{95\%_WHITE} := D_W - \frac{(D_W - F_W)(A(W) - 95)}{(A(W) - C(W))}$$

$$A(W) = 82.955$$

$$C(W) = 96.063$$

$$D_W = 1.925$$

$$F_W = 1.975$$

CP 99 % Calaculation BLUE

$\overline{A(B)} :=$ $\begin{array}{l} h \leftarrow B \\ i \leftarrow 0 \\ \text{while } h_i < 99 \\ \quad \left| \begin{array}{l} w \leftarrow h_i \\ i \leftarrow i + 1 \end{array} \right. \\ w \end{array}$

$\overline{C(B)} :=$ $\begin{array}{l} h \leftarrow B \\ i \leftarrow \text{last}(h) \\ \text{while } h_i > 99 \\ \quad \left| \begin{array}{l} w \leftarrow h_i \\ i \leftarrow i - 1 \end{array} \right. \\ w \end{array}$

$\overline{D(B)} :=$ $\begin{array}{l} h \leftarrow B \\ i \leftarrow 0 \\ \text{while } h_i < 99 \\ \quad \left| \begin{array}{l} w \leftarrow h_i \\ i \leftarrow i + 1 \end{array} \right. \\ i - 1 \end{array}$

$\overline{F(B)} :=$ $\begin{array}{l} h \leftarrow B \\ i \leftarrow \text{last}(h) \\ \text{while } h_i > 99 \\ \quad \left| \begin{array}{l} w \leftarrow h_i \\ i \leftarrow i - 1 \end{array} \right. \\ i + 1 \end{array}$

$$\overline{D_B} := \left(H_B^{\langle 0 \rangle} \right)_{(D(B), 0)}$$

$$\overline{F_B} := \left(H_B^{\langle 0 \rangle} \right)_{(F(B), 0)}$$

$$D(B) = 26$$

$$F(B) = 27$$

$$A(B) = 95.415$$

$$C(B) = 99.305$$

$$D_B = 2.032$$

$$F_B = 2.108$$

$$CP_{99\%_BLUE} := D_B - \frac{(D_B - F_B)(A(B) - 99)}{(A(B) - C(B))}$$

$$CP_{99\%_BLUE} = 2.102$$

CP 99 % Calaculation RED

$\overline{A(R)} :=$ $\begin{array}{l} h \leftarrow R \\ i \leftarrow 0 \\ \text{while } h_i < 99 \\ \quad \left| \begin{array}{l} w \leftarrow h_i \\ i \leftarrow i + 1 \end{array} \right. \\ w \end{array}$

$\overline{C(R)} :=$ $\begin{array}{l} h \leftarrow R \\ i \leftarrow \text{last}(h) \\ \text{while } h_i > 99 \\ \quad \left| \begin{array}{l} w \leftarrow h_i \\ i \leftarrow i - 1 \end{array} \right. \\ w \end{array}$

```

D(R) :=
  h ← R
  i ← 0
  while hi < 99
    | w ← hi
    | i ← i + 1
  i - 1

```

```

F(R) :=
  h ← R
  i ← last(h)
  while hi > 99
    | w ← hi
    | i ← i - 1
  i + 1

```

$$D_R := \left(H_R^{\langle 0 \rangle} \right)_{(D(R), 0)}$$

$$F_R := \left(H_R^{\langle 0 \rangle} \right)_{(F(R), 0)}$$

$$CP_{99\%_RED} := D_R - \frac{(D_R - F_R)(A(R) - 99)}{(A(R) - C(R))}$$

$$D(R) = 27$$

$$F(R) = 28$$

$$A(R) = 97.383$$

$$C(R) = 99.467$$

$$D_R = 2.292$$

$$F_R = 2.375$$

$$CP_{99\%_RED} = 2.356$$

CP 99 % Calaculation White

```

A(W) :=
  h ← W
  i ← 0
  while hi < 99
    | w ← hi
    | i ← i + 1
  w

```

```

C(W) :=
  h ← W
  i ← last(h)
  while hi > 99
    | w ← hi
    | i ← i - 1
  w

```

```

D(W) :=
  h ← W
  i ← 0
  while hi < 99
    | w ← hi
    | i ← i + 1
  i - 1

```

```

F(W) :=
  h ← W
  i ← last(h)
  while hi > 99
    | w ← hi
    | i ← i - 1
  i + 1

```

$$D_W := \left(H_W^{\langle 0 \rangle} \right)_{(D(W), 0)}$$

$$F_W := \left(H_W^{\langle 0 \rangle} \right)_{(F(W), 0)}$$

$$D(W) = 24$$

$$F(W) = 25$$

$$CP_{99\%_WHITE} := D_W - \frac{(D_W - F_W)(A(W) - 99)}{(A(W) - C(W))}$$

$$A(W) = 98.333$$

$$C(W) = 99.259$$

$$D_W = 2.225$$

$$F_W = 2.275$$

INDEX BLUE THRESHOLD 1 - 4

Index_{1B}(Data_B) :=

R ← Data _B	R ← Data _B
x ← last(Data _B)	x ← last(Data _B)
i ← 0	i ← 0
n ← 0	n ← 0
while i ≤ x	while i ≤ x
n ← n + 1 if R _i ≥ 1	n ← n + 1 if R _i ≥ 1
i ← i + 1	i ← i + 1
n	n

Index_{2B}(Data_B) :=

R ← Data _B	R ← Data _B
x ← last(Data _B)	x ← last(Data _B)
i ← 0	i ← 0
n ← 0	n ← 0
while i ≤ x	while i ≤ x
n ← n + 1 if R _i ≥ 2	n ← n + 1 if R _i ≥ 2
i ← i + 1	i ← i + 1
n	n

Index_{3B}(Data_B) :=

R ← Data _B	R ← Data _B
x ← last(Data _B)	x ← last(Data _B)
i ← 0	i ← 0
n ← 0	n ← 0
while i ≤ x	while i ≤ x
n ← n + 1 if R _i ≥ 3	n ← n + 1 if R _i ≥ 3
i ← i + 1	i ← i + 1
n	n

$$\text{Index}_{4B}(\text{Data}_B) := \begin{array}{|l} R \leftarrow \text{Data}_B \\ x \leftarrow \text{last}(\text{Data}_B) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 4 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{1B}(\text{Data}_B) = 3.825 \times 10^3$$

$$\text{Index}_{2B}(\text{Data}_B) = 462$$

$$\text{Index}_{3B}(\text{Data}_B) = 0$$

$$\text{Index}_{4B}(\text{Data}_B) = 0$$

INDEX WHITE THRESHOLD 1 - 4

$$\text{Index}_{1W}(\text{Data}_W) := \begin{array}{|l} R \leftarrow \text{Data}_W \\ x \leftarrow \text{last}(\text{Data}_W) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 1 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{2W}(\text{Data}_W) := \begin{array}{|l} R \leftarrow \text{Data}_W \\ x \leftarrow \text{last}(\text{Data}_W) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 2 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{3W}(\text{Data}_W) := \begin{array}{|l} R \leftarrow \text{Data}_W \\ x \leftarrow \text{last}(\text{Data}_W) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 3 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{4W}(\text{Data}_W) := \begin{array}{|l} R \leftarrow \text{Data}_W \\ x \leftarrow \text{last}(\text{Data}_W) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 4 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{1W}(\text{Data}_W) = 4.276 \times 10^3$$

$$\text{Index}_{2W}(\text{Data}_W) = 1.153 \times 10^3$$

$$\text{Index}_{3W}(\text{Data}_W) = 0$$

$$\text{Index}_{4W}(\text{Data}_W) = 0$$

INDEX RED THRESHOLD 1 - 4

$$\text{Index}_{1R}(\text{Data}_R) := \begin{array}{|l} R \leftarrow \text{Data}_R \\ x \leftarrow \text{last}(\text{Data}_R) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 1 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{2R}(\text{Data}_R) := \begin{array}{|l} R \leftarrow \text{Data}_R \\ x \leftarrow \text{last}(\text{Data}_R) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 2 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{3R}(\text{Data}_R) := \begin{array}{|l} R \leftarrow \text{Data}_R \\ x \leftarrow \text{last}(\text{Data}_R) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 3 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{4R}(\text{Data}_R) := \begin{array}{|l} R \leftarrow \text{Data}_R \\ x \leftarrow \text{last}(\text{Data}_R) \\ i \leftarrow 0 \\ n \leftarrow 0 \\ \text{while } i \leq x \\ \quad \left| \begin{array}{l} n \leftarrow n + 1 \text{ if } R_i \geq 4 \\ i \leftarrow i + 1 \end{array} \right. \\ n \end{array}$$

$$\text{Index}_{1R}(\text{Data}_R) = 4.318 \times 10^3$$

$$\text{Index}_{2R}(\text{Data}_R) = 736$$

$$\text{Index}_{3R}(\text{Data}_R) = 0$$

$$\text{Index}_{4R}(\text{Data}_R) = 0$$

$$\text{IN_B_1} := \frac{\text{Index}_{1B}(\text{Data}_B)}{\text{last}(\text{Data}_B) + 1}$$

$$\text{IN_R_1} := \frac{\text{Index}_{1R}(\text{Data}_R)}{\text{last}(\text{Data}_R) + 1}$$

$$\text{IN_W_1} := \frac{\text{Index}_{1W}(\text{Data}_W)}{\text{last}(\text{Data}_W) + 1}$$

$$IN_B_2 := \frac{Index_{2B}(Data_B)}{last(Data_B) + 1}$$

$$IN_R_2 := \frac{Index_{2R}(Data_R)}{last(Data_R) + 1}$$

$$IN_W_2 := \frac{Index_{2W}(Data_W)}{last(Data_W) + 1}$$

$$IN_B_3 := \frac{Index_{3B}(Data_B)}{last(Data_B) + 1}$$

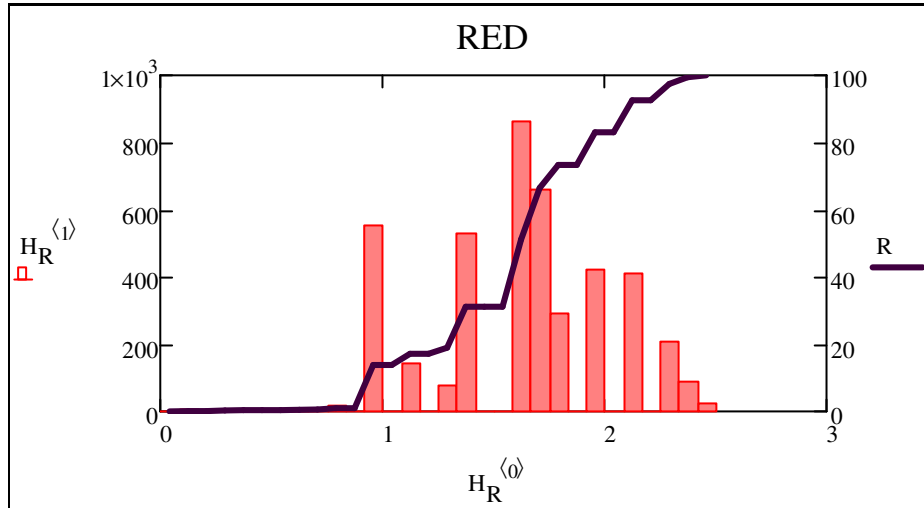
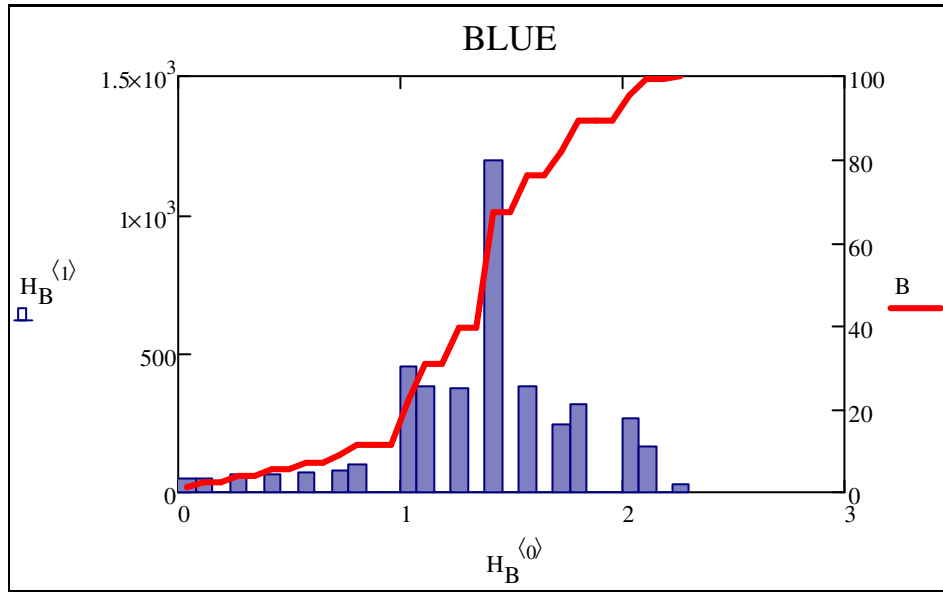
$$IN_R_3 := \frac{Index_{3R}(Data_R)}{last(Data_R) + 1}$$

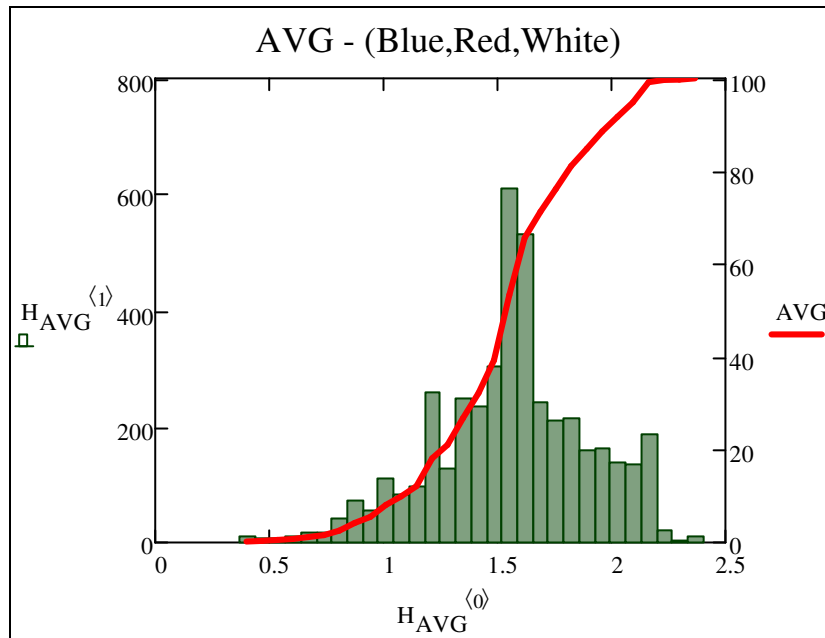
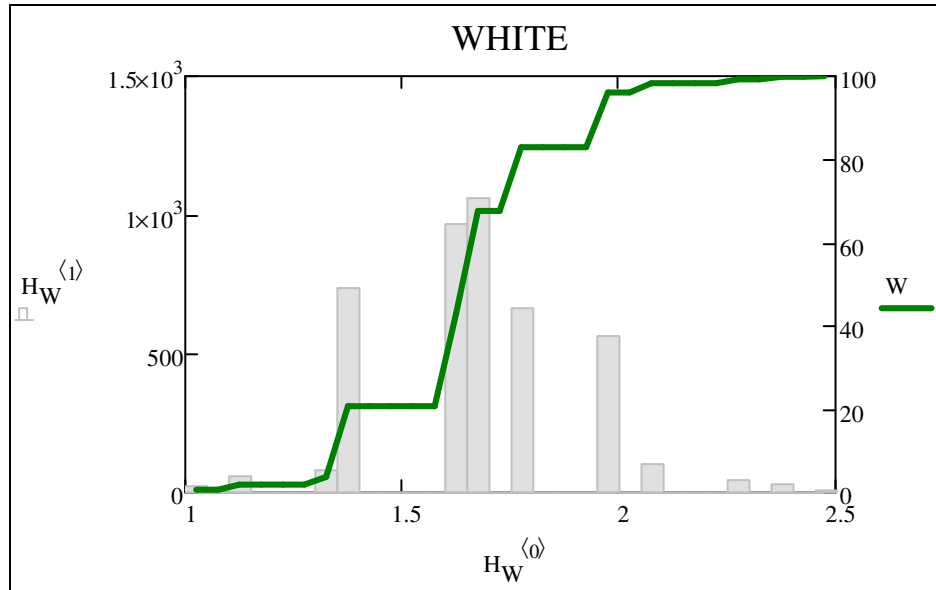
$$IN_W_3 := \frac{Index_{3W}(Data_W)}{last(Data_W) + 1}$$

$$IN_B_4 := \frac{Index_{4B}(Data_B)}{last(Data_B) + 1}$$

$$IN_R_4 := \frac{Index_{4R}(Data_R)}{last(Data_R) + 1}$$

$$IN_W_4 := \frac{Index_{4W}(Data_W)}{last(Data_W) + 1}$$



CP_{95%}_BLUE = 2.026CP_{99%}_BLUE = 2.102MEAN_{THD_BLUE} = 1.352CP_{95%}_RED = 2.251CP_{99%}_RED = 2.356MEAN_{THD_RED} = 1.682CP_{95%}_WHITE = 1.971CP_{99%}_WHITE = 2.261MEAN_{THD_WHITE} = 1.637CP_{95%}_AVG = 2.097CP_{99%}_AVG = 2.161MEAN_{AVG_THD} = 1.557

NUMBER OF THD READINGS OVER THRESHOLD LIMIT : 1

$$\text{Index}_{1B}(\text{Data}_B) = 3.825 \times 10^3$$

$$\text{Index}_{1R}(\text{Data}_R) = 4.318 \times 10^3$$

$$\text{Index}_{1W}(\text{Data}_W) = 4.276 \times 10^3$$

NUMBER OF THD READINGS OVER THRESHOLD LIMIT : 2

$$\text{Index}_{2B}(\text{Data}_B) = 462$$

$$\text{Index}_{2R}(\text{Data}_R) = 736$$

$$\text{Index}_{2W}(\text{Data}_W) = 1.153 \times 10^3$$

NUMBER OF THD READINGS OVER THRESHOLD LIMIT : 3

$$\text{Index}_{3B}(\text{Data}_B) = 0$$

$$\text{Index}_{3R}(\text{Data}_R) = 0$$

$$\text{Index}_{3W}(\text{Data}_W) = 0$$

NUMBER OF THD READINGS OVER THRESHOLD LIMIT : 4

$$\text{Index}_{4B}(\text{Data}_B) = 0$$

$$\text{Index}_{4R}(\text{Data}_R) = 0$$

$$\text{Index}_{4W}(\text{Data}_W) = 0$$

EXCEL EXPORT FILE

CP.95%_BLUE	2.026468	Bins B	Freq B	Bins R	Freq R	Bins W
CP.95%_RED	2.250638	0.038333	54	0.041667	1	1.025
CP.95%_WHITE	1.970945	0.115	49	0.125	4	1.075
CP.95%_AVG	2.097235	0.191667	0	0.208333	0	1.125
MEAN.THD_BLUE	1.351667	0.268333	68	0.291667	8	1.175
MEAN.THD_RED	1.682237	0.345	0	0.375	4	1.225
MEAN.THD_WHITE	1.637077	0.421667	67	0.458333	0	1.275
MEAN.AVG_THD	1.556994	0.498333	0	0.541667	0	1.325
INDEX B1 (%)	0.885827	0.575	69	0.625	5	1.375
INDEX B2 (%)	0.106994	0.651667	0	0.708333	4	1.425
INDEX B3 (%)	0	0.728333	82	0.791667	16	1.475
INDEX B4 (%)	0	0.805	104	0.875	0	1.525
INDEX R1 (%)	1	0.881667	0	0.958333	556	1.575
INDEX R2 (%)	0.170449	0.958333	0	1.041667	0	1.625
INDEX R3 (%)	0	1.035	454	1.125	141	1.675
INDEX R4 (%)	0	1.111667	384	1.208333	0	1.725
INDEX W1 (%)	0.990273	1.188333	0	1.291667	78	1.775
INDEX W2 (%)	0.267022	1.265	375	1.375	527	1.825
INDEX W3 (%)	0	1.341667	0	1.458333	0	1.875
INDEX W4 (%)	0	1.418333	1200	1.541667	0	1.925
CP.99%_BLUE	2.102319	1.495	0	1.625	866	1.975
CP.99%_RED	2.356315	1.571667	383	1.708333	662	2.025
CP.99%_WHITE	2.261025	1.648333	0	1.791667	293	2.075
CP.99%_AVG	2.160514	1.725	247	1.875	0	2.125
SAMPLES(N)	4318	1.801667	320	1.958333	421	2.175
		1.878333	0	2.041667	0	2.225

Appendix C

Program 2

Watershed Segment 1

SEGMENT 1_2007

APR_07₁ :=
....\Watershed_07_04_APR.xls

MAY_07₁ :=
... \Watershed_07_05_MAY.xls

JUN_07₁ :=
.....\Watershed_07_06_JUN.xls

JUL_07₁ :=
....\Watershed_07_07_JUL.xls

AUG_07₁ :=
... \Watershed_07_08_AUG.xls

SEP_07₁ :=
....\Watershed_07_09_SEP.xls

OCT_07₁ :=
... \Watershed_07_10_OCT.xls

NOV_07₁ :=
... \Watershed_07_11_NOV.xls

DEC_07₁ :=
... \Watershed_07_12_DEC.xls

SEGMENT 1_2008

JAN_08₁ :=
... \Watershed_08_01_JAN.xls

FEB_08₁ :=
... \Watershed_08_02_FEB.xls

MRT_08₁ :=
... \Watershed_08_03_MRT.xls

APR_08₁ :=
... \Watershed_08_04_APR.xls

MAY_08₁ :=
... \Watershed_08_05_MAY.xls

JUN_08₁ :=
... \Watershed_08_06_JUN.xls

JUL_08₁ :=
... \Watershed_08_07_JUL.xls

AUG_08₁ :=
... \Watershed_08_08_AUG.xls

SEP_08₁ :=
... \Watershed_08_09_SEP.xls

OCT_08₁ :=
... \Watershed_08_10_OCT.xls

NOV_08₁ :=
... \Watershed_08_11_NOV.xls

DEC_08₁ :=
... \Watershed_08_12_DEC.xls

SEGMENT 1_2009

JAN_09₁ :=
... \Watershed_09_01_JAN.xls

FEB_09₁ :=
... \Watershed_09_02_FEB.xls

MRT_09₁ :=
... \Watershed_09_03_MRT.xls

APR_09₁ :=
... \Watershed_09_04_APR.xls

Lomond Segment 2

SEGMENT 2 2007

APR_07₂ :=
...\\Lomond_07_04_APR.xls

MAY_07₂ :=
....\\Lomond_07_05_MAY.xls

JUN_07₂ :=
..\\Lomond_07_06_JUN.xls

JUL_07₂ :=
..\\Lomond_07_07_JUL.xls

AUG_07₂ :=
....\\Lomond_07_08_AUG.xls

SEP_07₂ :=
..\\Lomond_07_09_SEP.xls

OCT_07₂ :=
....\\Lomond_07_10_OCT.xls

NOV_07₂ :=
....\\Lomond_07_11_NOV.xls

DEC_07₂ :=
..\\Lomond_07_12_DEC.xls

SEGMENT 2 2008

JAN_08₂ :=
..\\Lomond_08_01_JAN.xls

FEB_08₂ :=
...\\Lomond_08_02_FEB.xls

MRT_08₂ :=
....\\Lomond_08_03_MRT.xls

APR_08₂ :=
..\\Lomond_08_04_APR.xls

MAY_08₂ :=
....\\Lomond_08_05_MAY.xls

JUN_08₂ :=
..\\Lomond_08_06_JUN.xls

JUL_08₂ :=
...\\Lomond_08_07_JUL.xls

AUG_08₂ :=
....\\Lomond_08_08_AUG.xls

SEP_08₂ :=
..\\Lomond_08_09_SEP.xls

OCT_08₂ :=
....\\Lomond_08_10_OCT.xls

NOV_08₂ :=
....\\Lomond_08_11_NOV.xls

DEC_08₂ :=
..\\Lomond_08_12_DEC.xls

SEGMENT 2 2009

JAN_09₂ :=
...\\Lomond_09_01_JAN.xls

FEB_09₂ :=
..\\Lomond_09_02_FEB.xls

MRT_09₂ :=
...\\Lomond_09_03_MRT.xls

APR_09₂ :=
..\\Lomond_09_04_APR.xls

Ararat Segment 3

SEGMENT 3_2007

SEGMENT 3_2008

APR_07 ₃ := ...\\Ararat_07_04_APR.xls	JAN_08 ₃ := ...\\Ararat_08_01_JAN.xls	OCT_08 ₃ := ...\\Ararat_08_10_OCT.xls
MAY_07 ₃ := ...\\Ararat_07_05_MAY.xls	FEB_08 ₃ := ...\\Ararat_08_02_FEB.xls	NOV_08 ₃ := ...\\Ararat_08_11_NOV.xls
JUN_07 ₃ := ...\\Ararat_07_06_JUN.xls	MRT_08 ₃ := ...\\Ararat_08_03_MRT.xls	DEC_08 ₃ := ...\\Ararat_08_12_DEC.xls
JUL_07 ₃ := ...\\Ararat_07_07_JUL.xls	APR_08 ₃ := ...\\Ararat_08_04_APR.xls	SEGMENT 3_2009 JAN_09 ₃ := ...\\Ararat_09_01_JAN.xls FEB_09 ₃ := ...\\Ararat_09_02_FEB.xls MRT_09 ₃ := ...\\Ararat_09_03_MRT.xls APR_09 ₃ := ...\\Ararat_09_04_APR.xls
AUG_07 ₃ := ...\\Ararat_07_08_AUG.xls	MAY_08 ₃ := ...\\Ararat_08_05_MAY.xls	
SEP_07 ₃ := ...\\Ararat_07_09_SEP.xls	JUN_08 ₃ := ...\\Ararat_08_06_JUN.xls	
OCT_07 ₃ := ...\\Ararat_07_10_OCT.xls	JUL_08 ₃ := ...\\Ararat_08_07_JUL.xls	
NOV_07 ₃ := ...\\Ararat_07_11_NOV.xls	AUG_08 ₃ := ...\\Ararat_08_08_AUG.xls	
DEC_07 ₃ := ...\\Ararat_07_12_DEC.xls	SEP_08 ₃ := ...\\Ararat_08_09_SEP.xls	

Carmel Segment 4

SEGMENT 4_2007

SEGMENT 4_2008

APR_07₄ :=
...\\Carmel_07_04_APR.xls

JAN_08₄ :=
...\\Carmel_08_01_JAN.xls

OCT_08₄ :=
...\\Carmel_08_10_OCT.xls

MAY_07₄ :=
...\\Carmel_07_05_MAY.xls

FEB_08₄ :=
...\\Carmel_08_02_FEB.xls

NOV_08₄ :=
...\\Carmel_08_11_NOV.xls

JUN_07₄ :=
...\\Carmel_07_06_JUN.xls

MRT_08₄ :=
...\\Carmel_08_03_MRT.xls

DEC_08₄ :=
...\\Carmel_08_12_DEC.xls

JUL_07₄ :=
...\\Carmel_07_07_JUL.xls

APR_08₄ :=
...\\Carmel_08_04_APR.xls

SEGMENT 4_2009

JAN_09₄ :=
...\\Carmel_09_01_JAN.xls

AUG_07₄ :=
...\\Carmel_07_08_AUG.xls

MAY_08₄ :=
...\\Carmel_08_05_MAY.xls

FEB_09₄ :=
...\\Carmel_09_02_FEB.xls

SEP_07₄ :=
...\\Carmel_07_09_SEP.xls

JUN_08₄ :=
...\\Carmel_08_06_JUN.xls

MRT_09₄ :=
...\\Carmel_09_03_MRT.xls

OCT_07₄ :=
...\\Carmel_07_10_OCT.xls

JUL_08₄ :=
...\\Carmel_08_07_JUL.xls

APR_09₄ :=
...\\Carmel_09_04_APR.xls

NOV_07₄ :=
...\\Carmel_07_11_NOV.xls

AUG_08₄ :=
...\\Carmel_08_08_AUG.xls

DEC_07₄ :=
...\\Carmel_07_12_DEC.xls

SEP_08₄ :=
...\\Carmel_08_09_SEP.xls

Hermes Segment 5**SEGMENT 5_2007****SEGMENT 5_2008**APR_07₅ :=
...\\Hermes_07_04_APR.xlsJAN_08₅ :=
...\\Hermes_08_01_JAN.xlsOCT_08₅ :=
...\\Hermes_08_10_OCT.xlsMAY_07₅ :=
...\\Hermes_07_05_MAY.xlsFEB_08₅ :=
...\\Hermes_08_02_FEB.xlsNOV_08₅ :=
...\\Hermes_08_11_NOV.xlsJUN_07₅ :=
...\\Hermes_07_06_JUN.xlsMRT_08₅ :=
...\\Hermes_08_03_MRT.xlsDEC_08₅ :=
...\\Hermes_08_12_DEC.xlsJUL_07₅ :=
...\\Hermes_07_07_JUL.xlsAPR_08₅ :=
...\\Hermes_08_04_APR.xls**SEGMENT 5_2009**AUG_07₅ :=
...\\Hermes_07_08_AUG.xlsMAY_08₅ :=
...\\Hermes_08_05_MAY.xlsJAN_09₅ :=
...\\Hermes_09_01_JAN.xlsSEP_07₅ :=
...\\Hermes_07_09_SEP.xlsJUN_08₅ :=
...\\Hermes_08_06_JUN.xlsFEB_09₅ :=
...\\Hermes_09_02_FEB.xlsOCT_07₅ :=
...\\Hermes_07_10_OCT.xlsJUL_08₅ :=
...\\Hermes_08_07_JUL.xlsMRT_09₅ :=
...\\Hermes_09_03_MRT.xlsNOV_07₅ :=
...\\Hermes_07_11_NOV.xlsAUG_08₅ :=
...\\Hermes_08_08_AUG.xlsAPR_09₅ :=
...\\Hermes_09_04_APR.xlsDEC_07₅ :=
...\\Hermes_07_12_DEC.xlsSEP_08₅ :=
...\\Hermes_08_09_SEP.xls

Spitskop Segment 6**SEGMENT 6_2007**

APR_07₆ :=
...\\Spitskop_07_04_APR.xls

MAY_07₆ :=
...\\Spitskop_07_05_MAY.xls

JUN_07₆ :=
...\\Spitskop_07_06_JUN.xls

JUL_07₆ :=
...\\Spitskop_07_07_JUL.xls

AUG_07₆ :=
...\\Spitskop_07_08_AUG.xls

SEP_07₆ :=
...\\Spitskop_07_09_SEP.xls

OCT_07₆ :=
...\\Spitskop_07_10_OCT.xls

NOV_07₆ :=
...\\Spitskop_07_11_NOV.xls

DEC_07₆ :=
...\\Spitskop_07_12_DEC.xls

SEGMENT 6_2008

JAN_08₆ :=
...\\Spitskop_08_01_JAN.xls

FEB_08₆ :=
...\\Spitskop_08_02_FEB.xls

MRT_08₆ :=
...\\Spitskop_08_03_MRT.xls

APR_08₆ :=
...\\Spitskop_08_04_APR.xls

MAY_08₆ :=
...\\Spitskop_08_05_MAY.xls

JUN_08₆ :=
...\\Spitskop_08_06_JUN.xls

JUL_08₆ :=
...\\Spitskop_08_07_JUL.xls

AUG_08₆ :=
...\\Spitskop_08_08_AUG.xls

SEP_08₆ :=
...\\Spitskop_08_09_SEP.xls

OCT_08₆ :=
...\\Spitskop_08_10_OCT.xls

NOV_08₆ :=
...\\Spitskop_08_11_NOV.xls

DEC_08₆ :=
...\\Spitskop_08_12_DEC.xls

SEGMENT 6_2009

JAN_09₆ :=
...\\Spitskop_09_01_JAN.xls

FEB_09₆ :=
...\\Spitskop_09_02_FEB.xls

MRT_09₆ :=
...\\Spitskop_09_03_MRT.xls

APR_09₆ :=
...\\Spitskop_09_04_APR.xls

Trident Segment 7

SEGMENT 7_2007

APR_07₇ :=
...\\Trident_07_04_APR.xls

MAY_07₇ :=
...\\Trident_07_05_MAY.xls

JUN_07₇ :=
...\\Trident_07_06_JUN.xls

JUL_07₇ :=
...\\Trident_07_07_JUL.xls

AUG_07₇ :=
...\\Trident_07_08_AUG.xls

SEP_07₇ :=
...\\Trident_07_09_SEP.xls

OCT_07₇ :=
...\\Trident_07_10_OCT.xls

NOV_07₇ :=
...\\Trident_07_11_NOV.xls

DEC_07₇ :=
...\\Trident_07_12_DEC.xls

SEGMENT 7_2008

JAN_08₇ :=
...\\Trident_08_01_JAN.xls

FEB_08₇ :=
...\\Trident_08_02_FEB.xls

MRT_08₇ :=
...\\Trident_08_03_MRT.xls

APR_08₇ :=
...\\Trident_08_04_APR.xls

MAY_08₇ :=
...\\Trident_08_05_MAY.xls

JUN_08₇ :=
...\\Trident_08_06_JUN.xls

JUL_08₇ :=
...\\Trident_08_07_JUL.xls

AUG_08₇ :=
...\\Trident_08_08_AUG.xls

SEP_08₇ :=
...\\Trident_08_09_SEP.xls

OCT_08₇ :=
...\\Trident_08_10_OCT.xls

NOV_08₇ :=
...\\Trident_08_11_NOV.xls

DEC_08₇ :=
...\\Trident_08_12_DEC.xls

SEGMENT 7_2009

JAN_09₇ :=
...\\Trident_09_01_JAN.xls

FEB_09₇ :=
...\\Trident_09_02_FEB.xls

MRT_09₇ :=
...\\Trident_09_03_MRT.xls

APR_09₇ :=
...\\Trident_09_04_APR.xls

MEAN THD BLUE PHASE MATRIX

MTHD_B _{0,0} := APR_07 _{1,1}	MTHD_B _{1,0} := MAY_07 _{1,1}	MTHD_B _{2,0} := JUN_07 _{1,1}
MTHD_B _{0,1} := APR_07 _{2,1}	MTHD_B _{1,1} := MAY_07 _{2,1}	MTHD_B _{2,1} := JUN_07 _{2,1}
MTHD_B _{0,2} := APR_07 _{3,1}	MTHD_B _{1,2} := MAY_07 _{3,1}	MTHD_B _{2,2} := JUN_07 _{3,1}
MTHD_B _{0,3} := APR_07 _{4,1}	MTHD_B _{1,3} := MAY_07 _{4,1}	MTHD_B _{2,3} := JUN_07 _{4,1}
MTHD_B _{0,4} := APR_07 _{5,1}	MTHD_B _{1,4} := MAY_07 _{5,1}	MTHD_B _{2,4} := JUN_07 _{5,1}
MTHD_B _{0,5} := APR_07 _{6,1}	MTHD_B _{1,5} := MAY_07 _{6,1}	MTHD_B _{2,5} := JUN_07 _{6,1}
MTHD_B _{0,6} := APR_07 _{7,1}	MTHD_B _{1,6} := AUG_07 _{7,1}	MTHD_B _{2,6} := JUN_07 _{7,1}
MTHD_B _{3,0} := JUL_07 _{1,1}	MTHD_B _{4,0} := AUG_07 _{1,1}	MTHD_B _{5,0} := SEP_07 _{1,1}
MTHD_B _{3,1} := JUL_07 _{2,1}	MTHD_B _{4,1} := AUG_07 _{2,1}	MTHD_B _{5,1} := SEP_07 _{2,1}
MTHD_B _{3,2} := JUL_07 _{3,1}	MTHD_B _{4,2} := AUG_07 _{3,1}	MTHD_B _{5,2} := SEP_07 _{3,1}
MTHD_B _{3,3} := JUL_07 _{4,1}	MTHD_B _{4,3} := AUG_07 _{4,1}	MTHD_B _{5,3} := SEP_07 _{4,1}
MTHD_B _{3,4} := JUL_07 _{5,1}	MTHD_B _{4,4} := AUG_07 _{5,1}	MTHD_B _{5,4} := SEP_07 _{5,1}
MTHD_B _{3,5} := JUL_07 _{6,1}	MTHD_B _{4,5} := AUG_07 _{6,1}	MTHD_B _{5,5} := SEP_07 _{6,1}
MTHD_B _{3,6} := JUL_07 _{7,1}	MTHD_B _{4,6} := AUG_07 _{7,1}	MTHD_B _{5,6} := SEP_07 _{7,1}
MTHD_B _{6,0} := OCT_07 _{1,1}	MTHD_B _{7,0} := NOV_07 _{1,1}	MTHD_B _{8,0} := DEC_07 _{1,1}
MTHD_B _{6,1} := OCT_07 _{2,1}	MTHD_B _{7,1} := NOV_07 _{2,1}	MTHD_B _{8,1} := DEC_07 _{2,1}
MTHD_B _{6,2} := OCT_07 _{3,1}	MTHD_B _{7,2} := NOV_07 _{3,1}	MTHD_B _{8,2} := DEC_07 _{3,1}
MTHD_B _{6,3} := OCT_07 _{4,1}	MTHD_B _{7,3} := NOV_07 _{4,1}	MTHD_B _{8,3} := DEC_07 _{4,1}
MTHD_B _{6,4} := OCT_07 _{5,1}	MTHD_B _{7,4} := NOV_07 _{5,1}	MTHD_B _{8,4} := DEC_07 _{5,1}
MTHD_B _{6,5} := OCT_07 _{6,1}	MTHD_B _{7,5} := NOV_07 _{6,1}	MTHD_B _{8,5} := DEC_07 _{6,1}
MTHD_B _{6,6} := OCT_07 _{7,1}	MTHD_B _{7,6} := NOV_07 _{7,1}	MTHD_B _{8,6} := DEC_07 _{7,1}

MTHD_B _{9,0} := JAN_08 _{1,1}	MTHD_B _{10,0} := FEB_08 _{2,1}	MTHD_B _{11,0} := MRT_08 _{1,1}
MTHD_B _{9,1} := JAN_08 _{2,1}	MTHD_B _{10,1} := FEB_08 _{2,1}	MTHD_B _{11,1} := MRT_08 _{2,1}
MTHD_B _{9,2} := JAN_08 _{3,1}	MTHD_B _{10,2} := FEB_08 _{2,1}	MTHD_B _{11,2} := MRT_08 _{3,1}
MTHD_B _{9,3} := JAN_08 _{4,1}	MTHD_B _{10,3} := FEB_08 _{2,1}	MTHD_B _{11,3} := MRT_08 _{4,1}
MTHD_B _{9,4} := JAN_08 _{5,1}	MTHD_B _{10,4} := FEB_08 _{2,1}	MTHD_B _{11,4} := MRT_08 _{5,1}
MTHD_B _{9,5} := JAN_08 _{6,1}	MTHD_B _{10,5} := FEB_08 _{2,1}	MTHD_B _{11,5} := MRT_08 _{6,1}
MTHD_B _{9,6} := JAN_08 _{7,1}	MTHD_B _{10,6} := FEB_08 _{2,1}	MTHD_B _{11,6} := MRT_08 _{7,1}

MTHD_B _{12,0} := APR_08 _{1,1}	MTHD_B _{13,0} := MAY_08 _{1,1}	MTHD_B _{14,0} := JUN_08 _{1,1}
MTHD_B _{12,1} := APR_08 _{2,1}	MTHD_B _{13,1} := MAY_08 _{2,1}	MTHD_B _{14,1} := JUN_08 _{2,1}
MTHD_B _{12,2} := APR_08 _{3,1}	MTHD_B _{13,2} := MAY_08 _{3,1}	MTHD_B _{14,2} := JUN_08 _{3,1}
MTHD_B _{12,3} := APR_08 _{4,1}	MTHD_B _{13,3} := MAY_08 _{4,1}	MTHD_B _{14,3} := JUN_08 _{4,1}
MTHD_B _{12,4} := APR_08 _{5,1}	MTHD_B _{13,4} := MAY_08 _{5,1}	MTHD_B _{14,4} := JUN_08 _{5,1}
MTHD_B _{12,5} := APR_08 _{6,1}	MTHD_B _{13,5} := MAY_08 _{6,1}	MTHD_B _{14,5} := JUN_08 _{6,1}
MTHD_B _{12,6} := APR_08 _{7,1}	MTHD_B _{13,6} := AUG_08 _{7,1}	MTHD_B _{14,6} := JUN_08 _{7,1}

MTHD_B _{15,0} := JUL_08 _{1,1}	MTHD_B _{16,0} := AUG_08 _{1,1}	MTHD_B _{17,0} := SEP_08 _{1,1}
MTHD_B _{15,1} := JUL_08 _{2,1}	MTHD_B _{16,1} := AUG_08 _{2,1}	MTHD_B _{17,1} := SEP_08 _{2,1}
MTHD_B _{15,2} := JUL_08 _{3,1}	MTHD_B _{16,2} := AUG_08 _{3,1}	MTHD_B _{17,2} := SEP_08 _{3,1}
MTHD_B _{15,3} := JUL_08 _{4,1}	MTHD_B _{16,3} := AUG_08 _{4,1}	MTHD_B _{17,3} := SEP_08 _{4,1}
MTHD_B _{15,4} := JUL_08 _{5,1}	MTHD_B _{16,4} := AUG_08 _{5,1}	MTHD_B _{17,4} := SEP_08 _{5,1}
MTHD_B _{15,5} := JUL_08 _{6,1}	MTHD_B _{16,5} := AUG_08 _{6,1}	MTHD_B _{17,5} := SEP_08 _{6,1}
MTHD_B _{15,6} := JUL_08 _{7,1}	MTHD_B _{16,6} := AUG_08 _{7,1}	MTHD_B _{17,6} := SEP_08 _{7,1}

MTHD_B _{18,0} := OCT_08 _{1,1}	MTHD_B _{19,0} := NOV_08 _{1,1}	MTHD_B _{20,0} := DEC_08 _{1,1}
MTHD_B _{18,1} := OCT_08 _{2,1}	MTHD_B _{19,1} := NOV_08 _{2,1}	MTHD_B _{20,1} := DEC_08 _{2,1}
MTHD_B _{18,2} := OCT_08 _{3,1}	MTHD_B _{19,2} := NOV_08 _{3,1}	MTHD_B _{20,2} := DEC_08 _{3,1}
MTHD_B _{18,3} := OCT_08 _{4,1}	MTHD_B _{19,3} := NOV_08 _{4,1}	MTHD_B _{20,3} := DEC_08 _{4,1}

MTHD_B_{18,4} := OCT_08_{5,4,1} MTHD_B_{19,4} := NOV_08_{5,4,1} MTHD_B_{20,4} := DEC_08_{5,4,1}

MTHD_B_{18,5} := OCT_08_{6,4,1} MTHD_B_{19,5} := NOV_08_{6,4,1} MTHD_B_{20,5} := DEC_08_{6,4,1}

MTHD_B_{18,6} := OCT_08_{7,4,1} MTHD_B_{19,6} := NOV_08_{7,4,1} MTHD_B_{20,6} := DEC_08_{7,4,1}

MTHD_B_{21,0} := JAN_09_{1,4,1} MTHD_B_{22,0} := FEB_09_{2,4,1} MTHD_B_{23,0} := MRT_09_{1,4,1}

MTHD_B_{21,1} := JAN_09_{2,4,1} MTHD_B_{22,1} := FEB_09_{2,4,1} MTHD_B_{23,1} := MRT_09_{2,4,1}

MTHD_B_{21,2} := JAN_09_{3,4,1} MTHD_B_{22,2} := FEB_09_{2,4,1} MTHD_B_{23,2} := MRT_09_{3,4,1}

MTHD_B_{21,3} := JAN_09_{4,4,1} MTHD_B_{22,3} := FEB_09_{2,4,1} MTHD_B_{23,3} := MRT_09_{4,4,1}

MTHD_B_{21,4} := JAN_09_{5,4,1} MTHD_B_{22,4} := FEB_09_{2,4,1} MTHD_B_{23,4} := MRT_09_{5,4,1}

MTHD_B_{21,5} := JAN_09_{6,4,1} MTHD_B_{22,5} := FEB_09_{2,4,1} MTHD_B_{23,5} := MRT_09_{6,4,1}

MTHD_B_{21,6} := JAN_09_{7,4,1} MTHD_B_{22,6} := FEB_09_{2,4,1} MTHD_B_{23,6} := MRT_09_{7,4,1}

MTHD_B_{24,0} := APR_09_{1,4,1}

MTHD_B_{24,1} := APR_09_{2,4,1}

MTHD_B_{24,2} := APR_09_{3,4,1}

MTHD_B_{24,3} := APR_09_{4,4,1}

MTHD_B_{24,4} := APR_09_{5,4,1}

MTHD_B_{24,5} := APR_09_{6,4,1}

MTHD_B_{24,6} := APR_09_{7,4,1}

MEAN THD RED PHASE MATRIX

MTHD_R_{0,0} := APR_07_{1,5,1} MTHD_R_{1,0} := MAY_07_{1,5,1} MTHD_R_{2,0} := JUN_07_{1,5,1}

MTHD_R_{0,1} := APR_07_{2,5,1} MTHD_R_{1,1} := MAY_07_{2,5,1} MTHD_R_{2,1} := JUN_07_{2,5,1}

MTHD_R_{0,2} := APR_07_{3,5,1} MTHD_R_{1,2} := MAY_07_{3,5,1} MTHD_R_{2,2} := JUN_07_{3,5,1}

MTHD_R_{0,3} := APR_07_{4,5,1} MTHD_R_{1,3} := MAY_07_{4,5,1} MTHD_R_{2,3} := JUN_07_{4,5,1}

MTHD_R_{0,4} := APR_07_{5,5,1} MTHD_R_{1,4} := MAY_07_{5,5,1} MTHD_R_{2,4} := JUN_07_{5,5,1}

MTHD_R_{0,5} := APR_07_{6,5,1} MTHD_R_{1,5} := MAY_07_{6,5,1} MTHD_R_{2,5} := JUN_07_{6,5,1}

MTHD_R_{0,6} := APR_07_{7,5,1} MTHD_R_{1,6} := AUG_07_{7,5,1} MTHD_R_{2,6} := JUN_07_{7,5,1}

MTHD_R _{3,0} := JUL_07 _{1,1}	MTHD_R _{4,0} := AUG_07 _{1,1}	MTHD_R _{5,0} := SEP_07 _{1,1}
MTHD_R _{3,1} := JUL_07 _{2,1}	MTHD_R _{4,1} := AUG_07 _{2,1}	MTHD_R _{5,1} := SEP_07 _{2,1}
MTHD_R _{3,2} := JUL_07 _{3,1}	MTHD_R _{4,2} := AUG_07 _{3,1}	MTHD_R _{5,2} := SEP_07 _{3,1}
MTHD_R _{3,3} := JUL_07 _{4,1}	MTHD_R _{4,3} := AUG_07 _{4,1}	MTHD_R _{5,3} := SEP_07 _{4,1}
MTHD_R _{3,4} := JUL_07 _{5,1}	MTHD_R _{4,4} := AUG_07 _{5,1}	MTHD_R _{5,4} := SEP_07 _{5,1}
MTHD_R _{3,5} := JUL_07 _{6,1}	MTHD_R _{4,5} := AUG_07 _{6,1}	MTHD_R _{5,5} := SEP_07 _{6,1}
MTHD_R _{3,6} := JUL_07 _{7,1}	MTHD_R _{4,6} := AUG_07 _{7,1}	MTHD_R _{5,6} := SEP_07 _{7,1}
MTHD_R _{6,0} := OCT_07 _{1,1}	MTHD_R _{7,0} := NOV_07 _{1,1}	MTHD_R _{8,0} := DEC_07 _{1,1}
MTHD_R _{6,1} := OCT_07 _{2,1}	MTHD_R _{7,1} := NOV_07 _{2,1}	MTHD_R _{8,1} := DEC_07 _{2,1}
MTHD_R _{6,2} := OCT_07 _{3,1}	MTHD_R _{7,2} := NOV_07 _{3,1}	MTHD_R _{8,2} := DEC_07 _{3,1}
MTHD_R _{6,3} := OCT_07 _{4,1}	MTHD_R _{7,3} := NOV_07 _{4,1}	MTHD_R _{8,3} := DEC_07 _{4,1}
MTHD_R _{6,4} := OCT_07 _{5,1}	MTHD_R _{7,4} := NOV_07 _{5,1}	MTHD_R _{8,4} := DEC_07 _{5,1}
MTHD_R _{6,5} := OCT_07 _{6,1}	MTHD_R _{7,5} := NOV_07 _{6,1}	MTHD_R _{8,5} := DEC_07 _{6,1}
MTHD_R _{6,6} := OCT_07 _{7,1}	MTHD_R _{7,6} := NOV_07 _{7,1}	MTHD_R _{8,6} := DEC_07 _{7,1}
MTHD_R _{9,0} := JAN_08 _{1,1}	MTHD_R _{10,0} := FEB_08 _{2,1}	MTHD_R _{11,0} := MRT_08 _{1,1}
MTHD_R _{9,1} := JAN_08 _{2,1}	MTHD_R _{10,1} := FEB_08 _{2,1}	MTHD_R _{11,1} := MRT_08 _{2,1}
MTHD_R _{9,2} := JAN_08 _{3,1}	MTHD_R _{10,2} := FEB_08 _{2,1}	MTHD_R _{11,2} := MRT_08 _{3,1}
MTHD_R _{9,3} := JAN_08 _{4,1}	MTHD_R _{10,3} := FEB_08 _{2,1}	MTHD_R _{11,3} := MRT_08 _{4,1}
MTHD_R _{9,4} := JAN_08 _{5,1}	MTHD_R _{10,4} := FEB_08 _{2,1}	MTHD_R _{11,4} := MRT_08 _{5,1}
MTHD_R _{9,5} := JAN_08 _{6,1}	MTHD_R _{10,5} := FEB_08 _{2,1}	MTHD_R _{11,5} := MRT_08 _{6,1}
MTHD_R _{9,6} := JAN_08 _{7,1}	MTHD_R _{10,6} := FEB_08 _{2,1}	MTHD_R _{11,6} := MRT_08 _{7,1}
MTHD_R _{12,0} := APR_08 _{1,1}	MTHD_R _{13,0} := MAY_08 _{1,1}	MTHD_R _{14,0} := JUN_08 _{1,1}
MTHD_R _{12,1} := APR_08 _{2,1}	MTHD_R _{13,1} := MAY_08 _{2,1}	MTHD_R _{14,1} := JUN_08 _{2,1}
MTHD_R _{12,2} := APR_08 _{3,1}	MTHD_R _{13,2} := MAY_08 _{3,1}	MTHD_R _{14,2} := JUN_08 _{3,1}
MTHD_R _{12,3} := APR_08 _{4,1}	MTHD_R _{13,3} := MAY_08 _{4,1}	MTHD_R _{14,3} := JUN_08 _{4,1}

MTHD_R_{12,4} := APR_08_{5,1} MTHD_R_{13,4} := MAY_08_{5,1} MTHD_R_{14,4} := JUN_08_{5,1}

MTHD_R_{12,5} := APR_08_{6,1} MTHD_R_{13,5} := MAY_08_{6,1} MTHD_R_{14,5} := JUN_08_{6,1}

MTHD_R_{12,6} := APR_08_{7,1} MTHD_R_{13,6} := AUG_08_{7,1} MTHD_R_{14,6} := JUN_08_{7,1}

MTHD_R_{15,0} := JUL_08_{1,1} MTHD_R_{16,0} := AUG_08_{1,1} MTHD_R_{17,0} := SEP_08_{1,1}

MTHD_R_{15,1} := JUL_08_{2,1} MTHD_R_{16,1} := AUG_08_{2,1} MTHD_R_{17,1} := SEP_08_{2,1}

MTHD_R_{15,2} := JUL_08_{3,1} MTHD_R_{16,2} := AUG_08_{3,1} MTHD_R_{17,2} := SEP_08_{3,1}

MTHD_R_{15,3} := JUL_08_{4,1} MTHD_R_{16,3} := AUG_08_{4,1} MTHD_R_{17,3} := SEP_08_{4,1}

MTHD_R_{15,4} := JUL_08_{5,1} MTHD_R_{16,4} := AUG_08_{5,1} MTHD_R_{17,4} := SEP_08_{5,1}

MTHD_R_{15,5} := JUL_08_{6,1} MTHD_R_{16,5} := AUG_08_{6,1} MTHD_R_{17,5} := SEP_08_{6,1}

MTHD_R_{15,6} := JUL_08_{7,1} MTHD_R_{16,6} := AUG_08_{7,1} MTHD_R_{17,6} := SEP_08_{7,1}

MTHD_R_{18,0} := OCT_08_{1,1} MTHD_R_{19,0} := NOV_08_{1,1} MTHD_R_{20,0} := DEC_08_{1,1}

MTHD_R_{18,1} := OCT_08_{2,1} MTHD_R_{19,1} := NOV_08_{2,1} MTHD_R_{20,1} := DEC_08_{2,1}

MTHD_R_{18,2} := OCT_08_{3,1} MTHD_R_{19,2} := NOV_08_{3,1} MTHD_R_{20,2} := DEC_08_{3,1}

MTHD_R_{18,3} := OCT_08_{4,1} MTHD_R_{19,3} := NOV_08_{4,1} MTHD_R_{20,3} := DEC_08_{4,1}

MTHD_R_{18,4} := OCT_08_{5,1} MTHD_R_{19,4} := NOV_08_{5,1} MTHD_R_{20,4} := DEC_08_{5,1}

MTHD_R_{18,5} := OCT_08_{6,1} MTHD_R_{19,5} := NOV_08_{6,1} MTHD_R_{20,5} := DEC_08_{6,1}

MTHD_R_{18,6} := OCT_08_{7,1} MTHD_R_{19,6} := NOV_08_{7,1} MTHD_R_{20,6} := DEC_08_{7,1}

MTHD_R_{21,0} := JAN_09_{1,1} MTHD_R_{22,0} := FEB_09_{2,1} MTHD_R_{23,0} := MRT_09_{1,1}

MTHD_R_{21,1} := JAN_09_{2,1} MTHD_R_{22,1} := FEB_09_{2,1} MTHD_R_{23,1} := MRT_09_{2,1}

MTHD_R_{21,2} := JAN_09_{3,1} MTHD_R_{22,2} := FEB_09_{2,1} MTHD_R_{23,2} := MRT_09_{3,1}

MTHD_R_{21,3} := JAN_09_{4,1} MTHD_R_{22,3} := FEB_09_{2,1} MTHD_R_{23,3} := MRT_09_{4,1}

MTHD_R_{21,4} := JAN_09_{5,1} MTHD_R_{22,4} := FEB_09_{2,1} MTHD_R_{23,4} := MRT_09_{5,1}

MTHD_R_{21,5} := JAN_09_{6,1} MTHD_R_{22,5} := FEB_09_{2,1} MTHD_R_{23,5} := MRT_09_{6,1}

MTHD_R_{21,6} := JAN_09_{7,1} MTHD_R_{22,6} := FEB_09_{2,1} MTHD_R_{23,6} := MRT_09_{7,1}

$$\text{MTHD_R}_{24,0} := \text{APR_09}_{15,1}$$

$$\text{MTHD_R}_{24,1} := \text{APR_09}_{25,1}$$

$$\text{MTHD_R}_{24,2} := \text{APR_09}_{35,1}$$

$$\text{MTHD_R}_{24,3} := \text{APR_09}_{45,1}$$

$$\text{MTHD_R}_{24,4} := \text{APR_09}_{55,1}$$

$$\text{MTHD_R}_{24,5} := \text{APR_09}_{65,1}$$

$$\text{MTHD_R}_{24,6} := \text{APR_09}_{75,1}$$

MEAN THD WHITE PHASE MATRIX

$$\text{MTHD_W}_{0,0} := \text{APR_07}_{16,1} \quad \text{MTHD_W}_{1,0} := \text{MAY_07}_{16,1} \quad \text{MTHD_W}_{2,0} := \text{JUN_07}_{16,1}$$

$$\text{MTHD_W}_{0,1} := \text{APR_07}_{26,1} \quad \text{MTHD_W}_{1,1} := \text{MAY_07}_{26,1} \quad \text{MTHD_W}_{2,1} := \text{JUN_07}_{26,1}$$

$$\text{MTHD_W}_{0,2} := \text{APR_07}_{36,1} \quad \text{MTHD_W}_{1,2} := \text{MAY_07}_{36,1} \quad \text{MTHD_W}_{2,2} := \text{JUN_07}_{36,1}$$

$$\text{MTHD_W}_{0,3} := \text{APR_07}_{46,1} \quad \text{MTHD_W}_{1,3} := \text{MAY_07}_{46,1} \quad \text{MTHD_W}_{2,3} := \text{JUN_07}_{46,1}$$

$$\text{MTHD_W}_{0,4} := \text{APR_07}_{56,1} \quad \text{MTHD_W}_{1,4} := \text{MAY_07}_{56,1} \quad \text{MTHD_W}_{2,4} := \text{JUN_07}_{56,1}$$

$$\text{MTHD_W}_{0,5} := \text{APR_07}_{66,1} \quad \text{MTHD_W}_{1,5} := \text{MAY_07}_{66,1} \quad \text{MTHD_W}_{2,5} := \text{JUN_07}_{66,1}$$

$$\text{MTHD_W}_{0,6} := \text{APR_07}_{76,1} \quad \text{MTHD_W}_{1,6} := \text{AUG_07}_{76,1} \quad \text{MTHD_W}_{2,6} := \text{JUN_07}_{76,1}$$

$$\text{MTHD_W}_{3,0} := \text{JUL_07}_{16,1} \quad \text{MTHD_W}_{4,0} := \text{AUG_07}_{16,1} \quad \text{MTHD_W}_{5,0} := \text{SEP_07}_{16,1}$$

$$\text{MTHD_W}_{3,1} := \text{JUL_07}_{26,1} \quad \text{MTHD_W}_{4,1} := \text{AUG_07}_{26,1} \quad \text{MTHD_W}_{5,1} := \text{SEP_07}_{26,1}$$

$$\text{MTHD_W}_{3,2} := \text{JUL_07}_{36,1} \quad \text{MTHD_W}_{4,2} := \text{AUG_07}_{36,1} \quad \text{MTHD_W}_{5,2} := \text{SEP_07}_{36,1}$$

$$\text{MTHD_W}_{3,3} := \text{JUL_07}_{46,1} \quad \text{MTHD_W}_{4,3} := \text{AUG_07}_{46,1} \quad \text{MTHD_W}_{5,3} := \text{SEP_07}_{46,1}$$

$$\text{MTHD_W}_{3,4} := \text{JUL_07}_{56,1} \quad \text{MTHD_W}_{4,4} := \text{AUG_07}_{56,1} \quad \text{MTHD_W}_{5,4} := \text{SEP_07}_{56,1}$$

$$\text{MTHD_W}_{3,5} := \text{JUL_07}_{66,1} \quad \text{MTHD_W}_{4,5} := \text{AUG_07}_{66,1} \quad \text{MTHD_W}_{5,5} := \text{SEP_07}_{66,1}$$

$$\text{MTHD_W}_{3,6} := \text{JUL_07}_{76,1} \quad \text{MTHD_W}_{4,6} := \text{AUG_07}_{76,1} \quad \text{MTHD_W}_{5,6} := \text{SEP_07}_{76,1}$$

$$\text{MTHD_W}_{6,0} := \text{OCT_07}_{16,1} \quad \text{MTHD_W}_{7,0} := \text{NOV_07}_{16,1} \quad \text{MTHD_W}_{8,0} := \text{DEC_07}_{16,1}$$

$$\text{MTHD_W}_{6,1} := \text{OCT_07}_{26,1} \quad \text{MTHD_W}_{7,1} := \text{NOV_07}_{26,1} \quad \text{MTHD_W}_{8,1} := \text{DEC_07}_{26,1}$$

$$\text{MTHD_W}_{6,2} := \text{OCT_07}_{36,1} \quad \text{MTHD_W}_{7,2} := \text{NOV_07}_{36,1} \quad \text{MTHD_W}_{8,2} := \text{DEC_07}_{36,1}$$

$MTHD_W_{6,3} := OCT_07_{4,1}$ $MTHD_W_{7,3} := NOV_07_{4,1}$ $MTHD_W_{8,3} := DEC_07_{4,1}$
 $MTHD_W_{6,4} := OCT_07_{5,1}$ $MTHD_W_{7,4} := NOV_07_{5,1}$ $MTHD_W_{8,4} := DEC_07_{5,1}$
 $MTHD_W_{6,5} := OCT_07_{6,1}$ $MTHD_W_{7,5} := NOV_07_{6,1}$ $MTHD_W_{8,5} := DEC_07_{6,1}$
 $MTHD_W_{6,6} := OCT_07_{7,1}$ $MTHD_W_{7,6} := NOV_07_{7,1}$ $MTHD_W_{8,6} := DEC_07_{7,1}$

$MTHD_W_{9,0} := JAN_08_{1,1}$ $MTHD_W_{10,0} := FEB_08_{2,1}$ $MTHD_W_{11,0} := MRT_08_{1,1}$
 $MTHD_W_{9,1} := JAN_08_{2,1}$ $MTHD_W_{10,1} := FEB_08_{2,1}$ $MTHD_W_{11,1} := MRT_08_{2,1}$
 $MTHD_W_{9,2} := JAN_08_{3,1}$ $MTHD_W_{10,2} := FEB_08_{2,1}$ $MTHD_W_{11,2} := MRT_08_{3,1}$
 $MTHD_W_{9,3} := JAN_08_{4,1}$ $MTHD_W_{10,3} := FEB_08_{2,1}$ $MTHD_W_{11,3} := MRT_08_{4,1}$
 $MTHD_W_{9,4} := JAN_08_{5,1}$ $MTHD_W_{10,4} := FEB_08_{2,1}$ $MTHD_W_{11,4} := MRT_08_{5,1}$
 $MTHD_W_{9,5} := JAN_08_{6,1}$ $MTHD_W_{10,5} := FEB_08_{2,1}$ $MTHD_W_{11,5} := MRT_08_{6,1}$
 $MTHD_W_{9,6} := JAN_08_{7,1}$ $MTHD_W_{10,6} := FEB_08_{2,1}$ $MTHD_W_{11,6} := MRT_08_{7,1}$

$MTHD_W_{12,0} := APR_08_{1,1}$ $MTHD_W_{13,0} := MAY_08_{1,1}$ $MTHD_W_{14,0} := JUN_08_{1,1}$
 $MTHD_W_{12,1} := APR_08_{2,1}$ $MTHD_W_{13,1} := MAY_08_{2,1}$ $MTHD_W_{14,1} := JUN_08_{2,1}$
 $MTHD_W_{12,2} := APR_08_{3,1}$ $MTHD_W_{13,2} := MAY_08_{3,1}$ $MTHD_W_{14,2} := JUN_08_{3,1}$
 $MTHD_W_{12,3} := APR_08_{4,1}$ $MTHD_W_{13,3} := MAY_08_{4,1}$ $MTHD_W_{14,3} := JUN_08_{4,1}$
 $MTHD_W_{12,4} := APR_08_{5,1}$ $MTHD_W_{13,4} := MAY_08_{5,1}$ $MTHD_W_{14,4} := JUN_08_{5,1}$
 $MTHD_W_{12,5} := APR_08_{6,1}$ $MTHD_W_{13,5} := MAY_08_{6,1}$ $MTHD_W_{14,5} := JUN_08_{6,1}$
 $MTHD_W_{12,6} := APR_08_{7,1}$ $MTHD_W_{13,6} := AUG_08_{7,1}$ $MTHD_W_{14,6} := JUN_08_{7,1}$

$MTHD_W_{15,0} := JUL_08_{1,1}$ $MTHD_W_{16,0} := AUG_08_{1,1}$ $MTHD_W_{17,0} := SEP_08_{1,1}$
 $MTHD_W_{15,1} := JUL_08_{2,1}$ $MTHD_W_{16,1} := AUG_08_{2,1}$ $MTHD_W_{17,1} := SEP_08_{2,1}$
 $MTHD_W_{15,2} := JUL_08_{3,1}$ $MTHD_W_{16,2} := AUG_08_{3,1}$ $MTHD_W_{17,2} := SEP_08_{3,1}$
 $MTHD_W_{15,3} := JUL_08_{4,1}$ $MTHD_W_{16,3} := AUG_08_{4,1}$ $MTHD_W_{17,3} := SEP_08_{4,1}$
 $MTHD_W_{15,4} := JUL_08_{5,1}$ $MTHD_W_{16,4} := AUG_08_{5,1}$ $MTHD_W_{17,4} := SEP_08_{5,1}$
 $MTHD_W_{15,5} := JUL_08_{6,1}$ $MTHD_W_{16,5} := AUG_08_{6,1}$ $MTHD_W_{17,5} := SEP_08_{6,1}$

$$\text{MTHD_W}_{15,6} := \text{JUL_08}_{7,6,1} \quad \text{MTHD_W}_{16,6} := \text{AUG_08}_{7,6,1} \quad \text{MTHD_W}_{17,6} := \text{SEP_08}_{7,6,1}$$

$$\begin{aligned} \text{MTHD_W}_{18,0} &:= \text{OCT_08}_{1,6,1} & \text{MTHD_W}_{19,0} &:= \text{NOV_08}_{1,6,1} & \text{MTHD_W}_{20,0} &:= \text{DEC_08}_{1,6,1} \\ \text{MTHD_W}_{18,1} &:= \text{OCT_08}_{2,6,1} & \text{MTHD_W}_{19,1} &:= \text{NOV_08}_{2,6,1} & \text{MTHD_W}_{20,1} &:= \text{DEC_08}_{2,6,1} \\ \text{MTHD_W}_{18,2} &:= \text{OCT_08}_{3,6,1} & \text{MTHD_W}_{19,2} &:= \text{NOV_08}_{3,6,1} & \text{MTHD_W}_{20,2} &:= \text{DEC_08}_{3,6,1} \\ \text{MTHD_W}_{18,3} &:= \text{OCT_08}_{4,6,1} & \text{MTHD_W}_{19,3} &:= \text{NOV_08}_{4,6,1} & \text{MTHD_W}_{20,3} &:= \text{DEC_08}_{4,6,1} \\ \text{MTHD_W}_{18,4} &:= \text{OCT_08}_{5,6,1} & \text{MTHD_W}_{19,4} &:= \text{NOV_08}_{5,6,1} & \text{MTHD_W}_{20,4} &:= \text{DEC_08}_{5,6,1} \\ \text{MTHD_W}_{18,5} &:= \text{OCT_08}_{6,6,1} & \text{MTHD_W}_{19,5} &:= \text{NOV_08}_{6,6,1} & \text{MTHD_W}_{20,5} &:= \text{DEC_08}_{6,6,1} \\ \text{MTHD_W}_{18,6} &:= \text{OCT_08}_{7,6,1} & \text{MTHD_W}_{19,6} &:= \text{NOV_08}_{7,6,1} & \text{MTHD_W}_{20,6} &:= \text{DEC_08}_{7,6,1} \end{aligned}$$

$$\begin{aligned} \text{MTHD_W}_{21,0} &:= \text{JAN_09}_{1,6,1} & \text{MTHD_W}_{22,0} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,0} &:= \text{MRT_09}_{1,6,1} \\ \text{MTHD_W}_{21,1} &:= \text{JAN_09}_{2,6,1} & \text{MTHD_W}_{22,1} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,1} &:= \text{MRT_09}_{2,6,1} \\ \text{MTHD_W}_{21,2} &:= \text{JAN_09}_{3,6,1} & \text{MTHD_W}_{22,2} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,2} &:= \text{MRT_09}_{3,6,1} \\ \text{MTHD_W}_{21,3} &:= \text{JAN_09}_{4,6,1} & \text{MTHD_W}_{22,3} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,3} &:= \text{MRT_09}_{4,6,1} \\ \text{MTHD_W}_{21,4} &:= \text{JAN_09}_{5,6,1} & \text{MTHD_W}_{22,4} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,4} &:= \text{MRT_09}_{5,6,1} \\ \text{MTHD_W}_{21,5} &:= \text{JAN_09}_{6,6,1} & \text{MTHD_W}_{22,5} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,5} &:= \text{MRT_09}_{6,6,1} \\ \text{MTHD_W}_{21,6} &:= \text{JAN_09}_{7,6,1} & \text{MTHD_W}_{22,6} &:= \text{FEB_09}_{2,6,1} & \text{MTHD_W}_{23,6} &:= \text{MRT_09}_{7,6,1} \end{aligned}$$

$$\text{MTHD_W}_{24,0} := \text{APR_09}_{1,6,1}$$

$$\text{MTHD_W}_{24,1} := \text{APR_09}_{2,6,1}$$

$$\text{MTHD_W}_{24,2} := \text{APR_09}_{3,6,1}$$

$$\text{MTHD_W}_{24,3} := \text{APR_09}_{4,6,1}$$

$$\text{MTHD_W}_{24,4} := \text{APR_09}_{5,6,1}$$

$$\text{MTHD_W}_{24,5} := \text{APR_09}_{6,6,1}$$

$$\text{MTHD_W}_{24,6} := \text{APR_09}_{7,6,1}$$

MEAN THD PHASE AVERAGE MATRIX

$$\text{MTHD_AV}_{0,0} := \text{APR_07}_{1,7,1} \quad \text{MTHD_AV}_{1,0} := \text{MAY_07}_{1,7,1} \quad \text{MTHD_AV}_{2,0} := \text{JUN_07}_{1,7,1}$$

$MTHD_AV_{0,1} := APR_07_{2,1}$ $MTHD_AV_{1,1} := MAY_07_{2,1}$ $MTHD_AV_{2,1} := JUN_07_{2,1}$
 $MTHD_AV_{0,2} := APR_07_{3,1}$ $MTHD_AV_{1,2} := MAY_07_{3,1}$ $MTHD_AV_{2,2} := JUN_07_{3,1}$
 $MTHD_AV_{0,3} := APR_07_{4,1}$ $MTHD_AV_{1,3} := MAY_07_{4,1}$ $MTHD_AV_{2,3} := JUN_07_{4,1}$
 $MTHD_AV_{0,4} := APR_07_{5,1}$ $MTHD_AV_{1,4} := MAY_07_{5,1}$ $MTHD_AV_{2,4} := JUN_07_{5,1}$
 $MTHD_AV_{0,5} := APR_07_{6,1}$ $MTHD_AV_{1,5} := MAY_07_{6,1}$ $MTHD_AV_{2,5} := JUN_07_{6,1}$
 $MTHD_AV_{0,6} := APR_07_{7,1}$ $MTHD_AV_{1,6} := AUG_07_{7,1}$ $MTHD_AV_{2,6} := JUN_07_{7,1}$

$MTHD_AV_{3,0} := JUL_07_{1,1}$ $MTHD_AV_{4,0} := AUG_07_{1,1}$ $MTHD_AV_{5,0} := SEP_07_{1,1}$
 $MTHD_AV_{3,1} := JUL_07_{2,1}$ $MTHD_AV_{4,1} := AUG_07_{2,1}$ $MTHD_AV_{5,1} := SEP_07_{2,1}$
 $MTHD_AV_{3,2} := JUL_07_{3,1}$ $MTHD_AV_{4,2} := AUG_07_{3,1}$ $MTHD_AV_{5,2} := SEP_07_{3,1}$
 $MTHD_AV_{3,3} := JUL_07_{4,1}$ $MTHD_AV_{4,3} := AUG_07_{4,1}$ $MTHD_AV_{5,3} := SEP_07_{4,1}$
 $MTHD_AV_{3,4} := JUL_07_{5,1}$ $MTHD_AV_{4,4} := AUG_07_{5,1}$ $MTHD_AV_{5,4} := SEP_07_{5,1}$
 $MTHD_AV_{3,5} := JUL_07_{6,1}$ $MTHD_AV_{4,5} := AUG_07_{6,1}$ $MTHD_AV_{5,5} := SEP_07_{6,1}$
 $MTHD_AV_{3,6} := JUL_07_{7,1}$ $MTHD_AV_{4,6} := AUG_07_{7,1}$ $MTHD_AV_{5,6} := SEP_07_{7,1}$

$MTHD_AV_{6,0} := OCT_07_{1,1}$ $MTHD_AV_{7,0} := NOV_07_{1,1}$ $MTHD_AV_{8,0} := DEC_07_{1,1}$
 $MTHD_AV_{6,1} := OCT_07_{2,1}$ $MTHD_AV_{7,1} := NOV_07_{2,1}$ $MTHD_AV_{8,1} := DEC_07_{2,1}$
 $MTHD_AV_{6,2} := OCT_07_{3,1}$ $MTHD_AV_{7,2} := NOV_07_{3,1}$ $MTHD_AV_{8,2} := DEC_07_{3,1}$
 $MTHD_AV_{6,3} := OCT_07_{4,1}$ $MTHD_AV_{7,3} := NOV_07_{4,1}$ $MTHD_AV_{8,3} := DEC_07_{4,1}$
 $MTHD_AV_{6,4} := OCT_07_{5,1}$ $MTHD_AV_{7,4} := NOV_07_{5,1}$ $MTHD_AV_{8,4} := DEC_07_{5,1}$
 $MTHD_AV_{6,5} := OCT_07_{6,1}$ $MTHD_AV_{7,5} := NOV_07_{6,1}$ $MTHD_AV_{8,5} := DEC_07_{6,1}$
 $MTHD_AV_{6,6} := OCT_07_{7,1}$ $MTHD_AV_{7,6} := NOV_07_{7,1}$ $MTHD_AV_{8,6} := DEC_07_{7,1}$

$MTHD_AV_{9,0} := JAN_08_{1,1}$ $MTHD_AV_{10,0} := FEB_08_{2,1}$ $MTHD_AV_{11,0} := MRT_08_{1,1}$
 $MTHD_AV_{9,1} := JAN_08_{2,1}$ $MTHD_AV_{10,1} := FEB_08_{2,1}$ $MTHD_AV_{11,1} := MRT_08_{2,1}$
 $MTHD_AV_{9,2} := JAN_08_{3,1}$ $MTHD_AV_{10,2} := FEB_08_{2,1}$ $MTHD_AV_{11,2} := MRT_08_{3,1}$
 $MTHD_AV_{9,3} := JAN_08_{4,1}$ $MTHD_AV_{10,3} := FEB_08_{2,1}$ $MTHD_AV_{11,3} := MRT_08_{4,1}$
 $MTHD_AV_{9,4} := JAN_08_{5,1}$ $MTHD_AV_{10,4} := FEB_08_{2,1}$ $MTHD_AV_{11,4} := MRT_08_{5,1}$
 $MTHD_AV_{9,5} := JAN_08_{6,1}$ $MTHD_AV_{10,5} := FEB_08_{2,1}$ $MTHD_AV_{11,5} := MRT_08_{6,1}$

MTHD_AV_{9,6} := JAN_08_{7,1} MTHD_AV_{10,6} := FEB_08_{2,1} MTHD_AV_{11,6} := MRT_08_{7,1}

MTHD_AV_{12,0} := APR_08_{1,1} MTHD_AV_{13,0} := MAY_08_{1,1} MTHD_AV_{14,0} := JUN_08_{1,1}

MTHD_AV_{12,1} := APR_08_{2,1} MTHD_AV_{13,1} := MAY_08_{2,1} MTHD_AV_{14,1} := JUN_08_{2,1}

MTHD_AV_{12,2} := APR_08_{3,1} MTHD_AV_{13,2} := MAY_08_{3,1} MTHD_AV_{14,2} := JUN_08_{3,1}

MTHD_AV_{12,3} := APR_08_{4,1} MTHD_AV_{13,3} := MAY_08_{4,1} MTHD_AV_{14,3} := JUN_08_{4,1}

MTHD_AV_{12,4} := APR_08_{5,1} MTHD_AV_{13,4} := MAY_08_{5,1} MTHD_AV_{14,4} := JUN_08_{5,1}

MTHD_AV_{12,5} := APR_08_{6,1} MTHD_AV_{13,5} := MAY_08_{6,1} MTHD_AV_{14,5} := JUN_08_{6,1}

MTHD_AV_{12,6} := APR_08_{7,1} MTHD_AV_{13,6} := AUG_08_{7,1} MTHD_AV_{14,6} := JUN_08_{7,1}

MTHD_AV_{15,0} := JUL_08_{1,1} MTHD_AV_{16,0} := AUG_08_{1,1} MTHD_AV_{17,0} := SEP_08_{1,1}

MTHD_AV_{15,1} := JUL_08_{2,1} MTHD_AV_{16,1} := AUG_08_{2,1} MTHD_AV_{17,1} := SEP_08_{2,1}

MTHD_AV_{15,2} := JUL_08_{3,1} MTHD_AV_{16,2} := AUG_08_{3,1} MTHD_AV_{17,2} := SEP_08_{3,1}

MTHD_AV_{15,3} := JUL_08_{4,1} MTHD_AV_{16,3} := AUG_08_{4,1} MTHD_AV_{17,3} := SEP_08_{4,1}

MTHD_AV_{15,4} := JUL_08_{5,1} MTHD_AV_{16,4} := AUG_08_{5,1} MTHD_AV_{17,4} := SEP_08_{5,1}

MTHD_AV_{15,5} := JUL_08_{6,1} MTHD_AV_{16,5} := AUG_08_{6,1} MTHD_AV_{17,5} := SEP_08_{6,1}

MTHD_AV_{15,6} := JUL_08_{7,1} MTHD_AV_{16,6} := AUG_08_{7,1} MTHD_AV_{17,6} := SEP_08_{7,1}

MTHD_AV_{18,0} := OCT_08_{1,1} MTHD_AV_{19,0} := NOV_08_{1,1} MTHD_AV_{20,0} := DEC_08_{1,1}

MTHD_AV_{18,1} := OCT_08_{2,1} MTHD_AV_{19,1} := NOV_08_{2,1} MTHD_AV_{20,1} := DEC_08_{2,1}

MTHD_AV_{18,2} := OCT_08_{3,1} MTHD_AV_{19,2} := NOV_08_{3,1} MTHD_AV_{20,2} := DEC_08_{3,1}

MTHD_AV_{18,3} := OCT_08_{4,1} MTHD_AV_{19,3} := NOV_08_{4,1} MTHD_AV_{20,3} := DEC_08_{4,1}

MTHD_AV_{18,4} := OCT_08_{5,1} MTHD_AV_{19,4} := NOV_08_{5,1} MTHD_AV_{20,4} := DEC_08_{5,1}

MTHD_AV_{18,5} := OCT_08_{6,1} MTHD_AV_{19,5} := NOV_08_{6,1} MTHD_AV_{20,5} := DEC_08_{6,1}

MTHD_AV_{18,6} := OCT_08_{7,1} MTHD_AV_{19,6} := NOV_08_{7,1} MTHD_AV_{20,6} := DEC_08_{7,1}

MTHD_AV_{21,0} := JAN_09_{1,1} MTHD_AV_{22,0} := FEB_09_{2,1} MTHD_AV_{23,0} := MRT_09_{1,1}

MTHD_AV_{21,1} := JAN_09_{2,1} MTHD_AV_{22,1} := FEB_09_{2,1} MTHD_AV_{23,1} := MRT_09_{2,1}

$MTHD_AV_{21,2} := JAN_09_{3,1}$ $MTHD_AV_{22,2} := FEB_09_{2,1}$ $MTHD_AV_{23,2} := MRT_09_{3,1}$
 $MTHD_AV_{21,3} := JAN_09_{4,1}$ $MTHD_AV_{22,3} := FEB_09_{2,1}$ $MTHD_AV_{23,3} := MRT_09_{4,1}$
 $MTHD_AV_{21,4} := JAN_09_{5,1}$ $MTHD_AV_{22,4} := FEB_09_{2,1}$ $MTHD_AV_{23,4} := MRT_09_{5,1}$
 $MTHD_AV_{21,5} := JAN_09_{6,1}$ $MTHD_AV_{22,5} := FEB_09_{2,1}$ $MTHD_AV_{23,5} := MRT_09_{6,1}$
 $MTHD_AV_{21,6} := JAN_09_{7,1}$ $MTHD_AV_{22,6} := FEB_09_{2,1}$ $MTHD_AV_{23,6} := MRT_09_{7,1}$

$MTHD_AV_{24,0} := APR_09_{1,1}$
 $MTHD_AV_{24,1} := APR_09_{2,1}$
 $MTHD_AV_{24,2} := APR_09_{3,1}$
 $MTHD_AV_{24,3} := APR_09_{4,1}$
 $MTHD_AV_{24,4} := APR_09_{5,1}$
 $MTHD_AV_{24,5} := APR_09_{6,1}$
 $MTHD_AV_{24,6} := APR_09_{7,1}$

 CP 95%

CP95% BLUE PHASE MATRIX

$m := 0$ **Marker**

$CP95_B_{0,0} := APR_07_{1,m,1}$	$CP95_B_{1,0} := MAY_07_{1,m,1}$	$CP95_B_{2,0} := JUN_07_{1,m,1}$
$CP95_B_{0,1} := APR_07_{2,m,1}$	$CP95_B_{1,1} := MAY_07_{2,m,1}$	$CP95_B_{2,1} := JUN_07_{2,m,1}$
$CP95_B_{0,2} := APR_07_{3,m,1}$	$CP95_B_{1,2} := MAY_07_{3,m,1}$	$CP95_B_{2,2} := JUN_07_{3,m,1}$
$CP95_B_{0,3} := APR_07_{4,m,1}$	$CP95_B_{1,3} := MAY_07_{4,m,1}$	$CP95_B_{2,3} := JUN_07_{4,m,1}$
$CP95_B_{0,4} := APR_07_{5,m,1}$	$CP95_B_{1,4} := MAY_07_{5,m,1}$	$CP95_B_{2,4} := JUN_07_{5,m,1}$
$CP95_B_{0,5} := APR_07_{6,m,1}$	$CP95_B_{1,5} := MAY_07_{6,m,1}$	$CP95_B_{2,5} := JUN_07_{6,m,1}$
$CP95_B_{0,6} := APR_07_{7,m,1}$	$CP95_B_{1,6} := AUG_07_{7,m,1}$	$CP95_B_{2,6} := JUN_07_{7,m,1}$
$CP95_B_{3,0} := JUL_07_{1,m,1}$	$CP95_B_{4,0} := AUG_07_{1,m,1}$	$CP95_B_{5,0} := SEP_07_{1,m,1}$
$CP95_B_{3,1} := JUL_07_{2,m,1}$	$CP95_B_{4,1} := AUG_07_{2,m,1}$	$CP95_B_{5,1} := SEP_07_{2,m,1}$

CP95_B _{3,2} := JUL_07 _{3m,1}	CP95_B _{4,2} := AUG_07 _{3m,1}	CP95_B _{5,2} := SEP_07 _{3m,1}
CP95_B _{3,3} := JUL_07 _{4m,1}	CP95_B _{4,3} := AUG_07 _{4m,1}	CP95_B _{5,3} := SEP_07 _{4m,1}
CP95_B _{3,4} := JUL_07 _{5m,1}	CP95_B _{4,4} := AUG_07 _{5m,1}	CP95_B _{5,4} := SEP_07 _{5m,1}
CP95_B _{3,5} := JUL_07 _{6m,1}	CP95_B _{4,5} := AUG_07 _{6m,1}	CP95_B _{5,5} := SEP_07 _{6m,1}
CP95_B _{3,6} := JUL_07 _{7m,1}	CP95_B _{4,6} := AUG_07 _{7m,1}	CP95_B _{5,6} := SEP_07 _{7m,1}
CP95_B _{6,0} := OCT_07 _{1m,1}	CP95_B _{7,0} := NOV_07 _{1m,1}	CP95_B _{8,0} := DEC_07 _{1m,1}
CP95_B _{6,1} := OCT_07 _{2m,1}	CP95_B _{7,1} := NOV_07 _{2m,1}	CP95_B _{8,1} := DEC_07 _{2m,1}
CP95_B _{6,2} := OCT_07 _{3m,1}	CP95_B _{7,2} := NOV_07 _{3m,1}	CP95_B _{8,2} := DEC_07 _{3m,1}
CP95_B _{6,3} := OCT_07 _{4m,1}	CP95_B _{7,3} := NOV_07 _{4m,1}	CP95_B _{8,3} := DEC_07 _{4m,1}
CP95_B _{6,4} := OCT_07 _{5m,1}	CP95_B _{7,4} := NOV_07 _{5m,1}	CP95_B _{8,4} := DEC_07 _{5m,1}
CP95_B _{6,5} := OCT_07 _{6m,1}	CP95_B _{7,5} := NOV_07 _{6m,1}	CP95_B _{8,5} := DEC_07 _{6m,1}
CP95_B _{6,6} := OCT_07 _{7m,1}	CP95_B _{7,6} := NOV_07 _{7m,1}	CP95_B _{8,6} := DEC_07 _{7m,1}
CP95_B _{9,0} := JAN_08 _{1m,1}	CP95_B _{10,0} := FEB_08 _{2m,1}	CP95_B _{11,0} := MRT_08 _{1m,1}
CP95_B _{9,1} := JAN_08 _{2m,1}	CP95_B _{10,1} := FEB_08 _{2m,1}	CP95_B _{11,1} := MRT_08 _{2m,1}
CP95_B _{9,2} := JAN_08 _{3m,1}	CP95_B _{10,2} := FEB_08 _{2m,1}	CP95_B _{11,2} := MRT_08 _{3m,1}
CP95_B _{9,3} := JAN_08 _{4m,1}	CP95_B _{10,3} := FEB_08 _{2m,1}	CP95_B _{11,3} := MRT_08 _{4m,1}
CP95_B _{9,4} := JAN_08 _{5m,1}	CP95_B _{10,4} := FEB_08 _{2m,1}	CP95_B _{11,4} := MRT_08 _{5m,1}
CP95_B _{9,5} := JAN_08 _{6m,1}	CP95_B _{10,5} := FEB_08 _{2m,1}	CP95_B _{11,5} := MRT_08 _{6m,1}
CP95_B _{9,6} := JAN_08 _{7m,1}	CP95_B _{10,6} := FEB_08 _{2m,1}	CP95_B _{11,6} := MRT_08 _{7m,1}
CP95_B _{12,0} := APR_08 _{1m,1}	CP95_B _{13,0} := MAY_08 _{1m,1}	CP95_B _{14,0} := JUN_08 _{1m,1}
CP95_B _{12,1} := APR_08 _{2m,1}	CP95_B _{13,1} := MAY_08 _{2m,1}	CP95_B _{14,1} := JUN_08 _{2m,1}
CP95_B _{12,2} := APR_08 _{3m,1}	CP95_B _{13,2} := MAY_08 _{3m,1}	CP95_B _{14,2} := JUN_08 _{3m,1}
CP95_B _{12,3} := APR_08 _{4m,1}	CP95_B _{13,3} := MAY_08 _{4m,1}	CP95_B _{14,3} := JUN_08 _{4m,1}
CP95_B _{12,4} := APR_08 _{5m,1}	CP95_B _{13,4} := MAY_08 _{5m,1}	CP95_B _{14,4} := JUN_08 _{5m,1}
CP95_B _{12,5} := APR_08 _{6m,1}	CP95_B _{13,5} := MAY_08 _{6m,1}	CP95_B _{14,5} := JUN_08 _{6m,1}

CP95_B_{12,6} := APR_08_{7m,1} CP95_B_{13,6} := AUG_08_{7m,1} CP95_B_{14,6} := JUN_08_{7m,1}

CP95_B_{15,0} := JUL_08_{1m,1} CP95_B_{16,0} := AUG_08_{1m,1} CP95_B_{17,0} := SEP_08_{1m,1}

CP95_B_{15,1} := JUL_08_{2m,1} CP95_B_{16,1} := AUG_08_{2m,1} CP95_B_{17,1} := SEP_08_{2m,1}

CP95_B_{15,2} := JUL_08_{3m,1} CP95_B_{16,2} := AUG_08_{3m,1} CP95_B_{17,2} := SEP_08_{3m,1}

CP95_B_{15,3} := JUL_08_{4m,1} CP95_B_{16,3} := AUG_08_{4m,1} CP95_B_{17,3} := SEP_08_{4m,1}

CP95_B_{15,4} := JUL_08_{5m,1} CP95_B_{16,4} := AUG_08_{5m,1} CP95_B_{17,4} := SEP_08_{5m,1}

CP95_B_{15,5} := JUL_08_{6m,1} CP95_B_{16,5} := AUG_08_{6m,1} CP95_B_{17,5} := SEP_08_{6m,1}

CP95_B_{15,6} := JUL_08_{7m,1} CP95_B_{16,6} := AUG_08_{7m,1} CP95_B_{17,6} := SEP_08_{7m,1}

CP95_B_{18,0} := OCT_08_{1m,1} CP95_B_{19,0} := NOV_08_{1m,1} CP95_B_{20,0} := DEC_08_{1m,1}

CP95_B_{18,1} := OCT_08_{2m,1} CP95_B_{19,1} := NOV_08_{2m,1} CP95_B_{20,1} := DEC_08_{2m,1}

CP95_B_{18,2} := OCT_08_{3m,1} CP95_B_{19,2} := NOV_08_{3m,1} CP95_B_{20,2} := DEC_08_{3m,1}

CP95_B_{18,3} := OCT_08_{4m,1} CP95_B_{19,3} := NOV_08_{4m,1} CP95_B_{20,3} := DEC_08_{4m,1}

CP95_B_{18,4} := OCT_08_{5m,1} CP95_B_{19,4} := NOV_08_{5m,1} CP95_B_{20,4} := DEC_08_{5m,1}

CP95_B_{18,5} := OCT_08_{6m,1} CP95_B_{19,5} := NOV_08_{6m,1} CP95_B_{20,5} := DEC_08_{6m,1}

CP95_B_{18,6} := OCT_08_{7m,1} CP95_B_{19,6} := NOV_08_{7m,1} CP95_B_{20,6} := DEC_08_{7m,1}

CP95_B_{21,0} := JAN_09_{1m,1} CP95_B_{22,0} := FEB_09_{2m,1} CP95_B_{23,0} := MRT_09_{1m,1}

CP95_B_{21,1} := JAN_09_{2m,1} CP95_B_{22,1} := FEB_09_{2m,1} CP95_B_{23,1} := MRT_09_{2m,1}

CP95_B_{21,2} := JAN_09_{3m,1} CP95_B_{22,2} := FEB_09_{2m,1} CP95_B_{23,2} := MRT_09_{3m,1}

CP95_B_{21,3} := JAN_09_{4m,1} CP95_B_{22,3} := FEB_09_{2m,1} CP95_B_{23,3} := MRT_09_{4m,1}

CP95_B_{21,4} := JAN_09_{5m,1} CP95_B_{22,4} := FEB_09_{2m,1} CP95_B_{23,4} := MRT_09_{5m,1}

CP95_B_{21,5} := JAN_09_{6m,1} CP95_B_{22,5} := FEB_09_{2m,1} CP95_B_{23,5} := MRT_09_{6m,1}

CP95_B_{21,6} := JAN_09_{7m,1} CP95_B_{22,6} := FEB_09_{2m,1} CP95_B_{23,6} := MRT_09_{7m,1}

CP95_B_{24,0} := APR_09_{1m,1}

CP95_B_{24,1} := APR_09_{2m,1}

$$CP95_B_{24,2} := APR_09_{3m,1}$$

$$CP95_B_{24,3} := APR_09_{4m,1}$$

$$CP95_B_{24,4} := APR_09_{5m,1}$$

$$CP95_B_{24,5} := APR_09_{6m,1}$$

$$CP95_B_{24,6} := APR_09_{7m,1}$$

95% THD RED PHASE MATRIX

m := 1 **Marker**

$$CP95_R_{0,0} := APR_07_{1m,1}$$

$$CP95_R_{0,1} := APR_07_{2m,1}$$

$$CP95_R_{0,2} := APR_07_{3m,1}$$

$$CP95_R_{0,3} := APR_07_{4m,1}$$

$$CP95_R_{0,4} := APR_07_{5m,1}$$

$$CP95_R_{0,5} := APR_07_{6m,1}$$

$$CP95_R_{0,6} := APR_07_{7m,1}$$

$$CP95_R_{1,0} := MAY_07_{1m,1}$$

$$CP95_R_{1,1} := MAY_07_{2m,1}$$

$$CP95_R_{1,2} := MAY_07_{3m,1}$$

$$CP95_R_{1,3} := MAY_07_{4m,1}$$

$$CP95_R_{1,4} := MAY_07_{5m,1}$$

$$CP95_R_{1,5} := MAY_07_{6m,1}$$

$$CP95_R_{1,6} := AUG_07_{7m,1}$$

$$CP95_R_{2,0} := JUN_07_{1m,1}$$

$$CP95_R_{2,1} := JUN_07_{2m,1}$$

$$CP95_R_{2,2} := JUN_07_{3m,1}$$

$$CP95_R_{2,3} := JUN_07_{4m,1}$$

$$CP95_R_{2,4} := JUN_07_{5m,1}$$

$$CP95_R_{2,5} := JUN_07_{6m,1}$$

$$CP95_R_{2,6} := JUN_07_{7m,1}$$

$$CP95_R_{3,0} := JUL_07_{1m,1}$$

$$CP95_R_{3,1} := JUL_07_{2m,1}$$

$$CP95_R_{3,2} := JUL_07_{3m,1}$$

$$CP95_R_{3,3} := JUL_07_{4m,1}$$

$$CP95_R_{3,4} := JUL_07_{5m,1}$$

$$CP95_R_{3,5} := JUL_07_{6m,1}$$

$$CP95_R_{3,6} := JUL_07_{7m,1}$$

$$CP95_R_{4,0} := AUG_07_{1m,1}$$

$$CP95_R_{4,1} := AUG_07_{2m,1}$$

$$CP95_R_{4,2} := AUG_07_{3m,1}$$

$$CP95_R_{4,3} := AUG_07_{4m,1}$$

$$CP95_R_{4,4} := AUG_07_{5m,1}$$

$$CP95_R_{4,5} := AUG_07_{6m,1}$$

$$CP95_R_{4,6} := AUG_07_{7m,1}$$

$$CP95_R_{5,0} := SEP_07_{1m,1}$$

$$CP95_R_{5,1} := SEP_07_{2m,1}$$

$$CP95_R_{5,2} := SEP_07_{3m,1}$$

$$CP95_R_{5,3} := SEP_07_{4m,1}$$

$$CP95_R_{5,4} := SEP_07_{5m,1}$$

$$CP95_R_{5,5} := SEP_07_{6m,1}$$

$$CP95_R_{5,6} := SEP_07_{7m,1}$$

$$CP95_R_{6,0} := OCT_07_{1m,1}$$

$$CP95_R_{6,1} := OCT_07_{2m,1}$$

$$CP95_R_{6,2} := OCT_07_{3m,1}$$

$$CP95_R_{7,0} := NOV_07_{1m,1}$$

$$CP95_R_{7,1} := NOV_07_{2m,1}$$

$$CP95_R_{7,2} := NOV_07_{3m,1}$$

$$CP95_R_{8,0} := DEC_07_{1m,1}$$

$$CP95_R_{8,1} := DEC_07_{2m,1}$$

$$CP95_R_{8,2} := DEC_07_{3m,1}$$

CP95_R _{6,3} := OCT_07 ₄ _{m,1}	CP95_R _{7,3} := NOV_07 ₄ _{m,1}	CP95_R _{8,3} := DEC_07 ₄ _{m,1}
CP95_R _{6,4} := OCT_07 ₅ _{m,1}	CP95_R _{7,4} := NOV_07 ₅ _{m,1}	CP95_R _{8,4} := DEC_07 ₅ _{m,1}
CP95_R _{6,5} := OCT_07 ₆ _{m,1}	CP95_R _{7,5} := NOV_07 ₆ _{m,1}	CP95_R _{8,5} := DEC_07 ₆ _{m,1}
CP95_R _{6,6} := OCT_07 ₇ _{m,1}	CP95_R _{7,6} := NOV_07 ₇ _{m,1}	CP95_R _{8,6} := DEC_07 ₇ _{m,1}

CP95_R _{9,0} := JAN_08 ₁ _{m,1}	CP95_R _{10,0} := FEB_08 ₂ _{m,1}	CP95_R _{11,0} := MRT_08 ₁ _{m,1}
CP95_R _{9,1} := JAN_08 ₂ _{m,1}	CP95_R _{10,1} := FEB_08 ₂ _{m,1}	CP95_R _{11,1} := MRT_08 ₂ _{m,1}
CP95_R _{9,2} := JAN_08 ₃ _{m,1}	CP95_R _{10,2} := FEB_08 ₂ _{m,1}	CP95_R _{11,2} := MRT_08 ₃ _{m,1}
CP95_R _{9,3} := JAN_08 ₄ _{m,1}	CP95_R _{10,3} := FEB_08 ₂ _{m,1}	CP95_R _{11,3} := MRT_08 ₄ _{m,1}
CP95_R _{9,4} := JAN_08 ₅ _{m,1}	CP95_R _{10,4} := FEB_08 ₂ _{m,1}	CP95_R _{11,4} := MRT_08 ₅ _{m,1}
CP95_R _{9,5} := JAN_08 ₆ _{m,1}	CP95_R _{10,5} := FEB_08 ₂ _{m,1}	CP95_R _{11,5} := MRT_08 ₆ _{m,1}
CP95_R _{9,6} := JAN_08 ₇ _{m,1}	CP95_R _{10,6} := FEB_08 ₂ _{m,1}	CP95_R _{11,6} := MRT_08 ₇ _{m,1}

CP95_R _{12,0} := APR_08 ₁ _{m,1}	CP95_R _{13,0} := MAY_08 ₁ _{m,1}	CP95_R _{14,0} := JUN_08 ₁ _{m,1}
CP95_R _{12,1} := APR_08 ₂ _{m,1}	CP95_R _{13,1} := MAY_08 ₂ _{m,1}	CP95_R _{14,1} := JUN_08 ₂ _{m,1}
CP95_R _{12,2} := APR_08 ₃ _{m,1}	CP95_R _{13,2} := MAY_08 ₃ _{m,1}	CP95_R _{14,2} := JUN_08 ₃ _{m,1}
CP95_R _{12,3} := APR_08 ₄ _{m,1}	CP95_R _{13,3} := MAY_08 ₄ _{m,1}	CP95_R _{14,3} := JUN_08 ₄ _{m,1}
CP95_R _{12,4} := APR_08 ₅ _{m,1}	CP95_R _{13,4} := MAY_08 ₅ _{m,1}	CP95_R _{14,4} := JUN_08 ₅ _{m,1}
CP95_R _{12,5} := APR_08 ₆ _{m,1}	CP95_R _{13,5} := MAY_08 ₆ _{m,1}	CP95_R _{14,5} := JUN_08 ₆ _{m,1}
CP95_R _{12,6} := APR_08 ₇ _{m,1}	CP95_R _{13,6} := AUG_08 ₇ _{m,1}	CP95_R _{14,6} := JUN_08 ₇ _{m,1}

CP95_R _{15,0} := JUL_08 ₁ _{m,1}	CP95_R _{16,0} := AUG_08 ₁ _{m,1}	CP95_R _{17,0} := SEP_08 ₁ _{m,1}
CP95_R _{15,1} := JUL_08 ₂ _{m,1}	CP95_R _{16,1} := AUG_08 ₂ _{m,1}	CP95_R _{17,1} := SEP_08 ₂ _{m,1}

CP95_R _{15,2} := JUL_08 ₃ _{m,1}	CP95_R _{16,2} := AUG_08 ₃ _{m,1}	CP95_R _{17,2} := SEP_08 ₃ _{m,1}
CP95_R _{15,3} := JUL_08 ₄ _{m,1}	CP95_R _{16,3} := AUG_08 ₄ _{m,1}	CP95_R _{17,3} := SEP_08 ₄ _{m,1}
CP95_R _{15,4} := JUL_08 ₅ _{m,1}	CP95_R _{16,4} := AUG_08 ₅ _{m,1}	CP95_R _{17,4} := SEP_08 ₅ _{m,1}
CP95_R _{15,5} := JUL_08 ₆ _{m,1}	CP95_R _{16,5} := AUG_08 ₆ _{m,1}	CP95_R _{17,5} := SEP_08 ₆ _{m,1}
CP95_R _{15,6} := JUL_08 ₇ _{m,1}	CP95_R _{16,6} := AUG_08 ₇ _{m,1}	CP95_R _{17,6} := SEP_08 ₇ _{m,1}

CP95_R _{18,0} := OCT_08 ₁ _{m,1}	CP95_R _{19,0} := NOV_08 ₁ _{m,1}	CP95_R _{20,0} := DEC_08 ₁ _{m,1}
CP95_R _{18,1} := OCT_08 ₂ _{m,1}	CP95_R _{19,1} := NOV_08 ₂ _{m,1}	CP95_R _{20,1} := DEC_08 ₂ _{m,1}
CP95_R _{18,2} := OCT_08 ₃ _{m,1}	CP95_R _{19,2} := NOV_08 ₃ _{m,1}	CP95_R _{20,2} := DEC_08 ₃ _{m,1}
CP95_R _{18,3} := OCT_08 ₄ _{m,1}	CP95_R _{19,3} := NOV_08 ₄ _{m,1}	CP95_R _{20,3} := DEC_08 ₄ _{m,1}
CP95_R _{18,4} := OCT_08 ₅ _{m,1}	CP95_R _{19,4} := NOV_08 ₅ _{m,1}	CP95_R _{20,4} := DEC_08 ₅ _{m,1}
CP95_R _{18,5} := OCT_08 ₆ _{m,1}	CP95_R _{19,5} := NOV_08 ₆ _{m,1}	CP95_R _{20,5} := DEC_08 ₆ _{m,1}
CP95_R _{18,6} := OCT_08 ₇ _{m,1}	CP95_R _{19,6} := NOV_08 ₇ _{m,1}	CP95_R _{20,6} := DEC_08 ₇ _{m,1}

CP95_R _{21,0} := JAN_09 ₁ _{m,1}	CP95_R _{22,0} := FEB_09 ₂ _{m,1}	CP95_R _{23,0} := MRT_09 ₁ _{m,1}
CP95_R _{21,1} := JAN_09 ₂ _{m,1}	CP95_R _{22,1} := FEB_09 ₂ _{m,1}	CP95_R _{23,1} := MRT_09 ₂ _{m,1}
CP95_R _{21,2} := JAN_09 ₃ _{m,1}	CP95_R _{22,2} := FEB_09 ₂ _{m,1}	CP95_R _{23,2} := MRT_09 ₃ _{m,1}
CP95_R _{21,3} := JAN_09 ₄ _{m,1}	CP95_R _{22,3} := FEB_09 ₂ _{m,1}	CP95_R _{23,3} := MRT_09 ₄ _{m,1}
CP95_R _{21,4} := JAN_09 ₅ _{m,1}	CP95_R _{22,4} := FEB_09 ₂ _{m,1}	CP95_R _{23,4} := MRT_09 ₅ _{m,1}
CP95_R _{21,5} := JAN_09 ₆ _{m,1}	CP95_R _{22,5} := FEB_09 ₂ _{m,1}	CP95_R _{23,5} := MRT_09 ₆ _{m,1}
CP95_R _{21,6} := JAN_09 ₇ _{m,1}	CP95_R _{22,6} := FEB_09 ₂ _{m,1}	CP95_R _{23,6} := MRT_09 ₇ _{m,1}

CP95_R _{24,0} := APR_09 ₁ _{m,1}
CP95_R _{24,1} := APR_09 ₂ _{m,1}
CP95_R _{24,2} := APR_09 ₃ _{m,1}

$$CP95_R_{24,3} := APR_09_{4,m,1}$$

$$CP95_R_{24,4} := APR_09_{5,m,1}$$

$$CP95_R_{24,5} := APR_09_{6,m,1}$$

$$CP95_R_{24,6} := APR_09_{7,m,1}$$

95% THD WHITE PHASE MATRIX

$m := 2$ Marker

$CP95_W_{0,0} := APR_07_{1,m,1}$	$CP95_W_{1,0} := MAY_07_{1,m,1}$	$CP95_W_{2,0} := JUN_07_{1,m,1}$
$CP95_W_{0,1} := APR_07_{2,m,1}$	$CP95_W_{1,1} := MAY_07_{2,m,1}$	$CP95_W_{2,1} := JUN_07_{2,m,1}$
$CP95_W_{0,2} := APR_07_{3,m,1}$	$CP95_W_{1,2} := MAY_07_{3,m,1}$	$CP95_W_{2,2} := JUN_07_{3,m,1}$
$CP95_W_{0,3} := APR_07_{4,m,1}$	$CP95_W_{1,3} := MAY_07_{4,m,1}$	$CP95_W_{2,3} := JUN_07_{4,m,1}$
$CP95_W_{0,4} := APR_07_{5,m,1}$	$CP95_W_{1,4} := MAY_07_{5,m,1}$	$CP95_W_{2,4} := JUN_07_{5,m,1}$
$CP95_W_{0,5} := APR_07_{6,m,1}$	$CP95_W_{1,5} := MAY_07_{6,m,1}$	$CP95_W_{2,5} := JUN_07_{6,m,1}$
$CP95_W_{0,6} := APR_07_{7,m,1}$	$CP95_W_{1,6} := AUG_07_{7,m,1}$	$CP95_W_{2,6} := JUN_07_{7,m,1}$
$CP95_W_{3,0} := JUL_07_{1,m,1}$	$CP95_W_{4,0} := AUG_07_{1,m,1}$	$CP95_W_{5,0} := SEP_07_{1,m,1}$
$CP95_W_{3,1} := JUL_07_{2,m,1}$	$CP95_W_{4,1} := AUG_07_{2,m,1}$	$CP95_W_{5,1} := SEP_07_{2,m,1}$
$CP95_W_{3,2} := JUL_07_{3,m,1}$	$CP95_W_{4,2} := AUG_07_{3,m,1}$	$CP95_W_{5,2} := SEP_07_{3,m,1}$
$CP95_W_{3,3} := JUL_07_{4,m,1}$	$CP95_W_{4,3} := AUG_07_{4,m,1}$	$CP95_W_{5,3} := SEP_07_{4,m,1}$
$CP95_W_{3,4} := JUL_07_{5,m,1}$	$CP95_W_{4,4} := AUG_07_{5,m,1}$	$CP95_W_{5,4} := SEP_07_{5,m,1}$
$CP95_W_{3,5} := JUL_07_{6,m,1}$	$CP95_W_{4,5} := AUG_07_{6,m,1}$	$CP95_W_{5,5} := SEP_07_{6,m,1}$
$CP95_W_{3,6} := JUL_07_{7,m,1}$	$CP95_W_{4,6} := AUG_07_{7,m,1}$	$CP95_W_{5,6} := SEP_07_{7,m,1}$
$CP95_W_{6,0} := OCT_07_{1,m,1}$	$CP95_W_{7,0} := NOV_07_{1,m,1}$	$CP95_W_{8,0} := DEC_07_{1,m,1}$
$CP95_W_{6,1} := OCT_07_{2,m,1}$	$CP95_W_{7,1} := NOV_07_{2,m,1}$	$CP95_W_{8,1} := DEC_07_{2,m,1}$

CP95_W _{6,2} := OCT_07 ₃ _{m,1}	CP95_W _{7,2} := NOV_07 ₃ _{m,1}	CP95_W _{8,2} := DEC_07 ₃ _{m,1}
CP95_W _{6,3} := OCT_07 ₄ _{m,1}	CP95_W _{7,3} := NOV_07 ₄ _{m,1}	CP95_W _{8,3} := DEC_07 ₄ _{m,1}
CP95_W _{6,4} := OCT_07 ₅ _{m,1}	CP95_W _{7,4} := NOV_07 ₅ _{m,1}	CP95_W _{8,4} := DEC_07 ₅ _{m,1}
CP95_W _{6,5} := OCT_07 ₆ _{m,1}	CP95_W _{7,5} := NOV_07 ₆ _{m,1}	CP95_W _{8,5} := DEC_07 ₆ _{m,1}
CP95_W _{6,6} := OCT_07 ₇ _{m,1}	CP95_W _{7,6} := NOV_07 ₇ _{m,1}	CP95_W _{8,6} := DEC_07 ₇ _{m,1}

CP95_W _{9,0} := JAN_08 ₁ _{m,1}	CP95_W _{10,0} := FEB_08 ₂ _{m,1}	CP95_W _{11,0} := MRT_08 ₁ _{m,1}
CP95_W _{9,1} := JAN_08 ₂ _{m,1}	CP95_W _{10,1} := FEB_08 ₂ _{m,1}	CP95_W _{11,1} := MRT_08 ₂ _{m,1}
CP95_W _{9,2} := JAN_08 ₃ _{m,1}	CP95_W _{10,2} := FEB_08 ₂ _{m,1}	CP95_W _{11,2} := MRT_08 ₃ _{m,1}
CP95_W _{9,3} := JAN_08 ₄ _{m,1}	CP95_W _{10,3} := FEB_08 ₂ _{m,1}	CP95_W _{11,3} := MRT_08 ₄ _{m,1}
CP95_W _{9,4} := JAN_08 ₅ _{m,1}	CP95_W _{10,4} := FEB_08 ₂ _{m,1}	CP95_W _{11,4} := MRT_08 ₅ _{m,1}
CP95_W _{9,5} := JAN_08 ₆ _{m,1}	CP95_W _{10,5} := FEB_08 ₂ _{m,1}	CP95_W _{11,5} := MRT_08 ₆ _{m,1}
CP95_W _{9,6} := JAN_08 ₇ _{m,1}	CP95_W _{10,6} := FEB_08 ₂ _{m,1}	CP95_W _{11,6} := MRT_08 ₇ _{m,1}

CP95_W _{12,0} := APR_08 ₁ _{m,1}	CP95_W _{13,0} := MAY_08 ₁ _{m,1}	CP95_W _{14,0} := JUN_08 ₁ _{m,1}
CP95_W _{12,1} := APR_08 ₂ _{m,1}	CP95_W _{13,1} := MAY_08 ₂ _{m,1}	CP95_W _{14,1} := JUN_08 ₂ _{m,1}
CP95_W _{12,2} := APR_08 ₃ _{m,1}	CP95_W _{13,2} := MAY_08 ₃ _{m,1}	CP95_W _{14,2} := JUN_08 ₃ _{m,1}
CP95_W _{12,3} := APR_08 ₄ _{m,1}	CP95_W _{13,3} := MAY_08 ₄ _{m,1}	CP95_W _{14,3} := JUN_08 ₄ _{m,1}
CP95_W _{12,4} := APR_08 ₅ _{m,1}	CP95_W _{13,4} := MAY_08 ₅ _{m,1}	CP95_W _{14,4} := JUN_08 ₅ _{m,1}
CP95_W _{12,5} := APR_08 ₆ _{m,1}	CP95_W _{13,5} := MAY_08 ₆ _{m,1}	CP95_W _{14,5} := JUN_08 ₆ _{m,1}
CP95_W _{12,6} := APR_08 ₇ _{m,1}	CP95_W _{13,6} := AUG_08 ₇ _{m,1}	CP95_W _{14,6} := JUN_08 ₇ _{m,1}

CP95_W _{15,0} := JUL_08 ₁ _{m,1}	CP95_W _{16,0} := AUG_08 ₁ _{m,1}	CP95_W _{17,0} := SEP_08 ₁ _{m,1}
CP95_W _{15,1} := JUL_08 ₂ _{m,1}	CP95_W _{16,1} := AUG_08 ₂ _{m,1}	CP95_W _{17,1} := SEP_08 ₂ _{m,1}
CP95_W _{15,2} := JUL_08 ₃ _{m,1}	CP95_W _{16,2} := AUG_08 ₃ _{m,1}	CP95_W _{17,2} := SEP_08 ₃ _{m,1}
CP95_W _{15,3} := JUL_08 ₄ _{m,1}	CP95_W _{16,3} := AUG_08 ₄ _{m,1}	CP95_W _{17,3} := SEP_08 ₄ _{m,1}
CP95_W _{15,4} := JUL_08 ₅ _{m,1}	CP95_W _{16,4} := AUG_08 ₅ _{m,1}	CP95_W _{17,4} := SEP_08 ₅ _{m,1}

$CP95_W_{15,5} := JUL_08_{6,m,1}$ $CP95_W_{16,5} := AUG_08_{6,m,1}$ $CP95_W_{17,5} := SEP_08_{6,m,1}$
 $CP95_W_{15,6} := JUL_08_{7,m,1}$ $CP95_W_{16,6} := AUG_08_{7,m,1}$ $CP95_W_{17,6} := SEP_08_{7,m,1}$

$CP95_W_{18,0} := OCT_08_{1,m,1}$ $CP95_W_{19,0} := NOV_08_{1,m,1}$ $CP95_W_{20,0} := DEC_08_{1,m,1}$
 $CP95_W_{18,1} := OCT_08_{2,m,1}$ $CP95_W_{19,1} := NOV_08_{2,m,1}$ $CP95_W_{20,1} := DEC_08_{2,m,1}$
 $CP95_W_{18,2} := OCT_08_{3,m,1}$ $CP95_W_{19,2} := NOV_08_{3,m,1}$ $CP95_W_{20,2} := DEC_08_{3,m,1}$
 $CP95_W_{18,3} := OCT_08_{4,m,1}$ $CP95_W_{19,3} := NOV_08_{4,m,1}$ $CP95_W_{20,3} := DEC_08_{4,m,1}$
 $CP95_W_{18,4} := OCT_08_{5,m,1}$ $CP95_W_{19,4} := NOV_08_{5,m,1}$ $CP95_W_{20,4} := DEC_08_{5,m,1}$
 $CP95_W_{18,5} := OCT_08_{6,m,1}$ $CP95_W_{19,5} := NOV_08_{6,m,1}$ $CP95_W_{20,5} := DEC_08_{6,m,1}$
 $CP95_W_{18,6} := OCT_08_{7,m,1}$ $CP95_W_{19,6} := NOV_08_{7,m,1}$ $CP95_W_{20,6} := DEC_08_{7,m,1}$

$CP95_W_{21,0} := JAN_09_{1,m,1}$ $CP95_W_{22,0} := FEB_09_{2,m,1}$ $CP95_W_{23,0} := MRT_09_{1,m,1}$
 $CP95_W_{21,1} := JAN_09_{2,m,1}$ $CP95_W_{22,1} := FEB_09_{2,m,1}$ $CP95_W_{23,1} := MRT_09_{2,m,1}$
 $CP95_W_{21,2} := JAN_09_{3,m,1}$ $CP95_W_{22,2} := FEB_09_{2,m,1}$ $CP95_W_{23,2} := MRT_09_{3,m,1}$
 $CP95_W_{21,3} := JAN_09_{4,m,1}$ $CP95_W_{22,3} := FEB_09_{2,m,1}$ $CP95_W_{23,3} := MRT_09_{4,m,1}$
 $CP95_W_{21,4} := JAN_09_{5,m,1}$ $CP95_W_{22,4} := FEB_09_{2,m,1}$ $CP95_W_{23,4} := MRT_09_{5,m,1}$
 $CP95_W_{21,5} := JAN_09_{6,m,1}$ $CP95_W_{22,5} := FEB_09_{2,m,1}$ $CP95_W_{23,5} := MRT_09_{6,m,1}$
 $CP95_W_{21,6} := JAN_09_{7,m,1}$ $CP95_W_{22,6} := FEB_09_{2,m,1}$ $CP95_W_{23,6} := MRT_09_{7,m,1}$

$CP95_W_{24,0} := APR_09_{1,m,1}$
 $CP95_W_{24,1} := APR_09_{2,m,1}$
 $CP95_W_{24,2} := APR_09_{3,m,1}$
 $CP95_W_{24,3} := APR_09_{4,m,1}$
 $CP95_W_{24,4} := APR_09_{5,m,1}$
 $CP95_W_{24,5} := APR_09_{6,m,1}$
 $CP95_W_{24,6} := APR_09_{7,m,1}$

95% THD AVERAGE PHASE MATRIX

m := 3 **Marker**

CP95_AV _{0,0} := APR_07 ₁ _{m,1}	CP95_AV _{1,0} := MAY_07 ₁ _{m,1}	CP95_AV _{2,0} := JUN_07 ₁ _{m,1}
CP95_AV _{0,1} := APR_07 ₂ _{m,1}	CP95_AV _{1,1} := MAY_07 ₂ _{m,1}	CP95_AV _{2,1} := JUN_07 ₂ _{m,1}
CP95_AV _{0,2} := APR_07 ₃ _{m,1}	CP95_AV _{1,2} := MAY_07 ₃ _{m,1}	CP95_AV _{2,2} := JUN_07 ₃ _{m,1}
CP95_AV _{0,3} := APR_07 ₄ _{m,1}	CP95_AV _{1,3} := MAY_07 ₄ _{m,1}	CP95_AV _{2,3} := JUN_07 ₄ _{m,1}
CP95_AV _{0,4} := APR_07 ₅ _{m,1}	CP95_AV _{1,4} := MAY_07 ₅ _{m,1}	CP95_AV _{2,4} := JUN_07 ₅ _{m,1}
CP95_AV _{0,5} := APR_07 ₆ _{m,1}	CP95_AV _{1,5} := MAY_07 ₆ _{m,1}	CP95_AV _{2,5} := JUN_07 ₆ _{m,1}
CP95_AV _{0,6} := APR_07 ₇ _{m,1}	CP95_AV _{1,6} := AUG_07 ₇ _{m,1}	CP95_AV _{2,6} := JUN_07 ₇ _{m,1}
CP95_AV _{3,0} := JUL_07 ₁ _{m,1}	CP95_AV _{4,0} := AUG_07 ₁ _{m,1}	CP95_AV _{5,0} := SEP_07 ₁ _{m,1}
CP95_AV _{3,1} := JUL_07 ₂ _{m,1}	CP95_AV _{4,1} := AUG_07 ₂ _{m,1}	CP95_AV _{5,1} := SEP_07 ₂ _{m,1}
CP95_AV _{3,2} := JUL_07 ₃ _{m,1}	CP95_AV _{4,2} := AUG_07 ₃ _{m,1}	CP95_AV _{5,2} := SEP_07 ₃ _{m,1}
CP95_AV _{3,3} := JUL_07 ₄ _{m,1}	CP95_AV _{4,3} := AUG_07 ₄ _{m,1}	CP95_AV _{5,3} := SEP_07 ₄ _{m,1}
CP95_AV _{3,4} := JUL_07 ₅ _{m,1}	CP95_AV _{4,4} := AUG_07 ₅ _{m,1}	CP95_AV _{5,4} := SEP_07 ₅ _{m,1}
CP95_AV _{3,5} := JUL_07 ₆ _{m,1}	CP95_AV _{4,5} := AUG_07 ₆ _{m,1}	CP95_AV _{5,5} := SEP_07 ₆ _{m,1}
CP95_AV _{3,6} := JUL_07 ₇ _{m,1}	CP95_AV _{4,6} := AUG_07 ₇ _{m,1}	CP95_AV _{5,6} := SEP_07 ₇ _{m,1}
CP95_AV _{6,0} := OCT_07 ₁ _{m,1}	CP95_AV _{7,0} := NOV_07 ₁ _{m,1}	CP95_AV _{8,0} := DEC_07 ₁ _{m,1}
CP95_AV _{6,1} := OCT_07 ₂ _{m,1}	CP95_AV _{7,1} := NOV_07 ₂ _{m,1}	CP95_AV _{8,1} := DEC_07 ₂ _{m,1}
CP95_AV _{6,2} := OCT_07 ₃ _{m,1}	CP95_AV _{7,2} := NOV_07 ₃ _{m,1}	CP95_AV _{8,2} := DEC_07 ₃ _{m,1}
CP95_AV _{6,3} := OCT_07 ₄ _{m,1}	CP95_AV _{7,3} := NOV_07 ₄ _{m,1}	CP95_AV _{8,3} := DEC_07 ₄ _{m,1}
CP95_AV _{6,4} := OCT_07 ₅ _{m,1}	CP95_AV _{7,4} := NOV_07 ₅ _{m,1}	CP95_AV _{8,4} := DEC_07 ₅ _{m,1}
CP95_AV _{6,5} := OCT_07 ₆ _{m,1}	CP95_AV _{7,5} := NOV_07 ₆ _{m,1}	CP95_AV _{8,5} := DEC_07 ₆ _{m,1}
CP95_AV _{6,6} := OCT_07 ₇ _{m,1}	CP95_AV _{7,6} := NOV_07 ₇ _{m,1}	CP95_AV _{8,6} := DEC_07 ₇ _{m,1}
CP95_AV _{9,0} := JAN_08 ₁ _{m,1}	CP95_AV _{10,0} := FEB_08 ₂ _{m,1}	CP95_AV _{11,0} := MRT_08 ₁ _{m,1}
CP95_AV _{9,1} := JAN_08 ₂ _{m,1}	CP95_AV _{10,1} := FEB_08 ₂ _{m,1}	CP95_AV _{11,1} := MRT_08 ₂ _{m,1}
CP95_AV _{9,2} := JAN_08 ₃ _{m,1}	CP95_AV _{10,2} := FEB_08 ₂ _{m,1}	CP95_AV _{11,2} := MRT_08 ₃ _{m,1}

$CP95_AV_{9,3} := JAN_08_{4,m,1}$ $CP95_AV_{10,3} := FEB_08_{2,m,1}$ $CP95_AV_{11,3} := MRT_08_{4,m,1}$
 $CP95_AV_{9,4} := JAN_08_{5,m,1}$ $CP95_AV_{10,4} := FEB_08_{2,m,1}$ $CP95_AV_{11,4} := MRT_08_{5,m,1}$
 $CP95_AV_{9,5} := JAN_08_{6,m,1}$ $CP95_AV_{10,5} := FEB_08_{2,m,1}$ $CP95_AV_{11,5} := MRT_08_{6,m,1}$
 $CP95_AV_{9,6} := JAN_08_{7,m,1}$ $CP95_AV_{10,6} := FEB_08_{2,m,1}$ $CP95_AV_{11,6} := MRT_08_{7,m,1}$

$CP95_AV_{12,0} := APR_08_{1,m,1}$ $CP95_AV_{13,0} := MAY_08_{1,m,1}$ $CP95_AV_{14,0} := JUN_08_{1,m,1}$
 $CP95_AV_{12,1} := APR_08_{2,m,1}$ $CP95_AV_{13,1} := MAY_08_{2,m,1}$ $CP95_AV_{14,1} := JUN_08_{2,m,1}$
 $CP95_AV_{12,2} := APR_08_{3,m,1}$ $CP95_AV_{13,2} := MAY_08_{3,m,1}$ $CP95_AV_{14,2} := JUN_08_{3,m,1}$
 $CP95_AV_{12,3} := APR_08_{4,m,1}$ $CP95_AV_{13,3} := MAY_08_{4,m,1}$ $CP95_AV_{14,3} := JUN_08_{4,m,1}$
 $CP95_AV_{12,4} := APR_08_{5,m,1}$ $CP95_AV_{13,4} := MAY_08_{5,m,1}$ $CP95_AV_{14,4} := JUN_08_{5,m,1}$
 $CP95_AV_{12,5} := APR_08_{6,m,1}$ $CP95_AV_{13,5} := MAY_08_{6,m,1}$ $CP95_AV_{14,5} := JUN_08_{6,m,1}$
 $CP95_AV_{12,6} := APR_08_{7,m,1}$ $CP95_AV_{13,6} := AUG_08_{7,m,1}$ $CP95_AV_{14,6} := JUN_08_{7,m,1}$

$CP95_AV_{15,0} := JUL_08_{1,m,1}$ $CP95_AV_{16,0} := AUG_08_{1,m,1}$ $CP95_AV_{17,0} := SEP_08_{1,m,1}$
 $CP95_AV_{15,1} := JUL_08_{2,m,1}$ $CP95_AV_{16,1} := AUG_08_{2,m,1}$ $CP95_AV_{17,1} := SEP_08_{2,m,1}$
 $CP95_AV_{15,2} := JUL_08_{3,m,1}$ $CP95_AV_{16,2} := AUG_08_{3,m,1}$ $CP95_AV_{17,2} := SEP_08_{3,m,1}$
 $CP95_AV_{15,3} := JUL_08_{4,m,1}$ $CP95_AV_{16,3} := AUG_08_{4,m,1}$ $CP95_AV_{17,3} := SEP_08_{4,m,1}$
 $CP95_AV_{15,4} := JUL_08_{5,m,1}$ $CP95_AV_{16,4} := AUG_08_{5,m,1}$ $CP95_AV_{17,4} := SEP_08_{5,m,1}$
 $CP95_AV_{15,5} := JUL_08_{6,m,1}$ $CP95_AV_{16,5} := AUG_08_{6,m,1}$ $CP95_AV_{17,5} := SEP_08_{6,m,1}$
 $CP95_AV_{15,6} := JUL_08_{7,m,1}$ $CP95_AV_{16,6} := AUG_08_{7,m,1}$ $CP95_AV_{17,6} := SEP_08_{7,m,1}$

$CP95_AV_{18,0} := OCT_08_{1,m,1}$ $CP95_AV_{19,0} := NOV_08_{1,m,1}$ $CP95_AV_{20,0} := DEC_08_{1,m,1}$
 $CP95_AV_{18,1} := OCT_08_{2,m,1}$ $CP95_AV_{19,1} := NOV_08_{2,m,1}$ $CP95_AV_{20,1} := DEC_08_{2,m,1}$
 $CP95_AV_{18,2} := OCT_08_{3,m,1}$ $CP95_AV_{19,2} := NOV_08_{3,m,1}$ $CP95_AV_{20,2} := DEC_08_{3,m,1}$

$CP95_AV_{18,3} := OCT_08_{4,m,1}$ $CP95_AV_{19,3} := NOV_08_{4,m,1}$ $CP95_AV_{20,3} := DEC_08_{4,m,1}$
 $CP95_AV_{18,4} := OCT_08_{5,m,1}$ $CP95_AV_{19,4} := NOV_08_{5,m,1}$ $CP95_AV_{20,4} := DEC_08_{5,m,1}$
 $CP95_AV_{18,5} := OCT_08_{6,m,1}$ $CP95_AV_{19,5} := NOV_08_{6,m,1}$ $CP95_AV_{20,5} := DEC_08_{6,m,1}$
 $CP95_AV_{18,6} := OCT_08_{7,m,1}$ $CP95_AV_{19,6} := NOV_08_{7,m,1}$ $CP95_AV_{20,6} := DEC_08_{7,m,1}$

$CP95_AV_{21,0} := JAN_09_{1,m,1}$ $CP95_AV_{22,0} := FEB_09_{2,m,1}$ $CP95_AV_{23,0} := MRT_09_{1,m,1}$
 $CP95_AV_{21,1} := JAN_09_{2,m,1}$ $CP95_AV_{22,1} := FEB_09_{2,m,1}$ $CP95_AV_{23,1} := MRT_09_{2,m,1}$
 $CP95_AV_{21,2} := JAN_09_{3,m,1}$ $CP95_AV_{22,2} := FEB_09_{2,m,1}$ $CP95_AV_{23,2} := MRT_09_{3,m,1}$
 $CP95_AV_{21,3} := JAN_09_{4,m,1}$ $CP95_AV_{22,3} := FEB_09_{2,m,1}$ $CP95_AV_{23,3} := MRT_09_{4,m,1}$
 $CP95_AV_{21,4} := JAN_09_{5,m,1}$ $CP95_AV_{22,4} := FEB_09_{2,m,1}$ $CP95_AV_{23,4} := MRT_09_{5,m,1}$
 $CP95_AV_{21,5} := JAN_09_{6,m,1}$ $CP95_AV_{22,5} := FEB_09_{2,m,1}$ $CP95_AV_{23,5} := MRT_09_{6,m,1}$
 $CP95_AV_{21,6} := JAN_09_{7,m,1}$ $CP95_AV_{22,6} := FEB_09_{2,m,1}$ $CP95_AV_{23,6} := MRT_09_{7,m,1}$

$CP95_AV_{24,0} := APR_09_{1,m,1}$
 $CP95_AV_{24,1} := APR_09_{2,m,1}$
 $CP95_AV_{24,2} := APR_09_{3,m,1}$
 $CP95_AV_{24,3} := APR_09_{4,m,1}$
 $CP95_AV_{24,4} := APR_09_{5,m,1}$
 $CP95_AV_{24,5} := APR_09_{6,m,1}$
 $CP95_AV_{24,6} := APR_09_{7,m,1}$

CP 99%

CP99% BLUE PHASE MATRIX

$m := 20$ Marker

$CP99_B_{0,0} := APR_07_{1,m,1}$ $CP99_B_{1,0} := MAY_07_{1,m,1}$ $CP99_B_{2,0} := JUN_07_{1,m,1}$
 $CP99_B_{0,1} := APR_07_{2,m,1}$ $CP99_B_{1,1} := MAY_07_{2,m,1}$ $CP99_B_{2,1} := JUN_07_{2,m,1}$

CP99_B _{0,2} := APR_07 ₃ _{m,1}	CP99_B _{1,2} := MAY_07 ₃ _{m,1}	CP99_B _{2,2} := JUN_07 ₃ _{m,1}
CP99_B _{0,3} := APR_07 ₄ _{m,1}	CP99_B _{1,3} := MAY_07 ₄ _{m,1}	CP99_B _{2,3} := JUN_07 ₄ _{m,1}
CP99_B _{0,4} := APR_07 ₅ _{m,1}	CP99_B _{1,4} := MAY_07 ₅ _{m,1}	CP99_B _{2,4} := JUN_07 ₅ _{m,1}
CP99_B _{0,5} := APR_07 ₆ _{m,1}	CP99_B _{1,5} := MAY_07 ₆ _{m,1}	CP99_B _{2,5} := JUN_07 ₆ _{m,1}
CP99_B _{0,6} := APR_07 ₇ _{m,1}	CP99_B _{1,6} := AUG_07 ₇ _{m,1}	CP99_B _{2,6} := JUN_07 ₇ _{m,1}
CP99_B _{3,0} := JUL_07 ₁ _{m,1}	CP99_B _{4,0} := AUG_07 ₁ _{m,1}	CP99_B _{5,0} := SEP_07 ₁ _{m,1}
CP99_B _{3,1} := JUL_07 ₂ _{m,1}	CP99_B _{4,1} := AUG_07 ₂ _{m,1}	CP99_B _{5,1} := SEP_07 ₂ _{m,1}
CP99_B _{3,2} := JUL_07 ₃ _{m,1}	CP99_B _{4,2} := AUG_07 ₃ _{m,1}	CP99_B _{5,2} := SEP_07 ₃ _{m,1}
CP99_B _{3,3} := JUL_07 ₄ _{m,1}	CP99_B _{4,3} := AUG_07 ₄ _{m,1}	CP99_B _{5,3} := SEP_07 ₄ _{m,1}
CP99_B _{3,4} := JUL_07 ₅ _{m,1}	CP99_B _{4,4} := AUG_07 ₅ _{m,1}	CP99_B _{5,4} := SEP_07 ₅ _{m,1}
CP99_B _{3,5} := JUL_07 ₆ _{m,1}	CP99_B _{4,5} := AUG_07 ₆ _{m,1}	CP99_B _{5,5} := SEP_07 ₆ _{m,1}
CP99_B _{3,6} := JUL_07 ₇ _{m,1}	CP99_B _{4,6} := AUG_07 ₇ _{m,1}	CP99_B _{5,6} := SEP_07 ₇ _{m,1}
CP99_B _{6,0} := OCT_07 ₁ _{m,1}	CP99_B _{7,0} := NOV_07 ₁ _{m,1}	CP99_B _{8,0} := DEC_07 ₁ _{m,1}
CP99_B _{6,1} := OCT_07 ₂ _{m,1}	CP99_B _{7,1} := NOV_07 ₂ _{m,1}	CP99_B _{8,1} := DEC_07 ₂ _{m,1}
CP99_B _{6,2} := OCT_07 ₃ _{m,1}	CP99_B _{7,2} := NOV_07 ₃ _{m,1}	CP99_B _{8,2} := DEC_07 ₃ _{m,1}
CP99_B _{6,3} := OCT_07 ₄ _{m,1}	CP99_B _{7,3} := NOV_07 ₄ _{m,1}	CP99_B _{8,3} := DEC_07 ₄ _{m,1}
CP99_B _{6,4} := OCT_07 ₅ _{m,1}	CP99_B _{7,4} := NOV_07 ₅ _{m,1}	CP99_B _{8,4} := DEC_07 ₅ _{m,1}
CP99_B _{6,5} := OCT_07 ₆ _{m,1}	CP99_B _{7,5} := NOV_07 ₆ _{m,1}	CP99_B _{8,5} := DEC_07 ₆ _{m,1}
CP99_B _{6,6} := OCT_07 ₇ _{m,1}	CP99_B _{7,6} := NOV_07 ₇ _{m,1}	CP99_B _{8,6} := DEC_07 ₇ _{m,1}
CP99_B _{9,0} := JAN_08 ₁ _{m,1}	CP99_B _{10,0} := FEB_08 ₂ _{m,1}	CP99_B _{11,0} := MRT_08 ₁ _{m,1}
CP99_B _{9,1} := JAN_08 ₂ _{m,1}	CP99_B _{10,1} := FEB_08 ₂ _{m,1}	CP99_B _{11,1} := MRT_08 ₂ _{m,1}
CP99_B _{9,2} := JAN_08 ₃ _{m,1}	CP99_B _{10,2} := FEB_08 ₂ _{m,1}	CP99_B _{11,2} := MRT_08 ₃ _{m,1}
CP99_B _{9,3} := JAN_08 ₄ _{m,1}	CP99_B _{10,3} := FEB_08 ₂ _{m,1}	CP99_B _{11,3} := MRT_08 ₄ _{m,1}
CP99_B _{9,4} := JAN_08 ₅ _{m,1}	CP99_B _{10,4} := FEB_08 ₂ _{m,1}	CP99_B _{11,4} := MRT_08 ₅ _{m,1}
CP99_B _{9,5} := JAN_08 ₆ _{m,1}	CP99_B _{10,5} := FEB_08 ₂ _{m,1}	CP99_B _{11,5} := MRT_08 ₆ _{m,1}
CP99_B _{9,6} := JAN_08 ₇ _{m,1}	CP99_B _{10,6} := FEB_08 ₂ _{m,1}	CP99_B _{11,6} := MRT_08 ₇ _{m,1}

CP99_B _{12,0} := APR_08 _{1,m,1}	CP99_B _{13,0} := MAY_08 _{1,m,1}	CP99_B _{14,0} := JUN_08 _{1,m,1}
CP99_B _{12,1} := APR_08 _{2,m,1}	CP99_B _{13,1} := MAY_08 _{2,m,1}	CP99_B _{14,1} := JUN_08 _{2,m,1}
CP99_B _{12,2} := APR_08 _{3,m,1}	CP99_B _{13,2} := MAY_08 _{3,m,1}	CP99_B _{14,2} := JUN_08 _{3,m,1}
CP99_B _{12,3} := APR_08 _{4,m,1}	CP99_B _{13,3} := MAY_08 _{4,m,1}	CP99_B _{14,3} := JUN_08 _{4,m,1}
CP99_B _{12,4} := APR_08 _{5,m,1}	CP99_B _{13,4} := MAY_08 _{5,m,1}	CP99_B _{14,4} := JUN_08 _{5,m,1}
CP99_B _{12,5} := APR_08 _{6,m,1}	CP99_B _{13,5} := MAY_08 _{6,m,1}	CP99_B _{14,5} := JUN_08 _{6,m,1}
CP99_B _{12,6} := APR_08 _{7,m,1}	CP99_B _{13,6} := AUG_08 _{7,m,1}	CP99_B _{14,6} := JUN_08 _{7,m,1}

CP99_B _{15,0} := JUL_08 _{1,m,1}	CP99_B _{16,0} := AUG_08 _{1,m,1}	CP99_B _{17,0} := SEP_08 _{1,m,1}
CP99_B _{15,1} := JUL_08 _{2,m,1}	CP99_B _{16,1} := AUG_08 _{2,m,1}	CP99_B _{17,1} := SEP_08 _{2,m,1}
CP99_B _{15,2} := JUL_08 _{3,m,1}	CP99_B _{16,2} := AUG_08 _{3,m,1}	CP99_B _{17,2} := SEP_08 _{3,m,1}
CP99_B _{15,3} := JUL_08 _{4,m,1}	CP99_B _{16,3} := AUG_08 _{4,m,1}	CP99_B _{17,3} := SEP_08 _{4,m,1}
CP99_B _{15,4} := JUL_08 _{5,m,1}	CP99_B _{16,4} := AUG_08 _{5,m,1}	CP99_B _{17,4} := SEP_08 _{5,m,1}
CP99_B _{15,5} := JUL_08 _{6,m,1}	CP99_B _{16,5} := AUG_08 _{6,m,1}	CP99_B _{17,5} := SEP_08 _{6,m,1}
CP99_B _{15,6} := JUL_08 _{7,m,1}	CP99_B _{16,6} := AUG_08 _{7,m,1}	CP99_B _{17,6} := SEP_08 _{7,m,1}

CP99_B _{18,0} := OCT_08 _{1,m,1}	CP99_B _{19,0} := NOV_08 _{1,m,1}	CP99_B _{20,0} := DEC_08 _{1,m,1}
CP99_B _{18,1} := OCT_08 _{2,m,1}	CP99_B _{19,1} := NOV_08 _{2,m,1}	CP99_B _{20,1} := DEC_08 _{2,m,1}
CP99_B _{18,2} := OCT_08 _{3,m,1}	CP99_B _{19,2} := NOV_08 _{3,m,1}	CP99_B _{20,2} := DEC_08 _{3,m,1}
CP99_B _{18,3} := OCT_08 _{4,m,1}	CP99_B _{19,3} := NOV_08 _{4,m,1}	CP99_B _{20,3} := DEC_08 _{4,m,1}
CP99_B _{18,4} := OCT_08 _{5,m,1}	CP99_B _{19,4} := NOV_08 _{5,m,1}	CP99_B _{20,4} := DEC_08 _{5,m,1}
CP99_B _{18,5} := OCT_08 _{6,m,1}	CP99_B _{19,5} := NOV_08 _{6,m,1}	CP99_B _{20,5} := DEC_08 _{6,m,1}
CP99_B _{18,6} := OCT_08 _{7,m,1}	CP99_B _{19,6} := NOV_08 _{7,m,1}	CP99_B _{20,6} := DEC_08 _{7,m,1}

CP99_B _{21,0} := JAN_09 _{1,m,1}	CP99_B _{22,0} := FEB_09 _{2,m,1}	CP99_B _{23,0} := MRT_09 _{1,m,1}
CP99_B _{21,1} := JAN_09 _{2,m,1}	CP99_B _{22,1} := FEB_09 _{2,m,1}	CP99_B _{23,1} := MRT_09 _{2,m,1}
CP99_B _{21,2} := JAN_09 _{3,m,1}	CP99_B _{22,2} := FEB_09 _{2,m,1}	CP99_B _{23,2} := MRT_09 _{3,m,1}

$$\begin{aligned}
CP99_B_{21,3} &:= JAN_09_{4,m,1} & CP99_B_{22,3} &:= FEB_09_{2,m,1} & CP99_B_{23,3} &:= MRT_09_{4,m,1} \\
CP99_B_{21,4} &:= JAN_09_{5,m,1} & CP99_B_{22,4} &:= FEB_09_{2,m,1} & CP99_B_{23,4} &:= MRT_09_{5,m,1} \\
CP99_B_{21,5} &:= JAN_09_{6,m,1} & CP99_B_{22,5} &:= FEB_09_{2,m,1} & CP99_B_{23,5} &:= MRT_09_{6,m,1} \\
CP99_B_{21,6} &:= JAN_09_{7,m,1} & CP99_B_{22,6} &:= FEB_09_{2,m,1} & CP99_B_{23,6} &:= MRT_09_{7,m,1} \\
\\
CP99_B_{24,0} &:= APR_09_{1,m,1} \\
CP99_B_{24,1} &:= APR_09_{2,m,1} \\
CP99_B_{24,2} &:= APR_09_{3,m,1} \\
CP99_B_{24,3} &:= APR_09_{4,m,1} \\
CP99_B_{24,4} &:= APR_09_{5,m,1} \\
CP99_B_{24,5} &:= APR_09_{6,m,1} \\
CP99_B_{24,6} &:= APR_09_{7,m,1}
\end{aligned}$$

CP99% RED PHASE MATRIX

$m := 21$ Marker

$$\begin{aligned}
CP99_R_{0,0} &:= APR_07_{1,m,1} & CP99_R_{1,0} &:= MAY_07_{1,m,1} & CP99_R_{2,0} &:= JUN_07_{1,m,1} \\
CP99_R_{0,1} &:= APR_07_{2,m,1} & CP99_R_{1,1} &:= MAY_07_{2,m,1} & CP99_R_{2,1} &:= JUN_07_{2,m,1} \\
CP99_R_{0,2} &:= APR_07_{3,m,1} & CP99_R_{1,2} &:= MAY_07_{3,m,1} & CP99_R_{2,2} &:= JUN_07_{3,m,1} \\
CP99_R_{0,3} &:= APR_07_{4,m,1} & CP99_R_{1,3} &:= MAY_07_{4,m,1} & CP99_R_{2,3} &:= JUN_07_{4,m,1} \\
CP99_R_{0,4} &:= APR_07_{5,m,1} & CP99_R_{1,4} &:= MAY_07_{5,m,1} & CP99_R_{2,4} &:= JUN_07_{5,m,1} \\
CP99_R_{0,5} &:= MAY_07_{6,m,1} & CP99_R_{1,5} &:= MAY_07_{6,m,1} & CP99_R_{2,5} &:= JUN_07_{6,m,1} \\
CP99_R_{0,6} &:= APR_07_{7,m,1} & CP99_R_{1,6} &:= AUG_07_{7,m,1} & CP99_R_{2,6} &:= JUN_07_{7,m,1} \\
\\
CP99_R_{3,0} &:= JUL_07_{1,m,1} & CP99_R_{4,0} &:= AUG_07_{1,m,1} & CP99_R_{5,0} &:= SEP_07_{1,m,1} \\
CP99_R_{3,1} &:= JUL_07_{2,m,1} & CP99_R_{4,1} &:= AUG_07_{2,m,1} & CP99_R_{5,1} &:= SEP_07_{2,m,1} \\
CP99_R_{3,2} &:= JUL_07_{3,m,1} & CP99_R_{4,2} &:= AUG_07_{3,m,1} & CP99_R_{5,2} &:= SEP_07_{3,m,1} \\
CP99_R_{3,3} &:= JUL_07_{4,m,1} & CP99_R_{4,3} &:= AUG_07_{4,m,1} & CP99_R_{5,3} &:= SEP_07_{4,m,1}
\end{aligned}$$

CP99_R _{3,4} := JUL_07 ₅ _{m,1}	CP99_R _{4,4} := AUG_07 ₅ _{m,1}	CP99_R _{5,4} := SEP_07 ₅ _{m,1}
CP99_R _{3,5} := JUL_07 ₆ _{m,1}	CP99_R _{4,5} := AUG_07 ₆ _{m,1}	CP99_R _{5,5} := SEP_07 ₆ _{m,1}
CP99_R _{3,6} := JUL_07 ₇ _{m,1}	CP99_R _{4,6} := AUG_07 ₇ _{m,1}	CP99_R _{5,6} := SEP_07 ₇ _{m,1}
CP99_R _{6,0} := OCT_07 ₁ _{m,1}	CP99_R _{7,0} := NOV_07 ₁ _{m,1}	CP99_R _{8,0} := DEC_07 ₁ _{m,1}
CP99_R _{6,1} := OCT_07 ₂ _{m,1}	CP99_R _{7,1} := NOV_07 ₂ _{m,1}	CP99_R _{8,1} := DEC_07 ₂ _{m,1}
CP99_R _{6,2} := OCT_07 ₃ _{m,1}	CP99_R _{7,2} := NOV_07 ₃ _{m,1}	CP99_R _{8,2} := DEC_07 ₃ _{m,1}
CP99_R _{6,3} := OCT_07 ₄ _{m,1}	CP99_R _{7,3} := NOV_07 ₄ _{m,1}	CP99_R _{8,3} := DEC_07 ₄ _{m,1}
CP99_R _{6,4} := OCT_07 ₅ _{m,1}	CP99_R _{7,4} := NOV_07 ₅ _{m,1}	CP99_R _{8,4} := DEC_07 ₅ _{m,1}
CP99_R _{6,5} := OCT_07 ₆ _{m,1}	CP99_R _{7,5} := NOV_07 ₆ _{m,1}	CP99_R _{8,5} := DEC_07 ₆ _{m,1}
CP99_R _{6,6} := OCT_07 ₇ _{m,1}	CP99_R _{7,6} := NOV_07 ₇ _{m,1}	CP99_R _{8,6} := DEC_07 ₇ _{m,1}
CP99_R _{9,0} := JAN_08 ₁ _{m,1}	CP99_R _{10,0} := FEB_08 ₂ _{m,1}	CP99_R _{11,0} := MRT_08 ₁ _{m,1}
CP99_R _{9,1} := JAN_08 ₂ _{m,1}	CP99_R _{10,1} := FEB_08 ₂ _{m,1}	CP99_R _{11,1} := MRT_08 ₂ _{m,1}
CP99_R _{9,2} := JAN_08 ₃ _{m,1}	CP99_R _{10,2} := FEB_08 ₂ _{m,1}	CP99_R _{11,2} := MRT_08 ₃ _{m,1}
CP99_R _{9,3} := JAN_08 ₄ _{m,1}	CP99_R _{10,3} := FEB_08 ₂ _{m,1}	CP99_R _{11,3} := MRT_08 ₄ _{m,1}
CP99_R _{9,4} := JAN_08 ₅ _{m,1}	CP99_R _{10,4} := FEB_08 ₂ _{m,1}	CP99_R _{11,4} := MRT_08 ₅ _{m,1}
CP99_R _{9,5} := JAN_08 ₆ _{m,1}	CP99_R _{10,5} := FEB_08 ₂ _{m,1}	CP99_R _{11,5} := MRT_08 ₆ _{m,1}
CP99_R _{9,6} := JAN_08 ₇ _{m,1}	CP99_R _{10,6} := FEB_08 ₂ _{m,1}	CP99_R _{11,6} := MRT_08 ₇ _{m,1}
CP99_R _{12,0} := APR_08 ₁ _{m,1}	CP99_R _{13,0} := MAY_08 ₁ _{m,1}	CP99_R _{14,0} := JUN_08 ₁ _{m,1}
CP99_R _{12,1} := APR_08 ₂ _{m,1}	CP99_R _{13,1} := MAY_08 ₂ _{m,1}	CP99_R _{14,1} := JUN_08 ₂ _{m,1}
CP99_R _{12,2} := APR_08 ₃ _{m,1}	CP99_R _{13,2} := MAY_08 ₃ _{m,1}	CP99_R _{14,2} := JUN_08 ₃ _{m,1}
CP99_R _{12,3} := APR_08 ₄ _{m,1}	CP99_R _{13,3} := MAY_08 ₄ _{m,1}	CP99_R _{14,3} := JUN_08 ₄ _{m,1}
CP99_R _{12,4} := APR_08 ₅ _{m,1}	CP99_R _{13,4} := MAY_08 ₅ _{m,1}	CP99_R _{14,4} := JUN_08 ₅ _{m,1}
CP99_R _{12,5} := APR_08 ₆ _{m,1}	CP99_R _{13,5} := MAY_08 ₆ _{m,1}	CP99_R _{14,5} := JUN_08 ₆ _{m,1}
CP99_R _{12,6} := APR_08 ₇ _{m,1}	CP99_R _{13,6} := AUG_08 ₇ _{m,1}	CP99_R _{14,6} := JUN_08 ₇ _{m,1}
CP99_R _{15,0} := JUL_08 ₁ _{m,1}	CP99_R _{16,0} := AUG_08 ₁ _{m,1}	CP99_R _{17,0} := SEP_08 ₁ _{m,1}

CP99_R _{15,1} := JUL_08 ₂ _{m,1}	CP99_R _{16,1} := AUG_08 ₂ _{m,1}	CP99_R _{17,1} := SEP_08 ₂ _{m,1}
CP99_R _{15,2} := JUL_08 ₃ _{m,1}	CP99_R _{16,2} := AUG_08 ₃ _{m,1}	CP99_R _{17,2} := SEP_08 ₃ _{m,1}
CP99_R _{15,3} := JUL_08 ₄ _{m,1}	CP99_R _{16,3} := AUG_08 ₄ _{m,1}	CP99_R _{17,3} := SEP_08 ₄ _{m,1}
CP99_R _{15,4} := JUL_08 ₅ _{m,1}	CP99_R _{16,4} := AUG_08 ₅ _{m,1}	CP99_R _{17,4} := SEP_08 ₅ _{m,1}
CP99_R _{15,5} := JUL_08 ₆ _{m,1}	CP99_R _{16,5} := AUG_08 ₆ _{m,1}	CP99_R _{17,5} := SEP_08 ₆ _{m,1}
CP99_R _{15,6} := JUL_08 ₇ _{m,1}	CP99_R _{16,6} := AUG_08 ₇ _{m,1}	CP99_R _{17,6} := SEP_08 ₇ _{m,1}

CP99_R _{18,0} := OCT_08 ₁ _{m,1}	CP99_R _{19,0} := NOV_08 ₁ _{m,1}	CP99_R _{20,0} := DEC_08 ₁ _{m,1}
CP99_R _{18,1} := OCT_08 ₂ _{m,1}	CP99_R _{19,1} := NOV_08 ₂ _{m,1}	CP99_R _{20,1} := DEC_08 ₂ _{m,1}
CP99_R _{18,2} := OCT_08 ₃ _{m,1}	CP99_R _{19,2} := NOV_08 ₃ _{m,1}	CP99_R _{20,2} := DEC_08 ₃ _{m,1}
CP99_R _{18,3} := OCT_08 ₄ _{m,1}	CP99_R _{19,3} := NOV_08 ₄ _{m,1}	CP99_R _{20,3} := DEC_08 ₄ _{m,1}
CP99_R _{18,4} := OCT_08 ₅ _{m,1}	CP99_R _{19,4} := NOV_08 ₅ _{m,1}	CP99_R _{20,4} := DEC_08 ₅ _{m,1}
CP99_R _{18,5} := OCT_08 ₆ _{m,1}	CP99_R _{19,5} := NOV_08 ₆ _{m,1}	CP99_R _{20,5} := DEC_08 ₆ _{m,1}
CP99_R _{18,6} := OCT_08 ₇ _{m,1}	CP99_R _{19,6} := NOV_08 ₇ _{m,1}	CP99_R _{20,6} := DEC_08 ₇ _{m,1}

CP99_R _{21,0} := JAN_09 ₁ _{m,1}	CP99_R _{22,0} := FEB_09 ₂ _{m,1}	CP99_R _{23,0} := MRT_09 ₁ _{m,1}
CP99_R _{21,1} := JAN_09 ₂ _{m,1}	CP99_R _{22,1} := FEB_09 ₂ _{m,1}	CP99_R _{23,1} := MRT_09 ₂ _{m,1}
CP99_R _{21,2} := JAN_09 ₃ _{m,1}	CP99_R _{22,2} := FEB_09 ₂ _{m,1}	CP99_R _{23,2} := MRT_09 ₃ _{m,1}
CP99_R _{21,3} := JAN_09 ₄ _{m,1}	CP99_R _{22,3} := FEB_09 ₂ _{m,1}	CP99_R _{23,3} := MRT_09 ₄ _{m,1}
CP99_R _{21,4} := JAN_09 ₅ _{m,1}	CP99_R _{22,4} := FEB_09 ₂ _{m,1}	CP99_R _{23,4} := MRT_09 ₅ _{m,1}
CP99_R _{21,5} := JAN_09 ₆ _{m,1}	CP99_R _{22,5} := FEB_09 ₂ _{m,1}	CP99_R _{23,5} := MRT_09 ₆ _{m,1}
CP99_R _{21,6} := JAN_09 ₇ _{m,1}	CP99_R _{22,6} := FEB_09 ₂ _{m,1}	CP99_R _{23,6} := MRT_09 ₇ _{m,1}

CP99_R _{24,0} := APR_09 ₁ _{m,1}
CP99_R _{24,1} := APR_09 ₂ _{m,1}
CP99_R _{24,2} := APR_09 ₃ _{m,1}
CP99_R _{24,3} := APR_09 ₄ _{m,1}
CP99_R _{24,4} := APR_09 ₅ _{m,1}

$$CP99_R_{24,5} := APR_09_{6,m,1}$$

$$CP99_R_{24,6} := APR_09_{7,m,1}$$

99% WHITE PHASE MATRIX

m := 22 Market

CP99_W _{0,0} := APR_07 _{1,m,1}	CP99_W _{1,0} := MAY_07 _{1,m,1}	CP99_W _{2,0} := JUN_07 _{1,m,1}
CP99_W _{0,1} := APR_07 _{2,m,1}	CP99_W _{1,1} := MAY_07 _{2,m,1}	CP99_W _{2,1} := JUN_07 _{2,m,1}
CP99_W _{0,2} := APR_07 _{3,m,1}	CP99_W _{1,2} := MAY_07 _{3,m,1}	CP99_W _{2,2} := JUN_07 _{3,m,1}
CP99_W _{0,3} := APR_07 _{4,m,1}	CP99_W _{1,3} := MAY_07 _{4,m,1}	CP99_W _{2,3} := JUN_07 _{4,m,1}
CP99_W _{0,4} := APR_07 _{5,m,1}	CP99_W _{1,4} := MAY_07 _{5,m,1}	CP99_W _{2,4} := JUN_07 _{5,m,1}
CP99_W _{0,5} OKT'R_07 _{6,m,1}	CP99_W _{1,5} := MAY_07 _{6,m,1}	CP99_W _{2,5} := JUN_07 _{6,m,1}
CP99_W _{0,6} := APR_07 _{7,m,1}	CP99_W _{1,6} := AUG_07 _{7,m,1}	CP99_W _{2,6} := JUN_07 _{7,m,1}
CP99_W _{3,0} := JUL_07 _{1,m,1}	CP99_W _{4,0} := AUG_07 _{1,m,1}	CP99_W _{5,0} := SEP_07 _{1,m,1}
CP99_W _{3,1} := JUL_07 _{2,m,1}	CP99_W _{4,1} := AUG_07 _{2,m,1}	CP99_W _{5,1} := SEP_07 _{2,m,1}
CP99_W _{3,2} := JUL_07 _{3,m,1}	CP99_W _{4,2} := AUG_07 _{3,m,1}	CP99_W _{5,2} := SEP_07 _{3,m,1}
CP99_W _{3,3} := JUL_07 _{4,m,1}	CP99_W _{4,3} := AUG_07 _{4,m,1}	CP99_W _{5,3} := SEP_07 _{4,m,1}
CP99_W _{3,4} := JUL_07 _{5,m,1}	CP99_W _{4,4} := AUG_07 _{5,m,1}	CP99_W _{5,4} := SEP_07 _{5,m,1}
CP99_W _{3,5} := JUL_07 _{6,m,1}	CP99_W _{4,5} := AUG_07 _{6,m,1}	CP99_W _{5,5} := SEP_07 _{6,m,1}
CP99_W _{3,6} := JUL_07 _{7,m,1}	CP99_W _{4,6} := AUG_07 _{7,m,1}	CP99_W _{5,6} := SEP_07 _{7,m,1}
CP99_W _{6,0} := OCT_07 _{1,m,1}	CP99_W _{7,0} := NOV_07 _{1,m,1}	CP99_W _{8,0} := DEC_07 _{1,m,1}
CP99_W _{6,1} := OCT_07 _{2,m,1}	CP99_W _{7,1} := NOV_07 _{2,m,1}	CP99_W _{8,1} := DEC_07 _{2,m,1}
CP99_W _{6,2} := OCT_07 _{3,m,1}	CP99_W _{7,2} := NOV_07 _{3,m,1}	CP99_W _{8,2} := DEC_07 _{3,m,1}
CP99_W _{6,3} := OCT_07 _{4,m,1}	CP99_W _{7,3} := NOV_07 _{4,m,1}	CP99_W _{8,3} := DEC_07 _{4,m,1}

CP99_W_{6,4} := OCT_07_{5,m,1} CP99_W_{7,4} := NOV_07_{5,m,1} CP99_W_{8,4} := DEC_07_{5,m,1}

CP99_W_{6,5} := OCT_07_{6,m,1} CP99_W_{7,5} := NOV_07_{6,m,1} CP99_W_{8,5} := DEC_07_{6,m,1}

CP99_W_{6,6} := OCT_07_{7,m,1} CP99_W_{7,6} := NOV_07_{7,m,1} CP99_W_{8,6} := DEC_07_{7,m,1}

CP99_W_{9,0} := JAN_08_{1,m,1} CP99_W_{10,0} := FEB_08_{2,m,1} CP99_W_{11,0} := MRT_08_{1,m,1}

CP99_W_{9,1} := JAN_08_{2,m,1} CP99_W_{10,1} := FEB_08_{2,m,1} CP99_W_{11,1} := MRT_08_{2,m,1}

CP99_W_{9,2} := JAN_08_{3,m,1} CP99_W_{10,2} := FEB_08_{2,m,1} CP99_W_{11,2} := MRT_08_{3,m,1}

CP99_W_{9,3} := JAN_08_{4,m,1} CP99_W_{10,3} := FEB_08_{2,m,1} CP99_W_{11,3} := MRT_08_{4,m,1}

CP99_W_{9,4} := JAN_08_{5,m,1} CP99_W_{10,4} := FEB_08_{2,m,1} CP99_W_{11,4} := MRT_08_{5,m,1}

CP99_W_{9,5} := JAN_08_{6,m,1} CP99_W_{10,5} := FEB_08_{2,m,1} CP99_W_{11,5} := MRT_08_{6,m,1}

CP99_W_{9,6} := JAN_08_{7,m,1} CP99_W_{10,6} := FEB_08_{2,m,1} CP99_W_{11,6} := MRT_08_{7,m,1}

CP99_W_{12,0} := APR_08_{1,m,1} CP99_W_{13,0} := MAY_08_{1,m,1} CP99_W_{14,0} := JUN_08_{1,m,1}

CP99_W_{12,1} := APR_08_{2,m,1} CP99_W_{13,1} := MAY_08_{2,m,1} CP99_W_{14,1} := JUN_08_{2,m,1}

CP99_W_{12,2} := APR_08_{3,m,1} CP99_W_{13,2} := MAY_08_{3,m,1} CP99_W_{14,2} := JUN_08_{3,m,1}

CP99_W_{12,3} := APR_08_{4,m,1} CP99_W_{13,3} := MAY_08_{4,m,1} CP99_W_{14,3} := JUN_08_{4,m,1}

CP99_W_{12,4} := APR_08_{5,m,1} CP99_W_{13,4} := MAY_08_{5,m,1} CP99_W_{14,4} := JUN_08_{5,m,1}

CP99_W_{12,5} := APR_08_{6,m,1} CP99_W_{13,5} := MAY_08_{6,m,1} CP99_W_{14,5} := JUN_08_{6,m,1}

CP99_W_{12,6} := APR_08_{7,m,1} CP99_W_{13,6} := AUG_08_{7,m,1} CP99_W_{14,6} := JUN_08_{7,m,1}

CP99_W_{15,0} := JUL_08_{1,m,1} CP99_W_{16,0} := AUG_08_{1,m,1} CP99_W_{17,0} := SEP_08_{1,m,1}

CP99_W_{15,1} := JUL_08_{2,m,1} CP99_W_{16,1} := AUG_08_{2,m,1} CP99_W_{17,1} := SEP_08_{2,m,1}

CP99_W_{15,2} := JUL_08_{3,m,1} CP99_W_{16,2} := AUG_08_{3,m,1} CP99_W_{17,2} := SEP_08_{3,m,1}

CP99_W_{15,3} := JUL_08_{4,m,1} CP99_W_{16,3} := AUG_08_{4,m,1} CP99_W_{17,3} := SEP_08_{4,m,1}

CP99_W_{15,4} := JUL_08_{5,m,1} CP99_W_{16,4} := AUG_08_{5,m,1} CP99_W_{17,4} := SEP_08_{5,m,1}

CP99_W_{15,5} := JUL_08_{6,m,1} CP99_W_{16,5} := AUG_08_{6,m,1} CP99_W_{17,5} := SEP_08_{6,m,1}

CP99_W_{15,6} := JUL_08_{7,m,1} CP99_W_{16,6} := AUG_08_{7,m,1} CP99_W_{17,6} := SEP_08_{7,m,1}

$$\begin{aligned}
& \text{CP99_W}_{18,0} := \text{OCT_08}_{1m,1} & \text{CP99_W}_{19,0} := \text{NOV_08}_{1m,1} & \text{CP99_W}_{20,0} := \text{DEC_08}_{1m,1} \\
& \text{CP99_W}_{18,1} := \text{OCT_08}_{2m,1} & \text{CP99_W}_{19,1} := \text{NOV_08}_{2m,1} & \text{CP99_W}_{20,1} := \text{DEC_08}_{2m,1} \\
& \text{CP99_W}_{18,2} := \text{OCT_08}_{3m,1} & \text{CP99_W}_{19,2} := \text{NOV_08}_{3m,1} & \text{CP99_W}_{20,2} := \text{DEC_08}_{3m,1} \\
& \text{CP99_W}_{18,3} := \text{OCT_08}_{4m,1} & \text{CP99_W}_{19,3} := \text{NOV_08}_{4m,1} & \text{CP99_W}_{20,3} := \text{DEC_08}_{4m,1} \\
& \text{CP99_W}_{18,4} := \text{OCT_08}_{5m,1} & \text{CP99_W}_{19,4} := \text{NOV_08}_{5m,1} & \text{CP99_W}_{20,4} := \text{DEC_08}_{5m,1} \\
& \text{CP99_W}_{18,5} := \text{OCT_08}_{6m,1} & \text{CP99_W}_{19,5} := \text{NOV_08}_{6m,1} & \text{CP99_W}_{20,5} := \text{DEC_08}_{6m,1} \\
& \text{CP99_W}_{18,6} := \text{OCT_08}_{7m,1} & \text{CP99_W}_{19,6} := \text{NOV_08}_{7m,1} & \text{CP99_W}_{20,6} := \text{DEC_08}_{7m,1} \\
\\
& \text{CP99_W}_{21,0} := \text{JAN_09}_{1m,1} & \text{CP99_W}_{22,0} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,0} := \text{MRT_09}_{1m,1} \\
& \text{CP99_W}_{21,1} := \text{JAN_09}_{2m,1} & \text{CP99_W}_{22,1} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,1} := \text{MRT_09}_{2m,1} \\
& \text{CP99_W}_{21,2} := \text{JAN_09}_{3m,1} & \text{CP99_W}_{22,2} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,2} := \text{MRT_09}_{3m,1} \\
& \text{CP99_W}_{21,3} := \text{JAN_09}_{4m,1} & \text{CP99_W}_{22,3} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,3} := \text{MRT_09}_{4m,1} \\
& \text{CP99_W}_{21,4} := \text{JAN_09}_{5m,1} & \text{CP99_W}_{22,4} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,4} := \text{MRT_09}_{5m,1} \\
& \text{CP99_W}_{21,5} := \text{JAN_09}_{6m,1} & \text{CP99_W}_{22,5} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,5} := \text{MRT_09}_{6m,1} \\
& \text{CP99_W}_{21,6} := \text{JAN_09}_{7m,1} & \text{CP99_W}_{22,6} := \text{FEB_09}_{2m,1} & \text{CP99_W}_{23,6} := \text{MRT_09}_{7m,1} \\
\\
& & \text{CP99_W}_{24,0} := \text{APR_09}_{1m,1} & \\
& & \text{CP99_W}_{24,1} := \text{APR_09}_{2m,1} & \\
& & \text{CP99_W}_{24,2} := \text{APR_09}_{3m,1} & \\
& & \text{CP99_W}_{24,3} := \text{APR_09}_{4m,1} & \\
& & \text{CP99_W}_{24,4} := \text{APR_09}_{5m,1} & \\
& & \text{CP99_W}_{24,5} := \text{APR_09}_{6m,1} & \\
& & \text{CP99_W}_{24,6} := \text{APR_09}_{7m,1} &
\end{aligned}$$

99% AVERAGE THD PHASE MATRIX

$m := 23$

Marker

CP99_AV _{0,0} := APR_07 ₁ _{m,1}	CP99_AV _{1,0} := MAY_07 ₁ _{m,1}	CP99_AV _{2,0} := JUN_07 ₁ _{m,1}
CP99_AV _{0,1} := APR_07 ₂ _{m,1}	CP99_AV _{1,1} := MAY_07 ₂ _{m,1}	CP99_AV _{2,1} := JUN_07 ₂ _{m,1}
CP99_AV _{0,2} := APR_07 ₃ _{m,1}	CP99_AV _{1,2} := MAY_07 ₃ _{m,1}	CP99_AV _{2,2} := JUN_07 ₃ _{m,1}
CP99_AV _{0,3} := APR_07 ₄ _{m,1}	CP99_AV _{1,3} := MAY_07 ₄ _{m,1}	CP99_AV _{2,3} := JUN_07 ₄ _{m,1}
CP99_AV _{0,4} := APR_07 ₅ _{m,1}	CP99_AV _{1,4} := MAY_07 ₅ _{m,1}	CP99_AV _{2,4} := JUN_07 ₅ _{m,1}
CP99_AV _{0,5} := APR_07 ₆ _{m,1}	CP99_AV _{1,5} := MAY_07 ₆ _{m,1}	CP99_AV _{2,5} := JUN_07 ₆ _{m,1}
CP99_AV _{0,6} := APR_07 ₇ _{m,1}	CP99_AV _{1,6} := AUG_07 ₇ _{m,1}	CP99_AV _{2,6} := JUN_07 ₇ _{m,1}
CP99_AV _{3,0} := JUL_07 ₁ _{m,1}	CP99_AV _{4,0} := AUG_07 ₁ _{m,1}	CP99_AV _{5,0} := SEP_07 ₁ _{m,1}
CP99_AV _{3,1} := JUL_07 ₂ _{m,1}	CP99_AV _{4,1} := AUG_07 ₂ _{m,1}	CP99_AV _{5,1} := SEP_07 ₂ _{m,1}
CP99_AV _{3,2} := JUL_07 ₃ _{m,1}	CP99_AV _{4,2} := AUG_07 ₃ _{m,1}	CP99_AV _{5,2} := SEP_07 ₃ _{m,1}
CP99_AV _{3,3} := JUL_07 ₄ _{m,1}	CP99_AV _{4,3} := AUG_07 ₄ _{m,1}	CP99_AV _{5,3} := SEP_07 ₄ _{m,1}
CP99_AV _{3,4} := JUL_07 ₅ _{m,1}	CP99_AV _{4,4} := AUG_07 ₅ _{m,1}	CP99_AV _{5,4} := SEP_07 ₅ _{m,1}
CP99_AV _{3,5} := JUL_07 ₆ _{m,1}	CP99_AV _{4,5} := AUG_07 ₆ _{m,1}	CP99_AV _{5,5} := SEP_07 ₆ _{m,1}
CP99_AV _{3,6} := JUL_07 ₇ _{m,1}	CP99_AV _{4,6} := AUG_07 ₇ _{m,1}	CP99_AV _{5,6} := SEP_07 ₇ _{m,1}
CP99_AV _{6,0} := OCT_07 ₁ _{m,1}	CP99_AV _{7,0} := NOV_07 ₁ _{m,1}	CP99_AV _{8,0} := DEC_07 ₁ _{m,1}
CP99_AV _{6,1} := OCT_07 ₂ _{m,1}	CP99_AV _{7,1} := NOV_07 ₂ _{m,1}	CP99_AV _{8,1} := DEC_07 ₂ _{m,1}
CP99_AV _{6,2} := OCT_07 ₃ _{m,1}	CP99_AV _{7,2} := NOV_07 ₃ _{m,1}	CP99_AV _{8,2} := DEC_07 ₃ _{m,1}
CP99_AV _{6,3} := OCT_07 ₄ _{m,1}	CP99_AV _{7,3} := NOV_07 ₄ _{m,1}	CP99_AV _{8,3} := DEC_07 ₄ _{m,1}
CP99_AV _{6,4} := OCT_07 ₅ _{m,1}	CP99_AV _{7,4} := NOV_07 ₅ _{m,1}	CP99_AV _{8,4} := DEC_07 ₅ _{m,1}
CP99_AV _{6,5} := OCT_07 ₆ _{m,1}	CP99_AV _{7,5} := NOV_07 ₆ _{m,1}	CP99_AV _{8,5} := DEC_07 ₆ _{m,1}
CP99_AV _{6,6} := OCT_07 ₇ _{m,1}	CP99_AV _{7,6} := NOV_07 ₇ _{m,1}	CP99_AV _{8,6} := DEC_07 ₇ _{m,1}
CP99_AV _{9,0} := JAN_08 ₁ _{m,1}	CP99_AV _{10,0} := FEB_08 ₂ _{m,1}	CP99_AV _{11,0} := MRT_08 ₁ _{m,1}
CP99_AV _{9,1} := JAN_08 ₂ _{m,1}	CP99_AV _{10,1} := FEB_08 ₂ _{m,1}	CP99_AV _{11,1} := MRT_08 ₂ _{m,1}
CP99_AV _{9,2} := JAN_08 ₃ _{m,1}	CP99_AV _{10,2} := FEB_08 ₂ _{m,1}	CP99_AV _{11,2} := MRT_08 ₃ _{m,1}
CP99_AV _{9,3} := JAN_08 ₄ _{m,1}	CP99_AV _{10,3} := FEB_08 ₂ _{m,1}	CP99_AV _{11,3} := MRT_08 ₄ _{m,1}

$CP99_AV_{9,4} := JAN_08_{5,m,1}$ $CP99_AV_{10,4} := FEB_08_{2,m,1}$ $CP99_AV_{11,4} := MRT_08_{5,m,1}$
 $CP99_AV_{9,5} := JAN_08_{6,m,1}$ $CP99_AV_{10,5} := FEB_08_{2,m,1}$ $CP99_AV_{11,5} := MRT_08_{6,m,1}$
 $CP99_AV_{9,6} := JAN_08_{7,m,1}$ $CP99_AV_{10,6} := FEB_08_{2,m,1}$ $CP99_AV_{11,6} := MRT_08_{7,m,1}$

$CP99_AV_{12,0} := APR_08_{1,m,1}$ $CP99_AV_{13,0} := MAY_08_{1,m,1}$ $CP99_AV_{14,0} := JUN_08_{1,m,1}$
 $CP99_AV_{12,1} := APR_08_{2,m,1}$ $CP99_AV_{13,1} := MAY_08_{2,m,1}$ $CP99_AV_{14,1} := JUN_08_{2,m,1}$
 $CP99_AV_{12,2} := APR_08_{3,m,1}$ $CP99_AV_{13,2} := MAY_08_{3,m,1}$ $CP99_AV_{14,2} := JUN_08_{3,m,1}$
 $CP99_AV_{12,3} := APR_08_{4,m,1}$ $CP99_AV_{13,3} := MAY_08_{4,m,1}$ $CP99_AV_{14,3} := JUN_08_{4,m,1}$
 $CP99_AV_{12,4} := APR_08_{5,m,1}$ $CP99_AV_{13,4} := MAY_08_{5,m,1}$ $CP99_AV_{14,4} := JUN_08_{5,m,1}$
 $CP99_AV_{12,5} := APR_08_{6,m,1}$ $CP99_AV_{13,5} := MAY_08_{6,m,1}$ $CP99_AV_{14,5} := JUN_08_{6,m,1}$
 $CP99_AV_{12,6} := APR_08_{7,m,1}$ $CP99_AV_{13,6} := AUG_08_{7,m,1}$ $CP99_AV_{14,6} := JUN_08_{7,m,1}$

$CP99_AV_{15,0} := JUL_08_{1,m,1}$ $CP99_AV_{16,0} := AUG_08_{1,m,1}$ $CP99_AV_{17,0} := SEP_08_{1,m,1}$
 $CP99_AV_{15,1} := JUL_08_{2,m,1}$ $CP99_AV_{16,1} := AUG_08_{2,m,1}$ $CP99_AV_{17,1} := SEP_08_{2,m,1}$
 $CP99_AV_{15,2} := JUL_08_{3,m,1}$ $CP99_AV_{16,2} := AUG_08_{3,m,1}$ $CP99_AV_{17,2} := SEP_08_{3,m,1}$
 $CP99_AV_{15,3} := JUL_08_{4,m,1}$ $CP99_AV_{16,3} := AUG_08_{4,m,1}$ $CP99_AV_{17,3} := SEP_08_{4,m,1}$
 $CP99_AV_{15,4} := JUL_08_{5,m,1}$ $CP99_AV_{16,4} := AUG_08_{5,m,1}$ $CP99_AV_{17,4} := SEP_08_{5,m,1}$
 $CP99_AV_{15,5} := JUL_08_{6,m,1}$ $CP99_AV_{16,5} := AUG_08_{6,m,1}$ $CP99_AV_{17,5} := SEP_08_{6,m,1}$
 $CP99_AV_{15,6} := JUL_08_{7,m,1}$ $CP99_AV_{16,6} := AUG_08_{7,m,1}$ $CP99_AV_{17,6} := SEP_08_{7,m,1}$

$CP99_AV_{18,0} := OCT_08_{1,m,1}$ $CP99_AV_{19,0} := NOV_08_{1,m,1}$ $CP99_AV_{20,0} := DEC_08_{1,m,1}$
 $CP99_AV_{18,1} := OCT_08_{2,m,1}$ $CP99_AV_{19,1} := NOV_08_{2,m,1}$ $CP99_AV_{20,1} := DEC_08_{2,m,1}$
 $CP99_AV_{18,2} := OCT_08_{3,m,1}$ $CP99_AV_{19,2} := NOV_08_{3,m,1}$ $CP99_AV_{20,2} := DEC_08_{3,m,1}$
 $CP99_AV_{18,3} := OCT_08_{4,m,1}$ $CP99_AV_{19,3} := NOV_08_{4,m,1}$ $CP99_AV_{20,3} := DEC_08_{4,m,1}$
 $CP99_AV_{18,4} := OCT_08_{5,m,1}$ $CP99_AV_{19,4} := NOV_08_{5,m,1}$ $CP99_AV_{20,4} := DEC_08_{5,m,1}$
 $CP99_AV_{18,5} := OCT_08_{6,m,1}$ $CP99_AV_{19,5} := NOV_08_{6,m,1}$ $CP99_AV_{20,5} := DEC_08_{6,m,1}$
 $CP99_AV_{18,6} := OCT_08_{7,m,1}$ $CP99_AV_{19,6} := NOV_08_{7,m,1}$ $CP99_AV_{20,6} := DEC_08_{7,m,1}$

$CP99_AV_{21,0} := JAN_09_{1,m,1}$ $CP99_AV_{22,0} := FEB_09_{2,m,1}$ $CP99_AV_{23,0} := MRT_09_{1,m,1}$
 $CP99_AV_{21,1} := JAN_09_{2,m,1}$ $CP99_AV_{22,1} := FEB_09_{2,m,1}$ $CP99_AV_{23,1} := MRT_09_{2,m,1}$
 $CP99_AV_{21,2} := JAN_09_{3,m,1}$ $CP99_AV_{22,2} := FEB_09_{2,m,1}$ $CP99_AV_{23,2} := MRT_09_{3,m,1}$
 $CP99_AV_{21,3} := JAN_09_{4,m,1}$ $CP99_AV_{22,3} := FEB_09_{2,m,1}$ $CP99_AV_{23,3} := MRT_09_{4,m,1}$
 $CP99_AV_{21,4} := JAN_09_{5,m,1}$ $CP99_AV_{22,4} := FEB_09_{2,m,1}$ $CP99_AV_{23,4} := MRT_09_{5,m,1}$
 $CP99_AV_{21,5} := JAN_09_{6,m,1}$ $CP99_AV_{22,5} := FEB_09_{2,m,1}$ $CP99_AV_{23,5} := MRT_09_{6,m,1}$
 $CP99_AV_{21,6} := JAN_09_{7,m,1}$ $CP99_AV_{22,6} := FEB_09_{2,m,1}$ $CP99_AV_{23,6} := MRT_09_{7,m,1}$

$CP99_AV_{24,0} := APR_09_{1,m,1}$

$CP99_AV_{24,1} := APR_09_{2,m,1}$

$CP99_AV_{24,2} := APR_09_{3,m,1}$

$CP99_AV_{24,3} := APR_09_{4,m,1}$

$CP99_AV_{24,4} := APR_09_{5,m,1}$

$CP99_AV_{24,5} := APR_09_{6,m,1}$

$CP99_AV_{24,6} := APR_09_{7,m,1}$

INDEX MATRIX

Markers

$m = 8;12;16$	-	Threshold > 1
$m = 9;13;17$	-	Threshold > 2
$m = 10;14;18$	-	Threshold > 3
$m = 11;15;19$	-	Threshold > 4

Index Blue - Threshold THD > 1

$m := 8$

$INDEX_{B1,0,0} := APR_07_{1,m,1}$ $INDEX_{B1,1,0} := MAY_07_{1,m,1}$ $INDEX_{B1,2,0} := JUN_07_{1,m,1}$
 $INDEX_{B1,0,1} := APR_07_{2,m,1}$ $INDEX_{B1,1,1} := MAY_07_{2,m,1}$ $INDEX_{B1,2,1} := JUN_07_{2,m,1}$
 $INDEX_{B1,0,2} := APR_07_{3,m,1}$ $INDEX_{B1,1,2} := MAY_07_{3,m,1}$ $INDEX_{B1,2,2} := JUN_07_{3,m,1}$
 $INDEX_{B1,0,3} := APR_07_{4,m,1}$ $INDEX_{B1,1,3} := MAY_07_{4,m,1}$ $INDEX_{B1,2,3} := JUN_07_{4,m,1}$
 $INDEX_{B1,0,4} := APR_07_{5,m,1}$ $INDEX_{B1,1,4} := MAY_07_{5,m,1}$ $INDEX_{B1,2,4} := JUN_07_{5,m,1}$

$\text{INDEX}_{B1_{0,5}} := \text{APR_07}_{6,m,1}$	$\text{INDEX}_{B1_{1,5}} := \text{MAY_07}_{6,m,1}$	$\text{INDEX}_{B1_{2,5}} := \text{JUN_07}_{6,m,1}$
$\text{INDEX}_{B1_{0,6}} := \text{APR_07}_{7,m,1}$	$\text{INDEX}_{B1_{1,6}} := \text{AUG_07}_{7,m,1}$	$\text{INDEX}_{B1_{2,6}} := \text{JUN_07}_{7,m,1}$
$\text{INDEX}_{B1_{3,0}} := \text{JUL_07}_{1,m,1}$	$\text{INDEX}_{B1_{4,0}} := \text{AUG_07}_{1,m,1}$	$\text{INDEX}_{B1_{5,0}} := \text{SEP_07}_{1,m,1}$
$\text{INDEX}_{B1_{3,1}} := \text{JUL_07}_{2,m,1}$	$\text{INDEX}_{B1_{4,1}} := \text{AUG_07}_{2,m,1}$	$\text{INDEX}_{B1_{5,1}} := \text{SEP_07}_{2,m,1}$
$\text{INDEX}_{B1_{3,2}} := \text{JUL_07}_{3,m,1}$	$\text{INDEX}_{B1_{4,2}} := \text{AUG_07}_{3,m,1}$	$\text{INDEX}_{B1_{5,2}} := \text{SEP_07}_{3,m,1}$
$\text{INDEX}_{B1_{3,3}} := \text{JUL_07}_{4,m,1}$	$\text{INDEX}_{B1_{4,3}} := \text{AUG_07}_{4,m,1}$	$\text{INDEX}_{B1_{5,3}} := \text{SEP_07}_{4,m,1}$
$\text{INDEX}_{B1_{3,4}} := \text{JUL_07}_{5,m,1}$	$\text{INDEX}_{B1_{4,4}} := \text{AUG_07}_{5,m,1}$	$\text{INDEX}_{B1_{5,4}} := \text{SEP_07}_{5,m,1}$
$\text{INDEX}_{B1_{3,5}} := \text{JUL_07}_{6,m,1}$	$\text{INDEX}_{B1_{4,5}} := \text{AUG_07}_{6,m,1}$	$\text{INDEX}_{B1_{5,5}} := \text{SEP_07}_{6,m,1}$
$\text{INDEX}_{B1_{3,6}} := \text{JUL_07}_{7,m,1}$	$\text{INDEX}_{B1_{4,6}} := \text{AUG_07}_{7,m,1}$	$\text{INDEX}_{B1_{5,6}} := \text{SEP_07}_{7,m,1}$
$\text{INDEX}_{B1_{6,0}} := \text{OCT_07}_{1,m,1}$	$\text{INDEX}_{B1_{7,0}} := \text{NOV_07}_{1,m,1}$	$\text{INDEX}_{B1_{8,0}} := \text{DEC_07}_{1,m,1}$
$\text{INDEX}_{B1_{6,1}} := \text{OCT_07}_{2,m,1}$	$\text{INDEX}_{B1_{7,1}} := \text{NOV_07}_{2,m,1}$	$\text{INDEX}_{B1_{8,1}} := \text{DEC_07}_{2,m,1}$
$\text{INDEX}_{B1_{6,2}} := \text{OCT_07}_{3,m,1}$	$\text{INDEX}_{B1_{7,2}} := \text{NOV_07}_{3,m,1}$	$\text{INDEX}_{B1_{8,2}} := \text{DEC_07}_{3,m,1}$
$\text{INDEX}_{B1_{6,3}} := \text{OCT_07}_{4,m,1}$	$\text{INDEX}_{B1_{7,3}} := \text{NOV_07}_{4,m,1}$	$\text{INDEX}_{B1_{8,3}} := \text{DEC_07}_{4,m,1}$
$\text{INDEX}_{B1_{6,4}} := \text{OCT_07}_{5,m,1}$	$\text{INDEX}_{B1_{7,4}} := \text{NOV_07}_{5,m,1}$	$\text{INDEX}_{B1_{8,4}} := \text{DEC_07}_{5,m,1}$
$\text{INDEX}_{B1_{6,5}} := \text{OCT_07}_{6,m,1}$	$\text{INDEX}_{B1_{7,5}} := \text{NOV_07}_{6,m,1}$	$\text{INDEX}_{B1_{8,5}} := \text{DEC_07}_{6,m,1}$
$\text{INDEX}_{B1_{6,6}} := \text{OCT_07}_{7,m,1}$	$\text{INDEX}_{B1_{7,6}} := \text{NOV_07}_{7,m,1}$	$\text{INDEX}_{B1_{8,6}} := \text{DEC_07}_{7,m,1}$
$\text{INDEX}_{B1_{9,0}} := \text{JAN_08}_{1,m,1}$	$\text{INDEX}_{B1_{10,0}} := \text{FEB_08}_{1,m,1}$	$\text{INDEX}_{B1_{11,0}} := \text{MRT_08}_{1,m,1}$
$\text{INDEX}_{B1_{9,1}} := \text{JAN_08}_{2,m,1}$	$\text{INDEX}_{B1_{10,1}} := \text{FEB_08}_{2,m,1}$	$\text{INDEX}_{B1_{11,1}} := \text{MRT_08}_{2,m,1}$
$\text{INDEX}_{B1_{9,2}} := \text{JAN_08}_{3,m,1}$	$\text{INDEX}_{B1_{10,2}} := \text{FEB_08}_{3,m,1}$	$\text{INDEX}_{B1_{11,2}} := \text{MRT_08}_{3,m,1}$
$\text{INDEX}_{B1_{9,3}} := \text{JAN_08}_{4,m,1}$	$\text{INDEX}_{B1_{10,3}} := \text{FEB_08}_{4,m,1}$	$\text{INDEX}_{B1_{11,3}} := \text{MRT_08}_{4,m,1}$
$\text{INDEX}_{B1_{9,4}} := \text{JAN_08}_{5,m,1}$	$\text{INDEX}_{B1_{10,4}} := \text{FEB_08}_{5,m,1}$	$\text{INDEX}_{B1_{11,4}} := \text{MRT_08}_{5,m,1}$
$\text{INDEX}_{B1_{9,5}} := \text{JAN_08}_{6,m,1}$	$\text{INDEX}_{B1_{10,5}} := \text{FEB_08}_{6,m,1}$	$\text{INDEX}_{B1_{11,5}} := \text{MRT_08}_{6,m,1}$
$\text{INDEX}_{B1_{9,6}} := \text{JAN_08}_{7,m,1}$	$\text{INDEX}_{B1_{10,6}} := \text{FEB_08}_{7,m,1}$	$\text{INDEX}_{B1_{11,6}} := \text{MRT_08}_{7,m,1}$
$\text{INDEX}_{B1_{12,0}} := \text{APR_08}_{1,m,1}$	$\text{INDEX}_{B1_{13,0}} := \text{MAY_08}_{1,m,1}$	$\text{INDEX}_{B1_{14,0}} := \text{JUN_08}_{1,m,1}$
$\text{INDEX}_{B1_{12,1}} := \text{APR_08}_{2,m,1}$	$\text{INDEX}_{B1_{13,1}} := \text{MAY_08}_{2,m,1}$	$\text{INDEX}_{B1_{14,1}} := \text{JUN_08}_{2,m,1}$

$\text{INDEX}_{B1_{12,2}} := \text{APR_08}_{3,m,1}$ $\text{INDEX}_{B1_{13,2}} := \text{MAY_08}_{3,m,1}$ $\text{INDEX}_{B1_{14,2}} := \text{JUN_08}_{3,m,1}$
 $\text{INDEX}_{B1_{12,3}} := \text{APR_08}_{4,m,1}$ $\text{INDEX}_{B1_{13,3}} := \text{MAY_08}_{4,m,1}$ $\text{INDEX}_{B1_{14,3}} := \text{JUN_08}_{4,m,1}$
 $\text{INDEX}_{B1_{12,4}} := \text{APR_08}_{5,m,1}$ $\text{INDEX}_{B1_{13,4}} := \text{MAY_08}_{5,m,1}$ $\text{INDEX}_{B1_{14,4}} := \text{JUN_08}_{5,m,1}$
 $\text{INDEX}_{B1_{12,5}} := \text{APR_08}_{6,m,1}$ $\text{INDEX}_{B1_{13,5}} := \text{MAY_08}_{6,m,1}$ $\text{INDEX}_{B1_{14,5}} := \text{JUN_08}_{6,m,1}$
 $\text{INDEX}_{B1_{12,6}} := \text{APR_08}_{7,m,1}$ $\text{INDEX}_{B1_{13,6}} := \text{AUG_08}_{7,m,1}$ $\text{INDEX}_{B1_{14,6}} := \text{JUN_08}_{7,m,1}$

$\text{INDEX}_{B1_{15,0}} := \text{JUL_08}_{1,m,1}$ $\text{INDEX}_{B1_{16,0}} := \text{AUG_08}_{1,m,1}$ $\text{INDEX}_{B1_{17,0}} := \text{SEP_08}_{1,m,1}$
 $\text{INDEX}_{B1_{15,1}} := \text{JUL_08}_{2,m,1}$ $\text{INDEX}_{B1_{16,1}} := \text{AUG_08}_{2,m,1}$ $\text{INDEX}_{B1_{17,1}} := \text{SEP_08}_{2,m,1}$
 $\text{INDEX}_{B1_{15,2}} := \text{JUL_08}_{3,m,1}$ $\text{INDEX}_{B1_{16,2}} := \text{AUG_08}_{3,m,1}$ $\text{INDEX}_{B1_{17,2}} := \text{SEP_08}_{3,m,1}$
 $\text{INDEX}_{B1_{15,3}} := \text{JUL_08}_{4,m,1}$ $\text{INDEX}_{B1_{16,3}} := \text{AUG_08}_{4,m,1}$ $\text{INDEX}_{B1_{17,3}} := \text{SEP_08}_{4,m,1}$
 $\text{INDEX}_{B1_{15,4}} := \text{JUL_08}_{5,m,1}$ $\text{INDEX}_{B1_{16,4}} := \text{AUG_08}_{5,m,1}$ $\text{INDEX}_{B1_{17,4}} := \text{SEP_08}_{5,m,1}$
 $\text{INDEX}_{B1_{15,5}} := \text{JUL_08}_{6,m,1}$ $\text{INDEX}_{B1_{16,5}} := \text{AUG_08}_{6,m,1}$ $\text{INDEX}_{B1_{17,5}} := \text{SEP_08}_{6,m,1}$
 $\text{INDEX}_{B1_{15,6}} := \text{JUL_08}_{7,m,1}$ $\text{INDEX}_{B1_{16,6}} := \text{AUG_08}_{7,m,1}$ $\text{INDEX}_{B1_{17,6}} := \text{SEP_08}_{7,m,1}$

$\text{INDEX}_{B1_{18,0}} := \text{OCT_08}_{1,m,1}$ $\text{INDEX}_{B1_{19,0}} := \text{NOV_08}_{1,m,1}$ $\text{INDEX}_{B1_{20,0}} := \text{DEC_08}_{1,m,1}$
 $\text{INDEX}_{B1_{18,1}} := \text{OCT_08}_{2,m,1}$ $\text{INDEX}_{B1_{19,1}} := \text{NOV_08}_{2,m,1}$ $\text{INDEX}_{B1_{20,1}} := \text{DEC_08}_{2,m,1}$
 $\text{INDEX}_{B1_{18,2}} := \text{OCT_08}_{3,m,1}$ $\text{INDEX}_{B1_{19,2}} := \text{NOV_08}_{3,m,1}$ $\text{INDEX}_{B1_{20,2}} := \text{DEC_08}_{3,m,1}$
 $\text{INDEX}_{B1_{18,3}} := \text{OCT_08}_{4,m,1}$ $\text{INDEX}_{B1_{19,3}} := \text{NOV_08}_{4,m,1}$ $\text{INDEX}_{B1_{20,3}} := \text{DEC_08}_{4,m,1}$
 $\text{INDEX}_{B1_{18,4}} := \text{OCT_08}_{5,m,1}$ $\text{INDEX}_{B1_{19,4}} := \text{NOV_08}_{5,m,1}$ $\text{INDEX}_{B1_{20,4}} := \text{DEC_08}_{5,m,1}$
 $\text{INDEX}_{B1_{18,5}} := \text{OCT_08}_{6,m,1}$ $\text{INDEX}_{B1_{19,5}} := \text{NOV_08}_{6,m,1}$ $\text{INDEX}_{B1_{20,5}} := \text{DEC_08}_{6,m,1}$
 $\text{INDEX}_{B1_{18,6}} := \text{OCT_08}_{7,m,1}$ $\text{INDEX}_{B1_{19,6}} := \text{NOV_08}_{7,m,1}$ $\text{INDEX}_{B1_{20,6}} := \text{DEC_08}_{7,m,1}$

$\text{INDEX}_{B1_{21,0}} := \text{JAN_09}_{1,m,1}$ $\text{INDEX}_{B1_{22,0}} := \text{FEB_09}_{1,m,1}$ $\text{INDEX}_{B1_{23,0}} := \text{MRT_09}_{1,m,1}$
 $\text{INDEX}_{B1_{21,1}} := \text{JAN_09}_{2,m,1}$ $\text{INDEX}_{B1_{22,1}} := \text{FEB_09}_{2,m,1}$ $\text{INDEX}_{B1_{23,1}} := \text{MRT_09}_{2,m,1}$
 $\text{INDEX}_{B1_{21,2}} := \text{JAN_09}_{3,m,1}$ $\text{INDEX}_{B1_{22,2}} := \text{FEB_09}_{3,m,1}$ $\text{INDEX}_{B1_{23,2}} := \text{MRT_09}_{3,m,1}$
 $\text{INDEX}_{B1_{21,3}} := \text{JAN_09}_{4,m,1}$ $\text{INDEX}_{B1_{22,3}} := \text{FEB_09}_{4,m,1}$ $\text{INDEX}_{B1_{23,3}} := \text{MRT_09}_{4,m,1}$
 $\text{INDEX}_{B1_{21,4}} := \text{JAN_09}_{5,m,1}$ $\text{INDEX}_{B1_{22,4}} := \text{FEB_09}_{5,m,1}$ $\text{INDEX}_{B1_{23,4}} := \text{MRT_09}_{5,m,1}$
 $\text{INDEX}_{B1_{21,5}} := \text{JAN_09}_{6,m,1}$ $\text{INDEX}_{B1_{22,5}} := \text{FEB_09}_{6,m,1}$ $\text{INDEX}_{B1_{23,5}} := \text{MRT_09}_{6,m,1}$

INDEX_{B1_{21,6}} := JAN_09_{7_{m,1}} INDEX_{B1_{22,6}} := FEB_09_{7_{m,1}} INDEX_{B1_{23,6}} := MRT_09_{7_{m,1}}

INDEX_{B1_{24,0}} := APR_09_{1_{m,1}}

INDEX_{B1_{24,1}} := APR_09_{2_{m,1}}

INDEX_{B1_{24,2}} := APR_09_{3_{m,1}}

INDEX_{B1_{24,3}} := APR_09_{4_{m,1}}

INDEX_{B1_{24,4}} := APR_09_{5_{m,1}}

INDEX_{B1_{24,5}} := APR_09_{6_{m,1}}

INDEX_{B1_{24,6}} := APR_09_{7_{m,1}}

Index Blue - Threshold THD > 2

m := 9

INDEX_{B2_{0,0}} := APR_07_{1_{m,1}} INDEX_{B2_{1,0}} := MAY_07_{1_{m,1}} INDEX_{B2_{2,0}} := JUN_07_{1_{m,1}}

INDEX_{B2_{0,1}} := APR_07_{2_{m,1}} INDEX_{B2_{1,1}} := MAY_07_{2_{m,1}} INDEX_{B2_{2,1}} := JUN_07_{2_{m,1}}

INDEX_{B2_{0,2}} := APR_07_{3_{m,1}} INDEX_{B2_{1,2}} := MAY_07_{3_{m,1}} INDEX_{B2_{2,2}} := JUN_07_{3_{m,1}}

INDEX_{B2_{0,3}} := APR_07_{4_{m,1}} INDEX_{B2_{1,3}} := MAY_07_{4_{m,1}} INDEX_{B2_{2,3}} := JUN_07_{4_{m,1}}

INDEX_{B2_{0,4}} := APR_07_{5_{m,1}} INDEX_{B2_{1,4}} := MAY_07_{5_{m,1}} INDEX_{B2_{2,4}} := JUN_07_{5_{m,1}}

INDEX_{B2_{0,5}} := APR_07_{6_{m,1}} INDEX_{B2_{1,5}} := MAY_07_{6_{m,1}} INDEX_{B2_{2,5}} := JUN_07_{6_{m,1}}

INDEX_{B2_{0,6}} := APR_07_{7_{m,1}} INDEX_{B2_{1,6}} := AUG_07_{7_{m,1}} INDEX_{B2_{2,6}} := JUN_07_{7_{m,1}}

INDEX_{B2_{3,0}} := JUL_07_{1_{m,1}} INDEX_{B2_{4,0}} := AUG_07_{1_{m,1}} INDEX_{B2_{5,0}} := SEP_07_{1_{m,1}}

INDEX_{B2_{3,1}} := JUL_07_{2_{m,1}} INDEX_{B2_{4,1}} := AUG_07_{2_{m,1}} INDEX_{B2_{5,1}} := SEP_07_{2_{m,1}}

INDEX_{B2_{3,2}} := JUL_07_{3_{m,1}} INDEX_{B2_{4,2}} := AUG_07_{3_{m,1}} INDEX_{B2_{5,2}} := SEP_07_{3_{m,1}}

INDEX_{B2_{3,3}} := JUL_07_{4_{m,1}} INDEX_{B2_{4,3}} := AUG_07_{4_{m,1}} INDEX_{B2_{5,3}} := SEP_07_{4_{m,1}}

INDEX_{B2_{3,4}} := JUL_07_{5_{m,1}} INDEX_{B2_{4,4}} := AUG_07_{5_{m,1}} INDEX_{B2_{5,4}} := SEP_07_{5_{m,1}}

INDEX_{B2_{3,5}} := JUL_07_{6_{m,1}} INDEX_{B2_{4,5}} := AUG_07_{6_{m,1}} INDEX_{B2_{5,5}} := SEP_07_{6_{m,1}}

INDEX_{B2_{3,6}} := JUL_07_{7_{m,1}} INDEX_{B2_{4,6}} := AUG_07_{7_{m,1}} INDEX_{B2_{5,6}} := SEP_07_{7_{m,1}}

INDEX_{B2_{6,0}} := OCT_07_{1_{m,1}} INDEX_{B2_{7,0}} := NOV_07_{1_{m,1}} INDEX_{B2_{8,0}} := DEC_07_{1_{m,1}}

$INDEX_{B2_{6,1}} := OCT_07_{2_{m,1}}$ $INDEX_{B2_{7,1}} := NOV_07_{2_{m,1}}$ $INDEX_{B2_{8,1}} := DEC_07_{2_{m,1}}$
 $INDEX_{B2_{6,2}} := OCT_07_{3_{m,1}}$ $INDEX_{B2_{7,2}} := NOV_07_{3_{m,1}}$ $INDEX_{B2_{8,2}} := DEC_07_{3_{m,1}}$
 $INDEX_{B2_{6,3}} := OCT_07_{4_{m,1}}$ $INDEX_{B2_{7,3}} := NOV_07_{4_{m,1}}$ $INDEX_{B2_{8,3}} := DEC_07_{4_{m,1}}$
 $INDEX_{B2_{6,4}} := OCT_07_{5_{m,1}}$ $INDEX_{B2_{7,4}} := NOV_07_{5_{m,1}}$ $INDEX_{B2_{8,4}} := DEC_07_{5_{m,1}}$
 $INDEX_{B2_{6,5}} := OCT_07_{6_{m,1}}$ $INDEX_{B2_{7,5}} := NOV_07_{6_{m,1}}$ $INDEX_{B2_{8,5}} := DEC_07_{6_{m,1}}$
 $INDEX_{B2_{6,6}} := OCT_07_{7_{m,1}}$ $INDEX_{B2_{7,6}} := NOV_07_{7_{m,1}}$ $INDEX_{B2_{8,6}} := DEC_07_{7_{m,1}}$

$INDEX_{B2_{9,0}} := JAN_08_{1_{m,1}}$ $INDEX_{B2_{10,0}} := FEB_08_{1_{m,1}}$ $INDEX_{B2_{11,0}} := MRT_08_{1_{m,1}}$
 $INDEX_{B2_{9,1}} := JAN_08_{2_{m,1}}$ $INDEX_{B2_{10,1}} := FEB_08_{2_{m,1}}$ $INDEX_{B2_{11,1}} := MRT_08_{2_{m,1}}$
 $INDEX_{B2_{9,2}} := JAN_08_{3_{m,1}}$ $INDEX_{B2_{10,2}} := FEB_08_{3_{m,1}}$ $INDEX_{B2_{11,2}} := MRT_08_{3_{m,1}}$
 $INDEX_{B2_{9,3}} := JAN_08_{4_{m,1}}$ $INDEX_{B2_{10,3}} := FEB_08_{4_{m,1}}$ $INDEX_{B2_{11,3}} := MRT_08_{4_{m,1}}$
 $INDEX_{B2_{9,4}} := JAN_08_{5_{m,1}}$ $INDEX_{B2_{10,4}} := FEB_08_{5_{m,1}}$ $INDEX_{B2_{11,4}} := MRT_08_{5_{m,1}}$
 $INDEX_{B2_{9,5}} := JAN_08_{6_{m,1}}$ $INDEX_{B2_{10,5}} := FEB_08_{6_{m,1}}$ $INDEX_{B2_{11,5}} := MRT_08_{6_{m,1}}$
 $INDEX_{B2_{9,6}} := JAN_08_{7_{m,1}}$ $INDEX_{B2_{10,6}} := FEB_08_{7_{m,1}}$ $INDEX_{B2_{11,6}} := MRT_08_{7_{m,1}}$

$INDEX_{B2_{12,0}} := APR_08_{1_{m,1}}$ $INDEX_{B2_{13,0}} := MAY_08_{1_{m,1}}$ $INDEX_{B2_{14,0}} := JUN_08_{1_{m,1}}$
 $INDEX_{B2_{12,1}} := APR_08_{2_{m,1}}$ $INDEX_{B2_{13,1}} := MAY_08_{2_{m,1}}$ $INDEX_{B2_{14,1}} := JUN_08_{2_{m,1}}$
 $INDEX_{B2_{12,2}} := APR_08_{3_{m,1}}$ $INDEX_{B2_{13,2}} := MAY_08_{3_{m,1}}$ $INDEX_{B2_{14,2}} := JUN_08_{3_{m,1}}$
 $INDEX_{B2_{12,3}} := APR_08_{4_{m,1}}$ $INDEX_{B2_{13,3}} := MAY_08_{4_{m,1}}$ $INDEX_{B2_{14,3}} := JUN_08_{4_{m,1}}$
 $INDEX_{B2_{12,4}} := APR_08_{5_{m,1}}$ $INDEX_{B2_{13,4}} := MAY_08_{5_{m,1}}$ $INDEX_{B2_{14,4}} := JUN_08_{5_{m,1}}$
 $INDEX_{B2_{12,5}} := APR_08_{6_{m,1}}$ $INDEX_{B2_{13,5}} := MAY_08_{6_{m,1}}$ $INDEX_{B2_{14,5}} := JUN_08_{6_{m,1}}$
 $INDEX_{B2_{12,6}} := APR_08_{7_{m,1}}$ $INDEX_{B2_{13,6}} := AUG_08_{7_{m,1}}$ $INDEX_{B2_{14,6}} := JUN_08_{7_{m,1}}$

$INDEX_{B2_{15,0}} := JUL_08_{1_{m,1}}$ $INDEX_{B2_{16,0}} := AUG_08_{1_{m,1}}$ $INDEX_{B2_{17,0}} := SEP_08_{1_{m,1}}$
 $INDEX_{B2_{15,1}} := JUL_08_{2_{m,1}}$ $INDEX_{B2_{16,1}} := AUG_08_{2_{m,1}}$ $INDEX_{B2_{17,1}} := SEP_08_{2_{m,1}}$
 $INDEX_{B2_{15,2}} := JUL_08_{3_{m,1}}$ $INDEX_{B2_{16,2}} := AUG_08_{3_{m,1}}$ $INDEX_{B2_{17,2}} := SEP_08_{3_{m,1}}$
 $INDEX_{B2_{15,3}} := JUL_08_{4_{m,1}}$ $INDEX_{B2_{16,3}} := AUG_08_{4_{m,1}}$ $INDEX_{B2_{17,3}} := SEP_08_{4_{m,1}}$
 $INDEX_{B2_{15,4}} := JUL_08_{5_{m,1}}$ $INDEX_{B2_{16,4}} := AUG_08_{5_{m,1}}$ $INDEX_{B2_{17,4}} := SEP_08_{5_{m,1}}$

$INDEX_{B2_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{B2_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{B2_{17,5}} := SEP_08_{6,m,1}$
 $INDEX_{B2_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{B2_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{B2_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{B2_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{B2_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{B2_{20,0}} := DEC_08_{1,m,1}$
 $INDEX_{B2_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{B2_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{B2_{20,1}} := DEC_08_{2,m,1}$
 $INDEX_{B2_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{B2_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{B2_{20,2}} := DEC_08_{3,m,1}$
 $INDEX_{B2_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{B2_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{B2_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{B2_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{B2_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{B2_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{B2_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{B2_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{B2_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{B2_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{B2_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{B2_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{B2_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{B2_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{B2_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{B2_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{B2_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{B2_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{B2_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{B2_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{B2_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{B2_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{B2_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{B2_{23,3}} := MRT_09_{4,m,1}$
 $INDEX_{B2_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{B2_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{B2_{23,4}} := MRT_09_{5,m,1}$
 $INDEX_{B2_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{B2_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{B2_{23,5}} := MRT_09_{6,m,1}$
 $INDEX_{B2_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{B2_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{B2_{23,6}} := MRT_09_{7,m,1}$

$INDEX_{B2_{24,0}} := APR_09_{1,m,1}$
 $INDEX_{B2_{24,1}} := APR_09_{2,m,1}$
 $INDEX_{B2_{24,2}} := APR_09_{3,m,1}$
 $INDEX_{B2_{24,3}} := APR_09_{4,m,1}$
 $INDEX_{B2_{24,4}} := APR_09_{5,m,1}$
 $INDEX_{B2_{24,5}} := APR_09_{6,m,1}$
 $INDEX_{B2_{24,6}} := APR_09_{7,m,1}$

Index Blue - Threshold THD > 3

$m := 10$

$INDEX_{B3_{0,0}} := APR_07_{1m,1}$	$INDEX_{B3_{1,0}} := MAY_07_{1m,1}$	$INDEX_{B3_{2,0}} := JUN_07_{1m,1}$
$INDEX_{B3_{0,1}} := APR_07_{2m,1}$	$INDEX_{B3_{1,1}} := MAY_07_{2m,1}$	$INDEX_{B3_{2,1}} := JUN_07_{2m,1}$
$INDEX_{B3_{0,2}} := APR_07_{3m,1}$	$INDEX_{B3_{1,2}} := MAY_07_{3m,1}$	$INDEX_{B3_{2,2}} := JUN_07_{3m,1}$
$INDEX_{B3_{0,3}} := APR_07_{4m,1}$	$INDEX_{B3_{1,3}} := MAY_07_{4m,1}$	$INDEX_{B3_{2,3}} := JUN_07_{4m,1}$
$INDEX_{B3_{0,4}} := APR_07_{5m,1}$	$INDEX_{B3_{1,4}} := MAY_07_{5m,1}$	$INDEX_{B3_{2,4}} := JUN_07_{5m,1}$
$INDEX_{B3_{0,5}} := APR_07_{6m,1}$	$INDEX_{B3_{1,5}} := MAY_07_{6m,1}$	$INDEX_{B3_{2,5}} := JUN_07_{6m,1}$
$INDEX_{B3_{0,6}} := APR_07_{7m,1}$	$INDEX_{B3_{1,6}} := AUG_07_{7m,1}$	$INDEX_{B3_{2,6}} := JUN_07_{7m,1}$
$INDEX_{B3_{3,0}} := JUL_07_{1m,1}$	$INDEX_{B3_{4,0}} := AUG_07_{1m,1}$	$INDEX_{B3_{5,0}} := SEP_07_{1m,1}$
$INDEX_{B3_{3,1}} := JUL_07_{2m,1}$	$INDEX_{B3_{4,1}} := AUG_07_{2m,1}$	$INDEX_{B3_{5,1}} := SEP_07_{2m,1}$
$INDEX_{B3_{3,2}} := JUL_07_{3m,1}$	$INDEX_{B3_{4,2}} := AUG_07_{3m,1}$	$INDEX_{B3_{5,2}} := SEP_07_{3m,1}$
$INDEX_{B3_{3,3}} := JUL_07_{4m,1}$	$INDEX_{B3_{4,3}} := AUG_07_{4m,1}$	$INDEX_{B3_{5,3}} := SEP_07_{4m,1}$
$INDEX_{B3_{3,4}} := JUL_07_{5m,1}$	$INDEX_{B3_{4,4}} := AUG_07_{5m,1}$	$INDEX_{B3_{5,4}} := SEP_07_{5m,1}$
$INDEX_{B3_{3,5}} := JUL_07_{6m,1}$	$INDEX_{B3_{4,5}} := AUG_07_{6m,1}$	$INDEX_{B3_{5,5}} := SEP_07_{6m,1}$
$INDEX_{B3_{3,6}} := JUL_07_{7m,1}$	$INDEX_{B3_{4,6}} := AUG_07_{7m,1}$	$INDEX_{B3_{5,6}} := SEP_07_{7m,1}$
$INDEX_{B3_{6,0}} := OCT_07_{1m,1}$	$INDEX_{B3_{7,0}} := NOV_07_{1m,1}$	$INDEX_{B3_{8,0}} := DEC_07_{1m,1}$
$INDEX_{B3_{6,1}} := OCT_07_{2m,1}$	$INDEX_{B3_{7,1}} := NOV_07_{2m,1}$	$INDEX_{B3_{8,1}} := DEC_07_{2m,1}$
$INDEX_{B3_{6,2}} := OCT_07_{3m,1}$	$INDEX_{B3_{7,2}} := NOV_07_{3m,1}$	$INDEX_{B3_{8,2}} := DEC_07_{3m,1}$
$INDEX_{B3_{6,3}} := OCT_07_{4m,1}$	$INDEX_{B3_{7,3}} := NOV_07_{4m,1}$	$INDEX_{B3_{8,3}} := DEC_07_{4m,1}$
$INDEX_{B3_{6,4}} := OCT_07_{5m,1}$	$INDEX_{B3_{7,4}} := NOV_07_{5m,1}$	$INDEX_{B3_{8,4}} := DEC_07_{5m,1}$
$INDEX_{B3_{6,5}} := OCT_07_{6m,1}$	$INDEX_{B3_{7,5}} := NOV_07_{6m,1}$	$INDEX_{B3_{8,5}} := DEC_07_{6m,1}$
$INDEX_{B3_{6,6}} := OCT_07_{7m,1}$	$INDEX_{B3_{7,6}} := NOV_07_{7m,1}$	$INDEX_{B3_{8,6}} := DEC_07_{7m,1}$
$INDEX_{B3_{9,0}} := JAN_08_{1m,1}$	$INDEX_{B3_{10,0}} := FEB_08_{1m,1}$	$INDEX_{B3_{11,0}} := MRT_08_{1m,1}$
$INDEX_{B3_{9,1}} := JAN_08_{2m,1}$	$INDEX_{B3_{10,1}} := FEB_08_{2m,1}$	$INDEX_{B3_{11,1}} := MRT_08_{2m,1}$
$INDEX_{B3_{9,2}} := JAN_08_{3m,1}$	$INDEX_{B3_{10,2}} := FEB_08_{3m,1}$	$INDEX_{B3_{11,2}} := MRT_08_{3m,1}$
$INDEX_{B3_{9,3}} := JAN_08_{4m,1}$	$INDEX_{B3_{10,3}} := FEB_08_{4m,1}$	$INDEX_{B3_{11,3}} := MRT_08_{4m,1}$
$INDEX_{B3_{9,4}} := JAN_08_{5m,1}$	$INDEX_{B3_{10,4}} := FEB_08_{5m,1}$	$INDEX_{B3_{11,4}} := MRT_08_{5m,1}$

$\text{INDEX}_{B3_{9,5}} := \text{JAN_08}_{6,m,1}$ $\text{INDEX}_{B3_{10,5}} := \text{FEB_08}_{6,m,1}$ $\text{INDEX}_{B3_{11,5}} := \text{MRT_08}_{6,m,1}$
 $\text{INDEX}_{B3_{9,6}} := \text{JAN_08}_{7,m,1}$ $\text{INDEX}_{B3_{10,6}} := \text{FEB_08}_{7,m,1}$ $\text{INDEX}_{B3_{11,6}} := \text{MRT_08}_{7,m,1}$

$\text{INDEX}_{B3_{12,0}} := \text{APR_08}_{1,m,1}$ $\text{INDEX}_{B3_{13,0}} := \text{MAY_08}_{1,m,1}$ $\text{INDEX}_{B3_{14,0}} := \text{JUN_08}_{1,m,1}$
 $\text{INDEX}_{B3_{12,1}} := \text{APR_08}_{2,m,1}$ $\text{INDEX}_{B3_{13,1}} := \text{MAY_08}_{2,m,1}$ $\text{INDEX}_{B3_{14,1}} := \text{JUN_08}_{2,m,1}$
 $\text{INDEX}_{B3_{12,2}} := \text{APR_08}_{3,m,1}$ $\text{INDEX}_{B3_{13,2}} := \text{MAY_08}_{3,m,1}$ $\text{INDEX}_{B3_{14,2}} := \text{JUN_08}_{3,m,1}$
 $\text{INDEX}_{B3_{12,3}} := \text{APR_08}_{4,m,1}$ $\text{INDEX}_{B3_{13,3}} := \text{MAY_08}_{4,m,1}$ $\text{INDEX}_{B3_{14,3}} := \text{JUN_08}_{4,m,1}$
 $\text{INDEX}_{B3_{12,4}} := \text{APR_08}_{5,m,1}$ $\text{INDEX}_{B3_{13,4}} := \text{MAY_08}_{5,m,1}$ $\text{INDEX}_{B3_{14,4}} := \text{JUN_08}_{5,m,1}$
 $\text{INDEX}_{B3_{12,5}} := \text{APR_08}_{6,m,1}$ $\text{INDEX}_{B3_{13,5}} := \text{MAY_08}_{6,m,1}$ $\text{INDEX}_{B3_{14,5}} := \text{JUN_08}_{6,m,1}$
 $\text{INDEX}_{B3_{12,6}} := \text{APR_08}_{7,m,1}$ $\text{INDEX}_{B3_{13,6}} := \text{AUG_08}_{7,m,1}$ $\text{INDEX}_{B3_{14,6}} := \text{JUN_08}_{7,m,1}$

$\text{INDEX}_{B3_{15,0}} := \text{JUL_08}_{1,m,1}$ $\text{INDEX}_{B3_{16,0}} := \text{AUG_08}_{1,m,1}$ $\text{INDEX}_{B3_{17,0}} := \text{SEP_08}_{1,m,1}$
 $\text{INDEX}_{B3_{15,1}} := \text{JUL_08}_{2,m,1}$ $\text{INDEX}_{B3_{16,1}} := \text{AUG_08}_{2,m,1}$ $\text{INDEX}_{B3_{17,1}} := \text{SEP_08}_{2,m,1}$
 $\text{INDEX}_{B3_{15,2}} := \text{JUL_08}_{3,m,1}$ $\text{INDEX}_{B3_{16,2}} := \text{AUG_08}_{3,m,1}$ $\text{INDEX}_{B3_{17,2}} := \text{SEP_08}_{3,m,1}$
 $\text{INDEX}_{B3_{15,3}} := \text{JUL_08}_{4,m,1}$ $\text{INDEX}_{B3_{16,3}} := \text{AUG_08}_{4,m,1}$ $\text{INDEX}_{B3_{17,3}} := \text{SEP_08}_{4,m,1}$
 $\text{INDEX}_{B3_{15,4}} := \text{JUL_08}_{5,m,1}$ $\text{INDEX}_{B3_{16,4}} := \text{AUG_08}_{5,m,1}$ $\text{INDEX}_{B3_{17,4}} := \text{SEP_08}_{5,m,1}$
 $\text{INDEX}_{B3_{15,5}} := \text{JUL_08}_{6,m,1}$ $\text{INDEX}_{B3_{16,5}} := \text{AUG_08}_{6,m,1}$ $\text{INDEX}_{B3_{17,5}} := \text{SEP_08}_{6,m,1}$
 $\text{INDEX}_{B3_{15,6}} := \text{JUL_08}_{7,m,1}$ $\text{INDEX}_{B3_{16,6}} := \text{AUG_08}_{7,m,1}$ $\text{INDEX}_{B3_{17,6}} := \text{SEP_08}_{7,m,1}$

$\text{INDEX}_{B3_{18,0}} := \text{OCT_08}_{1,m,1}$ $\text{INDEX}_{B3_{19,0}} := \text{NOV_08}_{1,m,1}$ $\text{INDEX}_{B3_{20,0}} := \text{DEC_08}_{1,m,1}$
 $\text{INDEX}_{B3_{18,1}} := \text{OCT_08}_{2,m,1}$ $\text{INDEX}_{B3_{19,1}} := \text{NOV_08}_{2,m,1}$ $\text{INDEX}_{B3_{20,1}} := \text{DEC_08}_{2,m,1}$
 $\text{INDEX}_{B3_{18,2}} := \text{OCT_08}_{3,m,1}$ $\text{INDEX}_{B3_{19,2}} := \text{NOV_08}_{3,m,1}$ $\text{INDEX}_{B3_{20,2}} := \text{DEC_08}_{3,m,1}$
 $\text{INDEX}_{B3_{18,3}} := \text{OCT_08}_{4,m,1}$ $\text{INDEX}_{B3_{19,3}} := \text{NOV_08}_{4,m,1}$ $\text{INDEX}_{B3_{20,3}} := \text{DEC_08}_{4,m,1}$
 $\text{INDEX}_{B3_{18,4}} := \text{OCT_08}_{5,m,1}$ $\text{INDEX}_{B3_{19,4}} := \text{NOV_08}_{5,m,1}$ $\text{INDEX}_{B3_{20,4}} := \text{DEC_08}_{5,m,1}$
 $\text{INDEX}_{B3_{18,5}} := \text{OCT_08}_{6,m,1}$ $\text{INDEX}_{B3_{19,5}} := \text{NOV_08}_{6,m,1}$ $\text{INDEX}_{B3_{20,5}} := \text{DEC_08}_{6,m,1}$
 $\text{INDEX}_{B3_{18,6}} := \text{OCT_08}_{7,m,1}$ $\text{INDEX}_{B3_{19,6}} := \text{NOV_08}_{7,m,1}$ $\text{INDEX}_{B3_{20,6}} := \text{DEC_08}_{7,m,1}$

$\text{INDEX}_{B3_{21,0}} := \text{JAN_09}_{1,m,1}$ $\text{INDEX}_{B3_{22,0}} := \text{FEB_09}_{1,m,1}$ $\text{INDEX}_{B3_{23,0}} := \text{MRT_09}_{1,m,1}$

$INDEX_{B3_{21,1}} := JAN_09_{2_{m,1}}$	$INDEX_{B3_{22,1}} := FEB_09_{2_{m,1}}$	$INDEX_{B3_{23,1}} := MRT_09_{2_{m,1}}$
$INDEX_{B3_{21,2}} := JAN_09_{3_{m,1}}$	$INDEX_{B3_{22,2}} := FEB_09_{3_{m,1}}$	$INDEX_{B3_{23,2}} := MRT_09_{3_{m,1}}$
$INDEX_{B3_{21,3}} := JAN_09_{4_{m,1}}$	$INDEX_{B3_{22,3}} := FEB_09_{4_{m,1}}$	$INDEX_{B3_{23,3}} := MRT_09_{4_{m,1}}$
$INDEX_{B3_{21,4}} := JAN_09_{5_{m,1}}$	$INDEX_{B3_{22,4}} := FEB_09_{5_{m,1}}$	$INDEX_{B3_{23,4}} := MRT_09_{5_{m,1}}$
$INDEX_{B3_{21,5}} := JAN_09_{6_{m,1}}$	$INDEX_{B3_{22,5}} := FEB_09_{6_{m,1}}$	$INDEX_{B3_{23,5}} := MRT_09_{6_{m,1}}$
$INDEX_{B3_{21,6}} := JAN_09_{7_{m,1}}$	$INDEX_{B3_{22,6}} := FEB_09_{7_{m,1}}$	$INDEX_{B3_{23,6}} := MRT_09_{7_{m,1}}$

$INDEX_{B3_{24,0}} := APR_09_{1_{m,1}}$
 $INDEX_{B3_{24,1}} := APR_09_{2_{m,1}}$
 $INDEX_{B3_{24,2}} := APR_09_{3_{m,1}}$
 $INDEX_{B3_{24,3}} := APR_09_{4_{m,1}}$
 $INDEX_{B3_{24,4}} := APR_09_{5_{m,1}}$
 $INDEX_{B3_{24,5}} := APR_09_{6_{m,1}}$
 $INDEX_{B3_{24,6}} := APR_09_{7_{m,1}}$

Index Blue - Threshold THD > 4

$m := 11$

$INDEX_{B4_{0,0}} := APR_07_{1_{m,1}}$	$INDEX_{B4_{1,0}} := MAY_07_{1_{m,1}}$	$INDEX_{B4_{2,0}} := JUN_07_{1_{m,1}}$
$INDEX_{B4_{0,1}} := APR_07_{2_{m,1}}$	$INDEX_{B4_{1,1}} := MAY_07_{2_{m,1}}$	$INDEX_{B4_{2,1}} := JUN_07_{2_{m,1}}$
$INDEX_{B4_{0,2}} := APR_07_{3_{m,1}}$	$INDEX_{B4_{1,2}} := MAY_07_{3_{m,1}}$	$INDEX_{B4_{2,2}} := JUN_07_{3_{m,1}}$
$INDEX_{B4_{0,3}} := APR_07_{4_{m,1}}$	$INDEX_{B4_{1,3}} := MAY_07_{4_{m,1}}$	$INDEX_{B4_{2,3}} := JUN_07_{4_{m,1}}$
$INDEX_{B4_{0,4}} := APR_07_{5_{m,1}}$	$INDEX_{B4_{1,4}} := MAY_07_{5_{m,1}}$	$INDEX_{B4_{2,4}} := JUN_07_{5_{m,1}}$
$INDEX_{B4_{0,5}} := APR_07_{6_{m,1}}$	$INDEX_{B4_{1,5}} := MAY_07_{6_{m,1}}$	$INDEX_{B4_{2,5}} := JUN_07_{6_{m,1}}$
$INDEX_{B4_{0,6}} := APR_07_{7_{m,1}}$	$INDEX_{B4_{1,6}} := AUG_07_{7_{m,1}}$	$INDEX_{B4_{2,6}} := JUN_07_{7_{m,1}}$
$INDEX_{B4_{3,0}} := JUL_07_{1_{m,1}}$	$INDEX_{B4_{4,0}} := AUG_07_{1_{m,1}}$	$INDEX_{B4_{5,0}} := SEP_07_{1_{m,1}}$
$INDEX_{B4_{3,1}} := JUL_07_{2_{m,1}}$	$INDEX_{B4_{4,1}} := AUG_07_{2_{m,1}}$	$INDEX_{B4_{5,1}} := SEP_07_{2_{m,1}}$
$INDEX_{B4_{3,2}} := JUL_07_{3_{m,1}}$	$INDEX_{B4_{4,2}} := AUG_07_{3_{m,1}}$	$INDEX_{B4_{5,2}} := SEP_07_{3_{m,1}}$
$INDEX_{B4_{3,3}} := JUL_07_{4_{m,1}}$	$INDEX_{B4_{4,3}} := AUG_07_{4_{m,1}}$	$INDEX_{B4_{5,3}} := SEP_07_{4_{m,1}}$

$INDEX_{B4_{3,4}} := JUL_07_{5_{m,1}}$	$INDEX_{B4_{4,4}} := AUG_07_{5_{m,1}}$	$INDEX_{B4_{5,4}} := SEP_07_{5_{m,1}}$
$INDEX_{B4_{3,5}} := JUL_07_{6_{m,1}}$	$INDEX_{B4_{4,5}} := AUG_07_{6_{m,1}}$	$INDEX_{B4_{5,5}} := SEP_07_{6_{m,1}}$
$INDEX_{B4_{3,6}} := JUL_07_{7_{m,1}}$	$INDEX_{B4_{4,6}} := AUG_07_{7_{m,1}}$	$INDEX_{B4_{5,6}} := SEP_07_{7_{m,1}}$
$INDEX_{B4_{6,0}} := OCT_07_{1_{m,1}}$	$INDEX_{B4_{7,0}} := NOV_07_{1_{m,1}}$	$INDEX_{B4_{8,0}} := DEC_07_{1_{m,1}}$
$INDEX_{B4_{6,1}} := OCT_07_{2_{m,1}}$	$INDEX_{B4_{7,1}} := NOV_07_{2_{m,1}}$	$INDEX_{B4_{8,1}} := DEC_07_{2_{m,1}}$
$INDEX_{B4_{6,2}} := OCT_07_{3_{m,1}}$	$INDEX_{B4_{7,2}} := NOV_07_{3_{m,1}}$	$INDEX_{B4_{8,2}} := DEC_07_{3_{m,1}}$
$INDEX_{B4_{6,3}} := OCT_07_{4_{m,1}}$	$INDEX_{B4_{7,3}} := NOV_07_{4_{m,1}}$	$INDEX_{B4_{8,3}} := DEC_07_{4_{m,1}}$
$INDEX_{B4_{6,4}} := OCT_07_{5_{m,1}}$	$INDEX_{B4_{7,4}} := NOV_07_{5_{m,1}}$	$INDEX_{B4_{8,4}} := DEC_07_{5_{m,1}}$
$INDEX_{B4_{6,5}} := OCT_07_{6_{m,1}}$	$INDEX_{B4_{7,5}} := NOV_07_{6_{m,1}}$	$INDEX_{B4_{8,5}} := DEC_07_{6_{m,1}}$
$INDEX_{B4_{6,6}} := OCT_07_{7_{m,1}}$	$INDEX_{B4_{7,6}} := NOV_07_{7_{m,1}}$	$INDEX_{B4_{8,6}} := DEC_07_{7_{m,1}}$
$INDEX_{B4_{9,0}} := JAN_08_{1_{m,1}}$	$INDEX_{B4_{10,0}} := FEB_08_{1_{m,1}}$	$INDEX_{B4_{11,0}} := MRT_08_{1_{m,1}}$
$INDEX_{B4_{9,1}} := JAN_08_{2_{m,1}}$	$INDEX_{B4_{10,1}} := FEB_08_{2_{m,1}}$	$INDEX_{B4_{11,1}} := MRT_08_{2_{m,1}}$
$INDEX_{B4_{9,2}} := JAN_08_{3_{m,1}}$	$INDEX_{B4_{10,2}} := FEB_08_{3_{m,1}}$	$INDEX_{B4_{11,2}} := MRT_08_{3_{m,1}}$
$INDEX_{B4_{9,3}} := JAN_08_{4_{m,1}}$	$INDEX_{B4_{10,3}} := FEB_08_{4_{m,1}}$	$INDEX_{B4_{11,3}} := MRT_08_{4_{m,1}}$
$INDEX_{B4_{9,4}} := JAN_08_{5_{m,1}}$	$INDEX_{B4_{10,4}} := FEB_08_{5_{m,1}}$	$INDEX_{B4_{11,4}} := MRT_08_{5_{m,1}}$
$INDEX_{B4_{9,5}} := JAN_08_{6_{m,1}}$	$INDEX_{B4_{10,5}} := FEB_08_{6_{m,1}}$	$INDEX_{B4_{11,5}} := MRT_08_{6_{m,1}}$
$INDEX_{B4_{9,6}} := JAN_08_{7_{m,1}}$	$INDEX_{B4_{10,6}} := FEB_08_{7_{m,1}}$	$INDEX_{B4_{11,6}} := MRT_08_{7_{m,1}}$
$INDEX_{B4_{12,0}} := APR_08_{1_{m,1}}$	$INDEX_{B4_{13,0}} := MAY_08_{1_{m,1}}$	$INDEX_{B4_{14,0}} := JUN_08_{1_{m,1}}$
$INDEX_{B4_{12,1}} := APR_08_{2_{m,1}}$	$INDEX_{B4_{13,1}} := MAY_08_{2_{m,1}}$	$INDEX_{B4_{14,1}} := JUN_08_{2_{m,1}}$
$INDEX_{B4_{12,2}} := APR_08_{3_{m,1}}$	$INDEX_{B4_{13,2}} := MAY_08_{3_{m,1}}$	$INDEX_{B4_{14,2}} := JUN_08_{3_{m,1}}$
$INDEX_{B4_{12,3}} := APR_08_{4_{m,1}}$	$INDEX_{B4_{13,3}} := MAY_08_{4_{m,1}}$	$INDEX_{B4_{14,3}} := JUN_08_{4_{m,1}}$
$INDEX_{B4_{12,4}} := APR_08_{5_{m,1}}$	$INDEX_{B4_{13,4}} := MAY_08_{5_{m,1}}$	$INDEX_{B4_{14,4}} := JUN_08_{5_{m,1}}$
$INDEX_{B4_{12,5}} := APR_08_{6_{m,1}}$	$INDEX_{B4_{13,5}} := MAY_08_{6_{m,1}}$	$INDEX_{B4_{14,5}} := JUN_08_{6_{m,1}}$
$INDEX_{B4_{12,6}} := APR_08_{7_{m,1}}$	$INDEX_{B4_{13,6}} := AUG_08_{7_{m,1}}$	$INDEX_{B4_{14,6}} := JUN_08_{7_{m,1}}$

$INDEX_{B4_{15,0}} := JUL_08_{1,m,1}$ $INDEX_{B4_{16,0}} := AUG_08_{1,m,1}$ $INDEX_{B4_{17,0}} := SEP_08_{1,m,1}$
 $INDEX_{B4_{15,1}} := JUL_08_{2,m,1}$ $INDEX_{B4_{16,1}} := AUG_08_{2,m,1}$ $INDEX_{B4_{17,1}} := SEP_08_{2,m,1}$
 $INDEX_{B4_{15,2}} := JUL_08_{3,m,1}$ $INDEX_{B4_{16,2}} := AUG_08_{3,m,1}$ $INDEX_{B4_{17,2}} := SEP_08_{3,m,1}$
 $INDEX_{B4_{15,3}} := JUL_08_{4,m,1}$ $INDEX_{B4_{16,3}} := AUG_08_{4,m,1}$ $INDEX_{B4_{17,3}} := SEP_08_{4,m,1}$
 $INDEX_{B4_{15,4}} := JUL_08_{5,m,1}$ $INDEX_{B4_{16,4}} := AUG_08_{5,m,1}$ $INDEX_{B4_{17,4}} := SEP_08_{5,m,1}$
 $INDEX_{B4_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{B4_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{B4_{17,5}} := SEP_08_{6,m,1}$
 $INDEX_{B4_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{B4_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{B4_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{B4_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{B4_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{B4_{20,0}} := DEC_08_{1,m,1}$
 $INDEX_{B4_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{B4_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{B4_{20,1}} := DEC_08_{2,m,1}$
 $INDEX_{B4_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{B4_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{B4_{20,2}} := DEC_08_{3,m,1}$
 $INDEX_{B4_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{B4_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{B4_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{B4_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{B4_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{B4_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{B4_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{B4_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{B4_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{B4_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{B4_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{B4_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{B4_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{B4_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{B4_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{B4_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{B4_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{B4_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{B4_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{B4_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{B4_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{B4_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{B4_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{B4_{23,3}} := MRT_09_{4,m,1}$
 $INDEX_{B4_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{B4_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{B4_{23,4}} := MRT_09_{5,m,1}$
 $INDEX_{B4_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{B4_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{B4_{23,5}} := MRT_09_{6,m,1}$
 $INDEX_{B4_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{B4_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{B4_{23,6}} := MRT_09_{7,m,1}$

$INDEX_{B4_{24,0}} := APR_09_{1,m,1}$

$INDEX_{B4_{24,1}} := APR_09_{2,m,1}$

$INDEX_{B4_{24,2}} := APR_09_{3,m,1}$

$INDEX_{B4_{24,3}} := APR_09_{4,m,1}$

$$\text{INDEX}_{B4_{24,4}} := \text{APR_09}_{5_{m,1}}$$

$$\text{INDEX}_{B4_{24,5}} := \text{APR_09}_{6_{m,1}}$$

$$\text{INDEX}_{B4_{24,6}} := \text{APR_09}_{7_{m,1}}$$

Index Red - Threshold THD > 1

$$m := 12$$

$\text{INDEX}_{R1_{0,0}} := \text{APR_07}_{1_{m,1}}$	$\text{INDEX}_{R1_{1,0}} := \text{MAY_07}_{1_{m,1}}$	$\text{INDEX}_{R1_{2,0}} := \text{JUN_07}_{1_{m,1}}$
$\text{INDEX}_{R1_{0,1}} := \text{APR_07}_{2_{m,1}}$	$\text{INDEX}_{R1_{1,1}} := \text{MAY_07}_{2_{m,1}}$	$\text{INDEX}_{R1_{2,1}} := \text{JUN_07}_{2_{m,1}}$
$\text{INDEX}_{R1_{0,2}} := \text{APR_07}_{3_{m,1}}$	$\text{INDEX}_{R1_{1,2}} := \text{MAY_07}_{3_{m,1}}$	$\text{INDEX}_{R1_{2,2}} := \text{JUN_07}_{3_{m,1}}$
$\text{INDEX}_{R1_{0,3}} := \text{APR_07}_{4_{m,1}}$	$\text{INDEX}_{R1_{1,3}} := \text{MAY_07}_{4_{m,1}}$	$\text{INDEX}_{R1_{2,3}} := \text{JUN_07}_{4_{m,1}}$
$\text{INDEX}_{R1_{0,4}} := \text{APR_07}_{5_{m,1}}$	$\text{INDEX}_{R1_{1,4}} := \text{MAY_07}_{5_{m,1}}$	$\text{INDEX}_{R1_{2,4}} := \text{JUN_07}_{5_{m,1}}$
$\text{INDEX}_{R1_{0,5}} := \text{APR_07}_{6_{m,1}}$	$\text{INDEX}_{R1_{1,5}} := \text{MAY_07}_{6_{m,1}}$	$\text{INDEX}_{R1_{2,5}} := \text{JUN_07}_{6_{m,1}}$
$\text{INDEX}_{R1_{0,6}} := \text{APR_07}_{7_{m,1}}$	$\text{INDEX}_{R1_{1,6}} := \text{AUG_07}_{7_{m,1}}$	$\text{INDEX}_{R1_{2,6}} := \text{JUN_07}_{7_{m,1}}$
$\text{INDEX}_{R1_{3,0}} := \text{JUL_07}_{1_{m,1}}$	$\text{INDEX}_{R1_{4,0}} := \text{AUG_07}_{1_{m,1}}$	$\text{INDEX}_{R1_{5,0}} := \text{SEP_07}_{1_{m,1}}$
$\text{INDEX}_{R1_{3,1}} := \text{JUL_07}_{2_{m,1}}$	$\text{INDEX}_{R1_{4,1}} := \text{AUG_07}_{2_{m,1}}$	$\text{INDEX}_{R1_{5,1}} := \text{SEP_07}_{2_{m,1}}$
$\text{INDEX}_{R1_{3,2}} := \text{JUL_07}_{3_{m,1}}$	$\text{INDEX}_{R1_{4,2}} := \text{AUG_07}_{3_{m,1}}$	$\text{INDEX}_{R1_{5,2}} := \text{SEP_07}_{3_{m,1}}$
$\text{INDEX}_{R1_{3,3}} := \text{JUL_07}_{4_{m,1}}$	$\text{INDEX}_{R1_{4,3}} := \text{AUG_07}_{4_{m,1}}$	$\text{INDEX}_{R1_{5,3}} := \text{SEP_07}_{4_{m,1}}$
$\text{INDEX}_{R1_{3,4}} := \text{JUL_07}_{5_{m,1}}$	$\text{INDEX}_{R1_{4,4}} := \text{AUG_07}_{5_{m,1}}$	$\text{INDEX}_{R1_{5,4}} := \text{SEP_07}_{5_{m,1}}$
$\text{INDEX}_{R1_{3,5}} := \text{JUL_07}_{6_{m,1}}$	$\text{INDEX}_{R1_{4,5}} := \text{AUG_07}_{6_{m,1}}$	$\text{INDEX}_{R1_{5,5}} := \text{SEP_07}_{6_{m,1}}$
$\text{INDEX}_{R1_{3,6}} := \text{JUL_07}_{7_{m,1}}$	$\text{INDEX}_{R1_{4,6}} := \text{AUG_07}_{7_{m,1}}$	$\text{INDEX}_{R1_{5,6}} := \text{SEP_07}_{7_{m,1}}$
$\text{INDEX}_{R1_{6,0}} := \text{OCT_07}_{1_{m,1}}$	$\text{INDEX}_{R1_{7,0}} := \text{NOV_07}_{1_{m,1}}$	$\text{INDEX}_{R1_{8,0}} := \text{DEC_07}_{1_{m,1}}$
$\text{INDEX}_{R1_{6,1}} := \text{OCT_07}_{2_{m,1}}$	$\text{INDEX}_{R1_{7,1}} := \text{NOV_07}_{2_{m,1}}$	$\text{INDEX}_{R1_{8,1}} := \text{DEC_07}_{2_{m,1}}$
$\text{INDEX}_{R1_{6,2}} := \text{OCT_07}_{3_{m,1}}$	$\text{INDEX}_{R1_{7,2}} := \text{NOV_07}_{3_{m,1}}$	$\text{INDEX}_{R1_{8,2}} := \text{DEC_07}_{3_{m,1}}$
$\text{INDEX}_{R1_{6,3}} := \text{OCT_07}_{4_{m,1}}$	$\text{INDEX}_{R1_{7,3}} := \text{NOV_07}_{4_{m,1}}$	$\text{INDEX}_{R1_{8,3}} := \text{DEC_07}_{4_{m,1}}$
$\text{INDEX}_{R1_{6,4}} := \text{OCT_07}_{5_{m,1}}$	$\text{INDEX}_{R1_{7,4}} := \text{NOV_07}_{5_{m,1}}$	$\text{INDEX}_{R1_{8,4}} := \text{DEC_07}_{5_{m,1}}$
$\text{INDEX}_{R1_{6,5}} := \text{OCT_07}_{6_{m,1}}$	$\text{INDEX}_{R1_{7,5}} := \text{NOV_07}_{6_{m,1}}$	$\text{INDEX}_{R1_{8,5}} := \text{DEC_07}_{6_{m,1}}$
$\text{INDEX}_{R1_{6,6}} := \text{OCT_07}_{7_{m,1}}$	$\text{INDEX}_{R1_{7,6}} := \text{NOV_07}_{7_{m,1}}$	$\text{INDEX}_{R1_{8,6}} := \text{DEC_07}_{7_{m,1}}$

$\text{INDEX}_{R1_{9,0}} := \text{JAN_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{10,0}} := \text{FEB_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{11,0}} := \text{MRT_08}_{1_{m,1}}$
$\text{INDEX}_{R1_{9,1}} := \text{JAN_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{10,1}} := \text{FEB_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{11,1}} := \text{MRT_08}_{2_{m,1}}$
$\text{INDEX}_{R1_{9,2}} := \text{JAN_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{10,2}} := \text{FEB_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{11,2}} := \text{MRT_08}_{3_{m,1}}$
$\text{INDEX}_{R1_{9,3}} := \text{JAN_08}_{4_{m,1}}$	$\text{INDEX}_{R1_{10,3}} := \text{FEB_08}_{4_{m,1}}$	$\text{INDEX}_{R1_{11,3}} := \text{MRT_08}_{4_{m,1}}$
$\text{INDEX}_{R1_{9,4}} := \text{JAN_08}_{5_{m,1}}$	$\text{INDEX}_{R1_{10,4}} := \text{FEB_08}_{5_{m,1}}$	$\text{INDEX}_{R1_{11,4}} := \text{MRT_08}_{5_{m,1}}$
$\text{INDEX}_{R1_{9,5}} := \text{JAN_08}_{6_{m,1}}$	$\text{INDEX}_{R1_{10,5}} := \text{FEB_08}_{6_{m,1}}$	$\text{INDEX}_{R1_{11,5}} := \text{MRT_08}_{6_{m,1}}$
$\text{INDEX}_{R1_{9,6}} := \text{JAN_08}_{7_{m,1}}$	$\text{INDEX}_{R1_{10,6}} := \text{FEB_08}_{7_{m,1}}$	$\text{INDEX}_{R1_{11,6}} := \text{MRT_08}_{7_{m,1}}$

$\text{INDEX}_{R1_{12,0}} := \text{APR_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{13,0}} := \text{MAY_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{14,0}} := \text{JUN_08}_{1_{m,1}}$
$\text{INDEX}_{R1_{12,1}} := \text{APR_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{13,1}} := \text{MAY_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{14,1}} := \text{JUN_08}_{2_{m,1}}$
$\text{INDEX}_{R1_{12,2}} := \text{APR_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{13,2}} := \text{MAY_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{14,2}} := \text{JUN_08}_{3_{m,1}}$
$\text{INDEX}_{R1_{12,3}} := \text{APR_08}_{4_{m,1}}$	$\text{INDEX}_{R1_{13,3}} := \text{MAY_08}_{4_{m,1}}$	$\text{INDEX}_{R1_{14,3}} := \text{JUN_08}_{4_{m,1}}$
$\text{INDEX}_{R1_{12,4}} := \text{APR_08}_{5_{m,1}}$	$\text{INDEX}_{R1_{13,4}} := \text{MAY_08}_{5_{m,1}}$	$\text{INDEX}_{R1_{14,4}} := \text{JUN_08}_{5_{m,1}}$
$\text{INDEX}_{R1_{12,5}} := \text{APR_08}_{6_{m,1}}$	$\text{INDEX}_{R1_{13,5}} := \text{MAY_08}_{6_{m,1}}$	$\text{INDEX}_{R1_{14,5}} := \text{JUN_08}_{6_{m,1}}$
$\text{INDEX}_{R1_{12,6}} := \text{APR_08}_{7_{m,1}}$	$\text{INDEX}_{R1_{13,6}} := \text{AUG_08}_{7_{m,1}}$	$\text{INDEX}_{R1_{14,6}} := \text{JUN_08}_{7_{m,1}}$

$\text{INDEX}_{R1_{15,0}} := \text{JUL_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{16,0}} := \text{AUG_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{17,0}} := \text{SEP_08}_{1_{m,1}}$
$\text{INDEX}_{R1_{15,1}} := \text{JUL_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{16,1}} := \text{AUG_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{17,1}} := \text{SEP_08}_{2_{m,1}}$
$\text{INDEX}_{R1_{15,2}} := \text{JUL_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{16,2}} := \text{AUG_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{17,2}} := \text{SEP_08}_{3_{m,1}}$
$\text{INDEX}_{R1_{15,3}} := \text{JUL_08}_{4_{m,1}}$	$\text{INDEX}_{R1_{16,3}} := \text{AUG_08}_{4_{m,1}}$	$\text{INDEX}_{R1_{17,3}} := \text{SEP_08}_{4_{m,1}}$
$\text{INDEX}_{R1_{15,4}} := \text{JUL_08}_{5_{m,1}}$	$\text{INDEX}_{R1_{16,4}} := \text{AUG_08}_{5_{m,1}}$	$\text{INDEX}_{R1_{17,4}} := \text{SEP_08}_{5_{m,1}}$
$\text{INDEX}_{R1_{15,5}} := \text{JUL_08}_{6_{m,1}}$	$\text{INDEX}_{R1_{16,5}} := \text{AUG_08}_{6_{m,1}}$	$\text{INDEX}_{R1_{17,5}} := \text{SEP_08}_{6_{m,1}}$
$\text{INDEX}_{R1_{15,6}} := \text{JUL_08}_{7_{m,1}}$	$\text{INDEX}_{R1_{16,6}} := \text{AUG_08}_{7_{m,1}}$	$\text{INDEX}_{R1_{17,6}} := \text{SEP_08}_{7_{m,1}}$

$\text{INDEX}_{R1_{18,0}} := \text{OCT_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{19,0}} := \text{NOV_08}_{1_{m,1}}$	$\text{INDEX}_{R1_{20,0}} := \text{DEC_08}_{1_{m,1}}$
$\text{INDEX}_{R1_{18,1}} := \text{OCT_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{19,1}} := \text{NOV_08}_{2_{m,1}}$	$\text{INDEX}_{R1_{20,1}} := \text{DEC_08}_{2_{m,1}}$
$\text{INDEX}_{R1_{18,2}} := \text{OCT_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{19,2}} := \text{NOV_08}_{3_{m,1}}$	$\text{INDEX}_{R1_{20,2}} := \text{DEC_08}_{3_{m,1}}$

$INDEX_{R1_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{R1_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{R1_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{R1_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{R1_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{R1_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{R1_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{R1_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{R1_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{R1_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{R1_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{R1_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{R1_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{R1_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{R1_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{R1_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{R1_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{R1_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{R1_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{R1_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{R1_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{R1_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{R1_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{R1_{23,3}} := MRT_09_{4,m,1}$
 $INDEX_{R1_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{R1_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{R1_{23,4}} := MRT_09_{5,m,1}$
 $INDEX_{R1_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{R1_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{R1_{23,5}} := MRT_09_{6,m,1}$
 $INDEX_{R1_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{R1_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{R1_{23,6}} := MRT_09_{7,m,1}$

$INDEX_{R1_{24,0}} := APR_09_{1,m,1}$
 $INDEX_{R1_{24,1}} := APR_09_{2,m,1}$
 $INDEX_{R1_{24,2}} := APR_09_{3,m,1}$
 $INDEX_{R1_{24,3}} := APR_09_{4,m,1}$
 $INDEX_{R1_{24,4}} := APR_09_{5,m,1}$
 $INDEX_{R1_{24,5}} := APR_09_{6,m,1}$
 $INDEX_{R1_{24,6}} := APR_09_{7,m,1}$

Index Red - Threshold THD > 2

$m := 13$

$INDEX_{R2_{0,0}} := APR_07_{1,m,1}$ $INDEX_{R2_{1,0}} := MAY_07_{1,m,1}$ $INDEX_{R2_{2,0}} := JUN_07_{1,m,1}$
 $INDEX_{R2_{0,1}} := APR_07_{2,m,1}$ $INDEX_{R2_{1,1}} := MAY_07_{2,m,1}$ $INDEX_{R2_{2,1}} := JUN_07_{2,m,1}$
 $INDEX_{R2_{0,2}} := APR_07_{3,m,1}$ $INDEX_{R2_{1,2}} := MAY_07_{3,m,1}$ $INDEX_{R2_{2,2}} := JUN_07_{3,m,1}$
 $INDEX_{R2_{0,3}} := APR_07_{4,m,1}$ $INDEX_{R2_{1,3}} := MAY_07_{4,m,1}$ $INDEX_{R2_{2,3}} := JUN_07_{4,m,1}$
 $INDEX_{R2_{0,4}} := APR_07_{5,m,1}$ $INDEX_{R2_{1,4}} := MAY_07_{5,m,1}$ $INDEX_{R2_{2,4}} := JUN_07_{5,m,1}$

$\text{INDEX}_{R2_{0,5}} := \text{APR_07}_{6,m,1}$	$\text{INDEX}_{R2_{1,5}} := \text{MAY_07}_{6,m,1}$	$\text{INDEX}_{R2_{2,5}} := \text{JUN_07}_{6,m,1}$
$\text{INDEX}_{R2_{0,6}} := \text{APR_07}_{7,m,1}$	$\text{INDEX}_{R2_{1,6}} := \text{AUG_07}_{7,m,1}$	$\text{INDEX}_{R2_{2,6}} := \text{JUN_07}_{7,m,1}$
$\text{INDEX}_{R2_{3,0}} := \text{JUL_07}_{1,m,1}$	$\text{INDEX}_{R2_{4,0}} := \text{AUG_07}_{1,m,1}$	$\text{INDEX}_{R2_{5,0}} := \text{SEP_07}_{1,m,1}$
$\text{INDEX}_{R2_{3,1}} := \text{JUL_07}_{2,m,1}$	$\text{INDEX}_{R2_{4,1}} := \text{AUG_07}_{2,m,1}$	$\text{INDEX}_{R2_{5,1}} := \text{SEP_07}_{2,m,1}$
$\text{INDEX}_{R2_{3,2}} := \text{JUL_07}_{3,m,1}$	$\text{INDEX}_{R2_{4,2}} := \text{AUG_07}_{3,m,1}$	$\text{INDEX}_{R2_{5,2}} := \text{SEP_07}_{3,m,1}$
$\text{INDEX}_{R2_{3,3}} := \text{JUL_07}_{4,m,1}$	$\text{INDEX}_{R2_{4,3}} := \text{AUG_07}_{4,m,1}$	$\text{INDEX}_{R2_{5,3}} := \text{SEP_07}_{4,m,1}$
$\text{INDEX}_{R2_{3,4}} := \text{JUL_07}_{5,m,1}$	$\text{INDEX}_{R2_{4,4}} := \text{AUG_07}_{5,m,1}$	$\text{INDEX}_{R2_{5,4}} := \text{SEP_07}_{5,m,1}$
$\text{INDEX}_{R2_{3,5}} := \text{JUL_07}_{6,m,1}$	$\text{INDEX}_{R2_{4,5}} := \text{AUG_07}_{6,m,1}$	$\text{INDEX}_{R2_{5,5}} := \text{SEP_07}_{6,m,1}$
$\text{INDEX}_{R2_{3,6}} := \text{JUL_07}_{7,m,1}$	$\text{INDEX}_{R2_{4,6}} := \text{AUG_07}_{7,m,1}$	$\text{INDEX}_{R2_{5,6}} := \text{SEP_07}_{7,m,1}$
$\text{INDEX}_{R2_{6,0}} := \text{OCT_07}_{1,m,1}$	$\text{INDEX}_{R2_{7,0}} := \text{NOV_07}_{1,m,1}$	$\text{INDEX}_{R2_{8,0}} := \text{DEC_07}_{1,m,1}$
$\text{INDEX}_{R2_{6,1}} := \text{OCT_07}_{2,m,1}$	$\text{INDEX}_{R2_{7,1}} := \text{NOV_07}_{2,m,1}$	$\text{INDEX}_{R2_{8,1}} := \text{DEC_07}_{2,m,1}$
$\text{INDEX}_{R2_{6,2}} := \text{OCT_07}_{3,m,1}$	$\text{INDEX}_{R2_{7,2}} := \text{NOV_07}_{3,m,1}$	$\text{INDEX}_{R2_{8,2}} := \text{DEC_07}_{3,m,1}$
$\text{INDEX}_{R2_{6,3}} := \text{OCT_07}_{4,m,1}$	$\text{INDEX}_{R2_{7,3}} := \text{NOV_07}_{4,m,1}$	$\text{INDEX}_{R2_{8,3}} := \text{DEC_07}_{4,m,1}$
$\text{INDEX}_{R2_{6,4}} := \text{OCT_07}_{5,m,1}$	$\text{INDEX}_{R2_{7,4}} := \text{NOV_07}_{5,m,1}$	$\text{INDEX}_{R2_{8,4}} := \text{DEC_07}_{5,m,1}$
$\text{INDEX}_{R2_{6,5}} := \text{OCT_07}_{6,m,1}$	$\text{INDEX}_{R2_{7,5}} := \text{NOV_07}_{6,m,1}$	$\text{INDEX}_{R2_{8,5}} := \text{DEC_07}_{6,m,1}$
$\text{INDEX}_{R2_{6,6}} := \text{OCT_07}_{7,m,1}$	$\text{INDEX}_{R2_{7,6}} := \text{NOV_07}_{7,m,1}$	$\text{INDEX}_{R2_{8,6}} := \text{DEC_07}_{7,m,1}$
$\text{INDEX}_{R2_{9,0}} := \text{JAN_08}_{1,m,1}$	$\text{INDEX}_{R2_{10,0}} := \text{FEB_08}_{1,m,1}$	$\text{INDEX}_{R2_{11,0}} := \text{MRT_08}_{1,m,1}$
$\text{INDEX}_{R2_{9,1}} := \text{JAN_08}_{2,m,1}$	$\text{INDEX}_{R2_{10,1}} := \text{FEB_08}_{2,m,1}$	$\text{INDEX}_{R2_{11,1}} := \text{MRT_08}_{2,m,1}$
$\text{INDEX}_{R2_{9,2}} := \text{JAN_08}_{3,m,1}$	$\text{INDEX}_{R2_{10,2}} := \text{FEB_08}_{3,m,1}$	$\text{INDEX}_{R2_{11,2}} := \text{MRT_08}_{3,m,1}$
$\text{INDEX}_{R2_{9,3}} := \text{JAN_08}_{4,m,1}$	$\text{INDEX}_{R2_{10,3}} := \text{FEB_08}_{4,m,1}$	$\text{INDEX}_{R2_{11,3}} := \text{MRT_08}_{4,m,1}$
$\text{INDEX}_{R2_{9,4}} := \text{JAN_08}_{5,m,1}$	$\text{INDEX}_{R2_{10,4}} := \text{FEB_08}_{5,m,1}$	$\text{INDEX}_{R2_{11,4}} := \text{MRT_08}_{5,m,1}$
$\text{INDEX}_{R2_{9,5}} := \text{JAN_08}_{6,m,1}$	$\text{INDEX}_{R2_{10,5}} := \text{FEB_08}_{6,m,1}$	$\text{INDEX}_{R2_{11,5}} := \text{MRT_08}_{6,m,1}$
$\text{INDEX}_{R2_{9,6}} := \text{JAN_08}_{7,m,1}$	$\text{INDEX}_{R2_{10,6}} := \text{FEB_08}_{7,m,1}$	$\text{INDEX}_{R2_{11,6}} := \text{MRT_08}_{7,m,1}$
$\text{INDEX}_{R2_{12,0}} := \text{APR_08}_{1,m,1}$	$\text{INDEX}_{R2_{13,0}} := \text{MAY_08}_{1,m,1}$	$\text{INDEX}_{R2_{14,0}} := \text{JUN_08}_{1,m,1}$
$\text{INDEX}_{R2_{12,1}} := \text{APR_08}_{2,m,1}$	$\text{INDEX}_{R2_{13,1}} := \text{MAY_08}_{2,m,1}$	$\text{INDEX}_{R2_{14,1}} := \text{JUN_08}_{2,m,1}$

$INDEX_{R2_{12,2}} := APR_08_{3,m,1}$ $INDEX_{R2_{13,2}} := MAY_08_{3,m,1}$ $INDEX_{R2_{14,2}} := JUN_08_{3,m,1}$
 $INDEX_{R2_{12,3}} := APR_08_{4,m,1}$ $INDEX_{R2_{13,3}} := MAY_08_{4,m,1}$ $INDEX_{R2_{14,3}} := JUN_08_{4,m,1}$
 $INDEX_{R2_{12,4}} := APR_08_{5,m,1}$ $INDEX_{R2_{13,4}} := MAY_08_{5,m,1}$ $INDEX_{R2_{14,4}} := JUN_08_{5,m,1}$
 $INDEX_{R2_{12,5}} := APR_08_{6,m,1}$ $INDEX_{R2_{13,5}} := MAY_08_{6,m,1}$ $INDEX_{R2_{14,5}} := JUN_08_{6,m,1}$
 $INDEX_{R2_{12,6}} := APR_08_{7,m,1}$ $INDEX_{R2_{13,6}} := AUG_08_{7,m,1}$ $INDEX_{R2_{14,6}} := JUN_08_{7,m,1}$

$INDEX_{R2_{15,0}} := JUL_08_{1,m,1}$ $INDEX_{R2_{16,0}} := AUG_08_{1,m,1}$ $INDEX_{R2_{17,0}} := SEP_08_{1,m,1}$
 $INDEX_{R2_{15,1}} := JUL_08_{2,m,1}$ $INDEX_{R2_{16,1}} := AUG_08_{2,m,1}$ $INDEX_{R2_{17,1}} := SEP_08_{2,m,1}$
 $INDEX_{R2_{15,2}} := JUL_08_{3,m,1}$ $INDEX_{R2_{16,2}} := AUG_08_{3,m,1}$ $INDEX_{R2_{17,2}} := SEP_08_{3,m,1}$
 $INDEX_{R2_{15,3}} := JUL_08_{4,m,1}$ $INDEX_{R2_{16,3}} := AUG_08_{4,m,1}$ $INDEX_{R2_{17,3}} := SEP_08_{4,m,1}$
 $INDEX_{R2_{15,4}} := JUL_08_{5,m,1}$ $INDEX_{R2_{16,4}} := AUG_08_{5,m,1}$ $INDEX_{R2_{17,4}} := SEP_08_{5,m,1}$
 $INDEX_{R2_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{R2_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{R2_{17,5}} := SEP_08_{6,m,1}$
 $INDEX_{R2_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{R2_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{R2_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{R2_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{R2_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{R2_{20,0}} := DEC_08_{1,m,1}$
 $INDEX_{R2_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{R2_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{R2_{20,1}} := DEC_08_{2,m,1}$
 $INDEX_{R2_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{R2_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{R2_{20,2}} := DEC_08_{3,m,1}$
 $INDEX_{R2_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{R2_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{R2_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{R2_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{R2_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{R2_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{R2_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{R2_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{R2_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{R2_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{R2_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{R2_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{R2_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{R2_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{R2_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{R2_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{R2_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{R2_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{R2_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{R2_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{R2_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{R2_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{R2_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{R2_{23,3}} := MRT_09_{4,m,1}$
 $INDEX_{R2_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{R2_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{R2_{23,4}} := MRT_09_{5,m,1}$

$INDEX_{R2_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{R2_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{R2_{23,5}} := MRT_09_{6,m,1}$
 $INDEX_{R2_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{R2_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{R2_{23,6}} := MRT_09_{7,m,1}$

 $INDEX_{R2_{24,0}} := APR_09_{1,m,1}$
 $INDEX_{R2_{24,1}} := APR_09_{2,m,1}$
 $INDEX_{R2_{24,2}} := APR_09_{3,m,1}$
 $INDEX_{R2_{24,3}} := APR_09_{4,m,1}$
 $INDEX_{R2_{24,4}} := APR_09_{5,m,1}$
 $INDEX_{R2_{24,5}} := APR_09_{6,m,1}$
 $INDEX_{R2_{24,6}} := APR_09_{7,m,1}$

Index Red - Threshold THD > 3

$m := 14$

$INDEX_{R3_{0,0}} := APR_07_{1,m,1}$ $INDEX_{R3_{1,0}} := MAY_07_{1,m,1}$ $INDEX_{R3_{2,0}} := JUN_07_{1,m,1}$
 $INDEX_{R3_{0,1}} := APR_07_{2,m,1}$ $INDEX_{R3_{1,1}} := MAY_07_{2,m,1}$ $INDEX_{R3_{2,1}} := JUN_07_{2,m,1}$
 $INDEX_{R3_{0,2}} := APR_07_{3,m,1}$ $INDEX_{R3_{1,2}} := MAY_07_{3,m,1}$ $INDEX_{R3_{2,2}} := JUN_07_{3,m,1}$
 $INDEX_{R3_{0,3}} := APR_07_{4,m,1}$ $INDEX_{R3_{1,3}} := MAY_07_{4,m,1}$ $INDEX_{R3_{2,3}} := JUN_07_{4,m,1}$
 $INDEX_{R3_{0,4}} := APR_07_{5,m,1}$ $INDEX_{R3_{1,4}} := MAY_07_{5,m,1}$ $INDEX_{R3_{2,4}} := JUN_07_{5,m,1}$
 $INDEX_{R3_{0,5}} := APR_07_{6,m,1}$ $INDEX_{R3_{1,5}} := MAY_07_{6,m,1}$ $INDEX_{R3_{2,5}} := JUN_07_{6,m,1}$
 $INDEX_{R3_{0,6}} := APR_07_{7,m,1}$ $INDEX_{R3_{1,6}} := AUG_07_{7,m,1}$ $INDEX_{R3_{2,6}} := JUN_07_{7,m,1}$

 $INDEX_{R3_{3,0}} := JUL_07_{1,m,1}$ $INDEX_{R3_{4,0}} := AUG_07_{1,m,1}$ $INDEX_{R3_{5,0}} := SEP_07_{1,m,1}$
 $INDEX_{R3_{3,1}} := JUL_07_{2,m,1}$ $INDEX_{R3_{4,1}} := AUG_07_{2,m,1}$ $INDEX_{R3_{5,1}} := SEP_07_{2,m,1}$
 $INDEX_{R3_{3,2}} := JUL_07_{3,m,1}$ $INDEX_{R3_{4,2}} := AUG_07_{3,m,1}$ $INDEX_{R3_{5,2}} := SEP_07_{3,m,1}$
 $INDEX_{R3_{3,3}} := JUL_07_{4,m,1}$ $INDEX_{R3_{4,3}} := AUG_07_{4,m,1}$ $INDEX_{R3_{5,3}} := SEP_07_{4,m,1}$
 $INDEX_{R3_{3,4}} := JUL_07_{5,m,1}$ $INDEX_{R3_{4,4}} := AUG_07_{5,m,1}$ $INDEX_{R3_{5,4}} := SEP_07_{5,m,1}$
 $INDEX_{R3_{3,5}} := JUL_07_{6,m,1}$ $INDEX_{R3_{4,5}} := AUG_07_{6,m,1}$ $INDEX_{R3_{5,5}} := SEP_07_{6,m,1}$
 $INDEX_{R3_{3,6}} := JUL_07_{7,m,1}$ $INDEX_{R3_{4,6}} := AUG_07_{7,m,1}$ $INDEX_{R3_{5,6}} := SEP_07_{7,m,1}$

$INDEX_{R3_{6,0}} := OCT_07_{1,m,1}$ $INDEX_{R3_{7,0}} := NOV_07_{1,m,1}$ $INDEX_{R3_{8,0}} := DEC_07_{1,m,1}$
 $INDEX_{R3_{6,1}} := OCT_07_{2,m,1}$ $INDEX_{R3_{7,1}} := NOV_07_{2,m,1}$ $INDEX_{R3_{8,1}} := DEC_07_{2,m,1}$
 $INDEX_{R3_{6,2}} := OCT_07_{3,m,1}$ $INDEX_{R3_{7,2}} := NOV_07_{3,m,1}$ $INDEX_{R3_{8,2}} := DEC_07_{3,m,1}$
 $INDEX_{R3_{6,3}} := OCT_07_{4,m,1}$ $INDEX_{R3_{7,3}} := NOV_07_{4,m,1}$ $INDEX_{R3_{8,3}} := DEC_07_{4,m,1}$
 $INDEX_{R3_{6,4}} := OCT_07_{5,m,1}$ $INDEX_{R3_{7,4}} := NOV_07_{5,m,1}$ $INDEX_{R3_{8,4}} := DEC_07_{5,m,1}$
 $INDEX_{R3_{6,5}} := OCT_07_{6,m,1}$ $INDEX_{R3_{7,5}} := NOV_07_{6,m,1}$ $INDEX_{R3_{8,5}} := DEC_07_{6,m,1}$
 $INDEX_{R3_{6,6}} := OCT_07_{7,m,1}$ $INDEX_{R3_{7,6}} := NOV_07_{7,m,1}$ $INDEX_{R3_{8,6}} := DEC_07_{7,m,1}$

$INDEX_{R3_{9,0}} := JAN_08_{1,m,1}$ $INDEX_{R3_{10,0}} := FEB_08_{1,m,1}$ $INDEX_{R3_{11,0}} := MRT_08_{1,m,1}$
 $INDEX_{R3_{9,1}} := JAN_08_{2,m,1}$ $INDEX_{R3_{10,1}} := FEB_08_{2,m,1}$ $INDEX_{R3_{11,1}} := MRT_08_{2,m,1}$
 $INDEX_{R3_{9,2}} := JAN_08_{3,m,1}$ $INDEX_{R3_{10,2}} := FEB_08_{3,m,1}$ $INDEX_{R3_{11,2}} := MRT_08_{3,m,1}$
 $INDEX_{R3_{9,3}} := JAN_08_{4,m,1}$ $INDEX_{R3_{10,3}} := FEB_08_{4,m,1}$ $INDEX_{R3_{11,3}} := MRT_08_{4,m,1}$
 $INDEX_{R3_{9,4}} := JAN_08_{5,m,1}$ $INDEX_{R3_{10,4}} := FEB_08_{5,m,1}$ $INDEX_{R3_{11,4}} := MRT_08_{5,m,1}$
 $INDEX_{R3_{9,5}} := JAN_08_{6,m,1}$ $INDEX_{R3_{10,5}} := FEB_08_{6,m,1}$ $INDEX_{R3_{11,5}} := MRT_08_{6,m,1}$
 $INDEX_{R3_{9,6}} := JAN_08_{7,m,1}$ $INDEX_{R3_{10,6}} := FEB_08_{7,m,1}$ $INDEX_{R3_{11,6}} := MRT_08_{7,m,1}$

$INDEX_{R3_{12,0}} := APR_08_{1,m,1}$ $INDEX_{R3_{13,0}} := MAY_08_{1,m,1}$ $INDEX_{R3_{14,0}} := JUN_08_{1,m,1}$
 $INDEX_{R3_{12,1}} := APR_08_{2,m,1}$ $INDEX_{R3_{13,1}} := MAY_08_{2,m,1}$ $INDEX_{R3_{14,1}} := JUN_08_{2,m,1}$
 $INDEX_{R3_{12,2}} := APR_08_{3,m,1}$ $INDEX_{R3_{13,2}} := MAY_08_{3,m,1}$ $INDEX_{R3_{14,2}} := JUN_08_{3,m,1}$
 $INDEX_{R3_{12,3}} := APR_08_{4,m,1}$ $INDEX_{R3_{13,3}} := MAY_08_{4,m,1}$ $INDEX_{R3_{14,3}} := JUN_08_{4,m,1}$
 $INDEX_{R3_{12,4}} := APR_08_{5,m,1}$ $INDEX_{R3_{13,4}} := MAY_08_{5,m,1}$ $INDEX_{R3_{14,4}} := JUN_08_{5,m,1}$
 $INDEX_{R3_{12,5}} := APR_08_{6,m,1}$ $INDEX_{R3_{13,5}} := MAY_08_{6,m,1}$ $INDEX_{R3_{14,5}} := JUN_08_{6,m,1}$
 $INDEX_{R3_{12,6}} := APR_08_{7,m,1}$ $INDEX_{R3_{13,6}} := AUG_08_{7,m,1}$ $INDEX_{R3_{14,6}} := JUN_08_{7,m,1}$

$INDEX_{R3_{15,0}} := JUL_08_{1,m,1}$ $INDEX_{R3_{16,0}} := AUG_08_{1,m,1}$ $INDEX_{R3_{17,0}} := SEP_08_{1,m,1}$
 $INDEX_{R3_{15,1}} := JUL_08_{2,m,1}$ $INDEX_{R3_{16,1}} := AUG_08_{2,m,1}$ $INDEX_{R3_{17,1}} := SEP_08_{2,m,1}$
 $INDEX_{R3_{15,2}} := JUL_08_{3,m,1}$ $INDEX_{R3_{16,2}} := AUG_08_{3,m,1}$ $INDEX_{R3_{17,2}} := SEP_08_{3,m,1}$
 $INDEX_{R3_{15,3}} := JUL_08_{4,m,1}$ $INDEX_{R3_{16,3}} := AUG_08_{4,m,1}$ $INDEX_{R3_{17,3}} := SEP_08_{4,m,1}$

$INDEX_{R3_{15,4}} := JUL_08_{5,m,1}$ $INDEX_{R3_{16,4}} := AUG_08_{5,m,1}$ $INDEX_{R3_{17,4}} := SEP_08_{5,m,1}$

$INDEX_{R3_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{R3_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{R3_{17,5}} := SEP_08_{6,m,1}$

$INDEX_{R3_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{R3_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{R3_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{R3_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{R3_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{R3_{20,0}} := DEC_08_{1,m,1}$

$INDEX_{R3_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{R3_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{R3_{20,1}} := DEC_08_{2,m,1}$

$INDEX_{R3_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{R3_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{R3_{20,2}} := DEC_08_{3,m,1}$

$INDEX_{R3_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{R3_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{R3_{20,3}} := DEC_08_{4,m,1}$

$INDEX_{R3_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{R3_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{R3_{20,4}} := DEC_08_{5,m,1}$

$INDEX_{R3_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{R3_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{R3_{20,5}} := DEC_08_{6,m,1}$

$INDEX_{R3_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{R3_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{R3_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{R3_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{R3_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{R3_{23,0}} := MRT_09_{1,m,1}$

$INDEX_{R3_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{R3_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{R3_{23,1}} := MRT_09_{2,m,1}$

$INDEX_{R3_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{R3_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{R3_{23,2}} := MRT_09_{3,m,1}$

$INDEX_{R3_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{R3_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{R3_{23,3}} := MRT_09_{4,m,1}$

$INDEX_{R3_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{R3_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{R3_{23,4}} := MRT_09_{5,m,1}$

$INDEX_{R3_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{R3_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{R3_{23,5}} := MRT_09_{6,m,1}$

$INDEX_{R3_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{R3_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{R3_{23,6}} := MRT_09_{7,m,1}$

$INDEX_{R3_{24,0}} := APR_09_{1,m,1}$

$INDEX_{R3_{24,1}} := APR_09_{2,m,1}$

$INDEX_{R3_{24,2}} := APR_09_{3,m,1}$

$INDEX_{R3_{24,3}} := APR_09_{4,m,1}$

$INDEX_{R3_{24,4}} := APR_09_{5,m,1}$

$INDEX_{R3_{24,5}} := APR_09_{6,m,1}$

$INDEX_{R3_{24,6}} := APR_09_{7,m,1}$

Index Red - Threshold THD > 4

m := 15

INDEX _{R4} _{0,0} := APR_07 ₁ _{m,1}	INDEX _{R4} _{1,0} := MAY_07 ₁ _{m,1}	INDEX _{R4} _{2,0} := JUN_07 ₁ _{m,1}
INDEX _{R4} _{0,1} := APR_07 ₂ _{m,1}	INDEX _{R4} _{1,1} := MAY_07 ₂ _{m,1}	INDEX _{R4} _{2,1} := JUN_07 ₂ _{m,1}
INDEX _{R4} _{0,2} := APR_07 ₃ _{m,1}	INDEX _{R4} _{1,2} := MAY_07 ₃ _{m,1}	INDEX _{R4} _{2,2} := JUN_07 ₃ _{m,1}
INDEX _{R4} _{0,3} := APR_07 ₄ _{m,1}	INDEX _{R4} _{1,3} := MAY_07 ₄ _{m,1}	INDEX _{R4} _{2,3} := JUN_07 ₄ _{m,1}
INDEX _{R4} _{0,4} := APR_07 ₅ _{m,1}	INDEX _{R4} _{1,4} := MAY_07 ₅ _{m,1}	INDEX _{R4} _{2,4} := JUN_07 ₅ _{m,1}
INDEX _{R4} _{0,5} := APR_07 ₆ _{m,1}	INDEX _{R4} _{1,5} := MAY_07 ₆ _{m,1}	INDEX _{R4} _{2,5} := JUN_07 ₆ _{m,1}
INDEX _{R4} _{0,6} := APR_07 ₇ _{m,1}	INDEX _{R4} _{1,6} := AUG_07 ₇ _{m,1}	INDEX _{R4} _{2,6} := JUN_07 ₇ _{m,1}
INDEX _{R4} _{3,0} := JUL_07 ₁ _{m,1}	INDEX _{R4} _{4,0} := AUG_07 ₁ _{m,1}	INDEX _{R4} _{5,0} := SEP_07 ₁ _{m,1}
INDEX _{R4} _{3,1} := JUL_07 ₂ _{m,1}	INDEX _{R4} _{4,1} := AUG_07 ₂ _{m,1}	INDEX _{R4} _{5,1} := SEP_07 ₂ _{m,1}
INDEX _{R4} _{3,2} := JUL_07 ₃ _{m,1}	INDEX _{R4} _{4,2} := AUG_07 ₃ _{m,1}	INDEX _{R4} _{5,2} := SEP_07 ₃ _{m,1}
INDEX _{R4} _{3,3} := JUL_07 ₄ _{m,1}	INDEX _{R4} _{4,3} := AUG_07 ₄ _{m,1}	INDEX _{R4} _{5,3} := SEP_07 ₄ _{m,1}
INDEX _{R4} _{3,4} := JUL_07 ₅ _{m,1}	INDEX _{R4} _{4,4} := AUG_07 ₅ _{m,1}	INDEX _{R4} _{5,4} := SEP_07 ₅ _{m,1}
INDEX _{R4} _{3,5} := JUL_07 ₆ _{m,1}	INDEX _{R4} _{4,5} := AUG_07 ₆ _{m,1}	INDEX _{R4} _{5,5} := SEP_07 ₆ _{m,1}
INDEX _{R4} _{3,6} := JUL_07 ₇ _{m,1}	INDEX _{R4} _{4,6} := AUG_07 ₇ _{m,1}	INDEX _{R4} _{5,6} := SEP_07 ₇ _{m,1}
INDEX _{R4} _{6,0} := OCT_07 ₁ _{m,1}	INDEX _{R4} _{7,0} := NOV_07 ₁ _{m,1}	INDEX _{R4} _{8,0} := DEC_07 ₁ _{m,1}
INDEX _{R4} _{6,1} := OCT_07 ₂ _{m,1}	INDEX _{R4} _{7,1} := NOV_07 ₂ _{m,1}	INDEX _{R4} _{8,1} := DEC_07 ₂ _{m,1}
INDEX _{R4} _{6,2} := OCT_07 ₃ _{m,1}	INDEX _{R4} _{7,2} := NOV_07 ₃ _{m,1}	INDEX _{R4} _{8,2} := DEC_07 ₃ _{m,1}
INDEX _{R4} _{6,3} := OCT_07 ₄ _{m,1}	INDEX _{R4} _{7,3} := NOV_07 ₄ _{m,1}	INDEX _{R4} _{8,3} := DEC_07 ₄ _{m,1}
INDEX _{R4} _{6,4} := OCT_07 ₅ _{m,1}	INDEX _{R4} _{7,4} := NOV_07 ₅ _{m,1}	INDEX _{R4} _{8,4} := DEC_07 ₅ _{m,1}
INDEX _{R4} _{6,5} := OCT_07 ₆ _{m,1}	INDEX _{R4} _{7,5} := NOV_07 ₆ _{m,1}	INDEX _{R4} _{8,5} := DEC_07 ₆ _{m,1}
INDEX _{R4} _{6,6} := OCT_07 ₇ _{m,1}	INDEX _{R4} _{7,6} := NOV_07 ₇ _{m,1}	INDEX _{R4} _{8,6} := DEC_07 ₇ _{m,1}
INDEX _{R4} _{9,0} := JAN_08 ₁ _{m,1}	INDEX _{R4} _{10,0} := FEB_08 ₁ _{m,1}	INDEX _{R4} _{11,0} := MRT_08 ₁ _{m,1}
INDEX _{R4} _{9,1} := JAN_08 ₂ _{m,1}	INDEX _{R4} _{10,1} := FEB_08 ₂ _{m,1}	INDEX _{R4} _{11,1} := MRT_08 ₂ _{m,1}
INDEX _{R4} _{9,2} := JAN_08 ₃ _{m,1}	INDEX _{R4} _{10,2} := FEB_08 ₃ _{m,1}	INDEX _{R4} _{11,2} := MRT_08 ₃ _{m,1}
INDEX _{R4} _{9,3} := JAN_08 ₄ _{m,1}	INDEX _{R4} _{10,3} := FEB_08 ₄ _{m,1}	INDEX _{R4} _{11,3} := MRT_08 ₄ _{m,1}

$INDEX_{R4_{9,4}} := JAN_08_{5,m,1}$ $INDEX_{R4_{10,4}} := FEB_08_{5,m,1}$ $INDEX_{R4_{11,4}} := MRT_08_{5,m,1}$
 $INDEX_{R4_{9,5}} := JAN_08_{6,m,1}$ $INDEX_{R4_{10,5}} := FEB_08_{6,m,1}$ $INDEX_{R4_{11,5}} := MRT_08_{6,m,1}$
 $INDEX_{R4_{9,6}} := JAN_08_{7,m,1}$ $INDEX_{R4_{10,6}} := FEB_08_{7,m,1}$ $INDEX_{R4_{11,6}} := MRT_08_{7,m,1}$

$INDEX_{R4_{12,0}} := APR_08_{1,m,1}$ $INDEX_{R4_{13,0}} := MAY_08_{1,m,1}$ $INDEX_{R4_{14,0}} := JUN_08_{1,m,1}$
 $INDEX_{R4_{12,1}} := APR_08_{2,m,1}$ $INDEX_{R4_{13,1}} := MAY_08_{2,m,1}$ $INDEX_{R4_{14,1}} := JUN_08_{2,m,1}$
 $INDEX_{R4_{12,2}} := APR_08_{3,m,1}$ $INDEX_{R4_{13,2}} := MAY_08_{3,m,1}$ $INDEX_{R4_{14,2}} := JUN_08_{3,m,1}$
 $INDEX_{R4_{12,3}} := APR_08_{4,m,1}$ $INDEX_{R4_{13,3}} := MAY_08_{4,m,1}$ $INDEX_{R4_{14,3}} := JUN_08_{4,m,1}$
 $INDEX_{R4_{12,4}} := APR_08_{5,m,1}$ $INDEX_{R4_{13,4}} := MAY_08_{5,m,1}$ $INDEX_{R4_{14,4}} := JUN_08_{5,m,1}$
 $INDEX_{R4_{12,5}} := APR_08_{6,m,1}$ $INDEX_{R4_{13,5}} := MAY_08_{6,m,1}$ $INDEX_{R4_{14,5}} := JUN_08_{6,m,1}$
 $INDEX_{R4_{12,6}} := APR_08_{7,m,1}$ $INDEX_{R4_{13,6}} := AUG_08_{7,m,1}$ $INDEX_{R4_{14,6}} := JUN_08_{7,m,1}$

$INDEX_{R4_{15,0}} := JUL_08_{1,m,1}$ $INDEX_{R4_{16,0}} := AUG_08_{1,m,1}$ $INDEX_{R4_{17,0}} := SEP_08_{1,m,1}$
 $INDEX_{R4_{15,1}} := JUL_08_{2,m,1}$ $INDEX_{R4_{16,1}} := AUG_08_{2,m,1}$ $INDEX_{R4_{17,1}} := SEP_08_{2,m,1}$
 $INDEX_{R4_{15,2}} := JUL_08_{3,m,1}$ $INDEX_{R4_{16,2}} := AUG_08_{3,m,1}$ $INDEX_{R4_{17,2}} := SEP_08_{3,m,1}$
 $INDEX_{R4_{15,3}} := JUL_08_{4,m,1}$ $INDEX_{R4_{16,3}} := AUG_08_{4,m,1}$ $INDEX_{R4_{17,3}} := SEP_08_{4,m,1}$
 $INDEX_{R4_{15,4}} := JUL_08_{5,m,1}$ $INDEX_{R4_{16,4}} := AUG_08_{5,m,1}$ $INDEX_{R4_{17,4}} := SEP_08_{5,m,1}$
 $INDEX_{R4_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{R4_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{R4_{17,5}} := SEP_08_{6,m,1}$
 $INDEX_{R4_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{R4_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{R4_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{R4_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{R4_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{R4_{20,0}} := DEC_08_{1,m,1}$
 $INDEX_{R4_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{R4_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{R4_{20,1}} := DEC_08_{2,m,1}$
 $INDEX_{R4_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{R4_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{R4_{20,2}} := DEC_08_{3,m,1}$
 $INDEX_{R4_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{R4_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{R4_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{R4_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{R4_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{R4_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{R4_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{R4_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{R4_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{R4_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{R4_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{R4_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{R4_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{R4_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{R4_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{R4_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{R4_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{R4_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{R4_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{R4_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{R4_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{R4_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{R4_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{R4_{23,3}} := MRT_09_{4,m,1}$
 $INDEX_{R4_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{R4_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{R4_{23,4}} := MRT_09_{5,m,1}$
 $INDEX_{R4_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{R4_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{R4_{23,5}} := MRT_09_{6,m,1}$
 $INDEX_{R4_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{R4_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{R4_{23,6}} := MRT_09_{7,m,1}$

$INDEX_{R4_{24,0}} := APR_09_{1,m,1}$

$INDEX_{R4_{24,1}} := APR_09_{2,m,1}$

$INDEX_{R4_{24,2}} := APR_09_{3,m,1}$

$INDEX_{R4_{24,3}} := APR_09_{4,m,1}$

$INDEX_{R4_{24,4}} := APR_09_{5,m,1}$

$INDEX_{R4_{24,5}} := APR_09_{6,m,1}$

$INDEX_{R4_{24,6}} := APR_09_{7,m,1}$

Index WHITE - Threshold THD > 1

$m := 16$

$INDEX_{W1_{0,0}} := APR_07_{1,m,1}$ $INDEX_{W1_{1,0}} := MAY_07_{1,m,1}$ $INDEX_{W1_{2,0}} := JUN_07_{1,m,1}$
 $INDEX_{W1_{0,1}} := APR_07_{2,m,1}$ $INDEX_{W1_{1,1}} := MAY_07_{2,m,1}$ $INDEX_{W1_{2,1}} := JUN_07_{2,m,1}$
 $INDEX_{W1_{0,2}} := APR_07_{3,m,1}$ $INDEX_{W1_{1,2}} := MAY_07_{3,m,1}$ $INDEX_{W1_{2,2}} := JUN_07_{3,m,1}$
 $INDEX_{W1_{0,3}} := APR_07_{4,m,1}$ $INDEX_{W1_{1,3}} := MAY_07_{4,m,1}$ $INDEX_{W1_{2,3}} := JUN_07_{4,m,1}$
 $INDEX_{W1_{0,4}} := APR_07_{5,m,1}$ $INDEX_{W1_{1,4}} := MAY_07_{5,m,1}$ $INDEX_{W1_{2,4}} := JUN_07_{5,m,1}$
 $INDEX_{W1_{0,5}} := APR_07_{6,m,1}$ $INDEX_{W1_{1,5}} := MAY_07_{6,m,1}$ $INDEX_{W1_{2,5}} := JUN_07_{6,m,1}$
 $INDEX_{W1_{0,6}} := APR_07_{7,m,1}$ $INDEX_{W1_{1,6}} := AUG_07_{7,m,1}$ $INDEX_{W1_{2,6}} := JUN_07_{7,m,1}$

$INDEX_{W1_{3,0}} := JUL_07_{1,m,1}$ $INDEX_{W1_{4,0}} := AUG_07_{1,m,1}$ $INDEX_{W1_{5,0}} := SEP_07_{1,m,1}$
 $INDEX_{W1_{3,1}} := JUL_07_{2,m,1}$ $INDEX_{W1_{4,1}} := AUG_07_{2,m,1}$ $INDEX_{W1_{5,1}} := SEP_07_{2,m,1}$
 $INDEX_{W1_{3,2}} := JUL_07_{3,m,1}$ $INDEX_{W1_{4,2}} := AUG_07_{3,m,1}$ $INDEX_{W1_{5,2}} := SEP_07_{3,m,1}$

$INDEX_{W1_{3,3}} := JUL_07_{4,m,1}$ $INDEX_{W1_{4,3}} := AUG_07_{4,m,1}$ $INDEX_{W1_{5,3}} := SEP_07_{4,m,1}$
 $INDEX_{W1_{3,4}} := JUL_07_{5,m,1}$ $INDEX_{W1_{4,4}} := AUG_07_{5,m,1}$ $INDEX_{W1_{5,4}} := SEP_07_{5,m,1}$
 $INDEX_{W1_{3,5}} := JUL_07_{6,m,1}$ $INDEX_{W1_{4,5}} := AUG_07_{6,m,1}$ $INDEX_{W1_{5,5}} := SEP_07_{6,m,1}$
 $INDEX_{W1_{3,6}} := JUL_07_{7,m,1}$ $INDEX_{W1_{4,6}} := AUG_07_{7,m,1}$ $INDEX_{W1_{5,6}} := SEP_07_{7,m,1}$

$INDEX_{W1_{6,0}} := OCT_07_{1,m,1}$ $INDEX_{W1_{7,0}} := NOV_07_{1,m,1}$ $INDEX_{W1_{8,0}} := DEC_07_{1,m,1}$
 $INDEX_{W1_{6,1}} := OCT_07_{2,m,1}$ $INDEX_{W1_{7,1}} := NOV_07_{2,m,1}$ $INDEX_{W1_{8,1}} := DEC_07_{2,m,1}$
 $INDEX_{W1_{6,2}} := OCT_07_{3,m,1}$ $INDEX_{W1_{7,2}} := NOV_07_{3,m,1}$ $INDEX_{W1_{8,2}} := DEC_07_{3,m,1}$
 $INDEX_{W1_{6,3}} := OCT_07_{4,m,1}$ $INDEX_{W1_{7,3}} := NOV_07_{4,m,1}$ $INDEX_{W1_{8,3}} := DEC_07_{4,m,1}$
 $INDEX_{W1_{6,4}} := OCT_07_{5,m,1}$ $INDEX_{W1_{7,4}} := NOV_07_{5,m,1}$ $INDEX_{W1_{8,4}} := DEC_07_{5,m,1}$
 $INDEX_{W1_{6,5}} := OCT_07_{6,m,1}$ $INDEX_{W1_{7,5}} := NOV_07_{6,m,1}$ $INDEX_{W1_{8,5}} := DEC_07_{6,m,1}$
 $INDEX_{W1_{6,6}} := OCT_07_{7,m,1}$ $INDEX_{W1_{7,6}} := NOV_07_{7,m,1}$ $INDEX_{W1_{8,6}} := DEC_07_{7,m,1}$

$INDEX_{W1_{9,0}} := JAN_08_{1,m,1}$ $INDEX_{W1_{10,0}} := FEB_08_{1,m,1}$ $INDEX_{W1_{11,0}} := MRT_08_{1,m,1}$
 $INDEX_{W1_{9,1}} := JAN_08_{2,m,1}$ $INDEX_{W1_{10,1}} := FEB_08_{2,m,1}$ $INDEX_{W1_{11,1}} := MRT_08_{2,m,1}$
 $INDEX_{W1_{9,2}} := JAN_08_{3,m,1}$ $INDEX_{W1_{10,2}} := FEB_08_{3,m,1}$ $INDEX_{W1_{11,2}} := MRT_08_{3,m,1}$
 $INDEX_{W1_{9,3}} := JAN_08_{4,m,1}$ $INDEX_{W1_{10,3}} := FEB_08_{4,m,1}$ $INDEX_{W1_{11,3}} := MRT_08_{4,m,1}$
 $INDEX_{W1_{9,4}} := JAN_08_{5,m,1}$ $INDEX_{W1_{10,4}} := FEB_08_{5,m,1}$ $INDEX_{W1_{11,4}} := MRT_08_{5,m,1}$
 $INDEX_{W1_{9,5}} := JAN_08_{6,m,1}$ $INDEX_{W1_{10,5}} := FEB_08_{6,m,1}$ $INDEX_{W1_{11,5}} := MRT_08_{6,m,1}$
 $INDEX_{W1_{9,6}} := JAN_08_{7,m,1}$ $INDEX_{W1_{10,6}} := FEB_08_{7,m,1}$ $INDEX_{W1_{11,6}} := MRT_08_{7,m,1}$

$INDEX_{W1_{12,0}} := APR_08_{1,m,1}$ $INDEX_{W1_{13,0}} := MAY_08_{1,m,1}$ $INDEX_{W1_{14,0}} := JUN_08_{1,m,1}$
 $INDEX_{W1_{12,1}} := APR_08_{2,m,1}$ $INDEX_{W1_{13,1}} := MAY_08_{2,m,1}$ $INDEX_{W1_{14,1}} := JUN_08_{2,m,1}$
 $INDEX_{W1_{12,2}} := APR_08_{3,m,1}$ $INDEX_{W1_{13,2}} := MAY_08_{3,m,1}$ $INDEX_{W1_{14,2}} := JUN_08_{3,m,1}$
 $INDEX_{W1_{12,3}} := APR_08_{4,m,1}$ $INDEX_{W1_{13,3}} := MAY_08_{4,m,1}$ $INDEX_{W1_{14,3}} := JUN_08_{4,m,1}$
 $INDEX_{W1_{12,4}} := APR_08_{5,m,1}$ $INDEX_{W1_{13,4}} := MAY_08_{5,m,1}$ $INDEX_{W1_{14,4}} := JUN_08_{5,m,1}$
 $INDEX_{W1_{12,5}} := APR_08_{6,m,1}$ $INDEX_{W1_{13,5}} := MAY_08_{6,m,1}$ $INDEX_{W1_{14,5}} := JUN_08_{6,m,1}$
 $INDEX_{W1_{12,6}} := APR_08_{7,m,1}$ $INDEX_{W1_{13,6}} := AUG_08_{7,m,1}$ $INDEX_{W1_{14,6}} := JUN_08_{7,m,1}$

$INDEX_{W1_{15,0}} := JUL_08_{1,m,1}$ $INDEX_{W1_{16,0}} := AUG_08_{1,m,1}$ $INDEX_{W1_{17,0}} := SEP_08_{1,m,1}$
 $INDEX_{W1_{15,1}} := JUL_08_{2,m,1}$ $INDEX_{W1_{16,1}} := AUG_08_{2,m,1}$ $INDEX_{W1_{17,1}} := SEP_08_{2,m,1}$
 $INDEX_{W1_{15,2}} := JUL_08_{3,m,1}$ $INDEX_{W1_{16,2}} := AUG_08_{3,m,1}$ $INDEX_{W1_{17,2}} := SEP_08_{3,m,1}$
 $INDEX_{W1_{15,3}} := JUL_08_{4,m,1}$ $INDEX_{W1_{16,3}} := AUG_08_{4,m,1}$ $INDEX_{W1_{17,3}} := SEP_08_{4,m,1}$
 $INDEX_{W1_{15,4}} := JUL_08_{5,m,1}$ $INDEX_{W1_{16,4}} := AUG_08_{5,m,1}$ $INDEX_{W1_{17,4}} := SEP_08_{5,m,1}$
 $INDEX_{W1_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{W1_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{W1_{17,5}} := SEP_08_{6,m,1}$
 $INDEX_{W1_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{W1_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{W1_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{W1_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{W1_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{W1_{20,0}} := DEC_08_{1,m,1}$
 $INDEX_{W1_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{W1_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{W1_{20,1}} := DEC_08_{2,m,1}$
 $INDEX_{W1_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{W1_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{W1_{20,2}} := DEC_08_{3,m,1}$
 $INDEX_{W1_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{W1_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{W1_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{W1_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{W1_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{W1_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{W1_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{W1_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{W1_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{W1_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{W1_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{W1_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{W1_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{W1_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{W1_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{W1_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{W1_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{W1_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{W1_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{W1_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{W1_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{W1_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{W1_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{W1_{23,3}} := MRT_09_{4,m,1}$
 $INDEX_{W1_{21,4}} := JAN_09_{5,m,1}$ $INDEX_{W1_{22,4}} := FEB_09_{5,m,1}$ $INDEX_{W1_{23,4}} := MRT_09_{5,m,1}$
 $INDEX_{W1_{21,5}} := JAN_09_{6,m,1}$ $INDEX_{W1_{22,5}} := FEB_09_{6,m,1}$ $INDEX_{W1_{23,5}} := MRT_09_{6,m,1}$
 $INDEX_{W1_{21,6}} := JAN_09_{7,m,1}$ $INDEX_{W1_{22,6}} := FEB_09_{7,m,1}$ $INDEX_{W1_{23,6}} := MRT_09_{7,m,1}$

$INDEX_{W1_{24,0}} := APR_09_{1,m,1}$

$INDEX_{W1_{24,1}} := APR_09_{2,m,1}$

$INDEX_{W1_{24,2}} := APR_09_{3,m,1}$

$INDEX_{W1_{24,3}} := APR_09_{4,m,1}$

$$\text{INDEX}_{W1_{24,4}} := \text{APR}_{09_{5_{m,1}}}$$

$$\text{INDEX}_{W1_{24,5}} := \text{APR}_{09_{6_{m,1}}}$$

$$\text{INDEX}_{W1_{24,6}} := \text{APR}_{09_{7_{m,1}}}$$

Index WHITE - Threshold THD > 2

$$m := 17$$

$$\text{INDEX}_{W2_{0,0}} := \text{APR}_{07_{1_{m,1}}} \quad \text{INDEX}_{W2_{1,0}} := \text{MAY}_{07_{1_{m,1}}} \quad \text{INDEX}_{W2_{2,0}} := \text{JUN}_{07_{1_{m,1}}}$$

$$\text{INDEX}_{W2_{0,1}} := \text{APR}_{07_{2_{m,1}}} \quad \text{INDEX}_{W2_{1,1}} := \text{MAY}_{07_{2_{m,1}}} \quad \text{INDEX}_{W2_{2,1}} := \text{JUN}_{07_{2_{m,1}}}$$

$$\text{INDEX}_{W2_{0,2}} := \text{APR}_{07_{3_{m,1}}} \quad \text{INDEX}_{W2_{1,2}} := \text{MAY}_{07_{3_{m,1}}} \quad \text{INDEX}_{W2_{2,2}} := \text{JUN}_{07_{3_{m,1}}}$$

$$\text{INDEX}_{W2_{0,3}} := \text{APR}_{07_{4_{m,1}}} \quad \text{INDEX}_{W2_{1,3}} := \text{MAY}_{07_{4_{m,1}}} \quad \text{INDEX}_{W2_{2,3}} := \text{JUN}_{07_{4_{m,1}}}$$

$$\text{INDEX}_{W2_{0,4}} := \text{APR}_{07_{5_{m,1}}} \quad \text{INDEX}_{W2_{1,4}} := \text{MAY}_{07_{5_{m,1}}} \quad \text{INDEX}_{W2_{2,4}} := \text{JUN}_{07_{5_{m,1}}}$$

$$\text{INDEX}_{W2_{0,5}} := \text{APR}_{07_{6_{m,1}}} \quad \text{INDEX}_{W2_{1,5}} := \text{MAY}_{07_{6_{m,1}}} \quad \text{INDEX}_{W2_{2,5}} := \text{JUN}_{07_{6_{m,1}}}$$

$$\text{INDEX}_{W2_{0,6}} := \text{APR}_{07_{7_{m,1}}} \quad \text{INDEX}_{W2_{1,6}} := \text{AUG}_{07_{7_{m,1}}} \quad \text{INDEX}_{W2_{2,6}} := \text{JUN}_{07_{7_{m,1}}}$$

$$\text{INDEX}_{W2_{3,0}} := \text{JUL}_{07_{1_{m,1}}} \quad \text{INDEX}_{W2_{4,0}} := \text{AUG}_{07_{1_{m,1}}} \quad \text{INDEX}_{W2_{5,0}} := \text{SEP}_{07_{1_{m,1}}}$$

$$\text{INDEX}_{W2_{3,1}} := \text{JUL}_{07_{2_{m,1}}} \quad \text{INDEX}_{W2_{4,1}} := \text{AUG}_{07_{2_{m,1}}} \quad \text{INDEX}_{W2_{5,1}} := \text{SEP}_{07_{2_{m,1}}}$$

$$\text{INDEX}_{W2_{3,2}} := \text{JUL}_{07_{3_{m,1}}} \quad \text{INDEX}_{W2_{4,2}} := \text{AUG}_{07_{3_{m,1}}} \quad \text{INDEX}_{W2_{5,2}} := \text{SEP}_{07_{3_{m,1}}}$$

$$\text{INDEX}_{W2_{3,3}} := \text{JUL}_{07_{4_{m,1}}} \quad \text{INDEX}_{W2_{4,3}} := \text{AUG}_{07_{4_{m,1}}} \quad \text{INDEX}_{W2_{5,3}} := \text{SEP}_{07_{4_{m,1}}}$$

$$\text{INDEX}_{W2_{3,4}} := \text{JUL}_{07_{5_{m,1}}} \quad \text{INDEX}_{W2_{4,4}} := \text{AUG}_{07_{5_{m,1}}} \quad \text{INDEX}_{W2_{5,4}} := \text{SEP}_{07_{5_{m,1}}}$$

$$\text{INDEX}_{W2_{3,5}} := \text{JUL}_{07_{6_{m,1}}} \quad \text{INDEX}_{W2_{4,5}} := \text{AUG}_{07_{6_{m,1}}} \quad \text{INDEX}_{W2_{5,5}} := \text{SEP}_{07_{6_{m,1}}}$$

$$\text{INDEX}_{W2_{3,6}} := \text{JUL}_{07_{7_{m,1}}} \quad \text{INDEX}_{W2_{4,6}} := \text{AUG}_{07_{7_{m,1}}} \quad \text{INDEX}_{W2_{5,6}} := \text{SEP}_{07_{7_{m,1}}}$$

$$\text{INDEX}_{W2_{6,0}} := \text{OCT}_{07_{1_{m,1}}} \quad \text{INDEX}_{W2_{7,0}} := \text{NOV}_{07_{1_{m,1}}} \quad \text{INDEX}_{W2_{8,0}} := \text{DEC}_{07_{1_{m,1}}}$$

$$\text{INDEX}_{W2_{6,1}} := \text{OCT}_{07_{2_{m,1}}} \quad \text{INDEX}_{W2_{7,1}} := \text{NOV}_{07_{2_{m,1}}} \quad \text{INDEX}_{W2_{8,1}} := \text{DEC}_{07_{2_{m,1}}}$$

$$\text{INDEX}_{W2_{6,2}} := \text{OCT}_{07_{3_{m,1}}} \quad \text{INDEX}_{W2_{7,2}} := \text{NOV}_{07_{3_{m,1}}} \quad \text{INDEX}_{W2_{8,2}} := \text{DEC}_{07_{3_{m,1}}}$$

$$\text{INDEX}_{W2_{6,3}} := \text{OCT}_{07_{4_{m,1}}} \quad \text{INDEX}_{W2_{7,3}} := \text{NOV}_{07_{4_{m,1}}} \quad \text{INDEX}_{W2_{8,3}} := \text{DEC}_{07_{4_{m,1}}}$$

$$\text{INDEX}_{W2_{6,4}} := \text{OCT}_{07_{5_{m,1}}} \quad \text{INDEX}_{W2_{7,4}} := \text{NOV}_{07_{5_{m,1}}} \quad \text{INDEX}_{W2_{8,4}} := \text{DEC}_{07_{5_{m,1}}}$$

$$\text{INDEX}_{W2_{6,5}} := \text{OCT}_{07_{6_{m,1}}} \quad \text{INDEX}_{W2_{7,5}} := \text{NOV}_{07_{6_{m,1}}} \quad \text{INDEX}_{W2_{8,5}} := \text{DEC}_{07_{6_{m,1}}}$$

$INDEX_{W2_{6,6}} := OCT_07_{m,1}$ $INDEX_{W2_{7,6}} := NOV_07_{m,1}$ $INDEX_{W2_{8,6}} := DEC_07_{m,1}$

$INDEX_{W2_{9,0}} := JAN_08_{m,1}$ $INDEX_{W2_{10,0}} := FEB_08_{m,1}$ $INDEX_{W2_{11,0}} := MRT_08_{m,1}$

$INDEX_{W2_{9,1}} := JAN_08_{m,2}$ $INDEX_{W2_{10,1}} := FEB_08_{m,2}$ $INDEX_{W2_{11,1}} := MRT_08_{m,2}$

$INDEX_{W2_{9,2}} := JAN_08_{m,3}$ $INDEX_{W2_{10,2}} := FEB_08_{m,3}$ $INDEX_{W2_{11,2}} := MRT_08_{m,3}$

$INDEX_{W2_{9,3}} := JAN_08_{m,4}$ $INDEX_{W2_{10,3}} := FEB_08_{m,4}$ $INDEX_{W2_{11,3}} := MRT_08_{m,4}$

$INDEX_{W2_{9,4}} := JAN_08_{m,5}$ $INDEX_{W2_{10,4}} := FEB_08_{m,5}$ $INDEX_{W2_{11,4}} := MRT_08_{m,5}$

$INDEX_{W2_{9,5}} := JAN_08_{m,6}$ $INDEX_{W2_{10,5}} := FEB_08_{m,6}$ $INDEX_{W2_{11,5}} := MRT_08_{m,6}$

$INDEX_{W2_{9,6}} := JAN_08_{m,7}$ $INDEX_{W2_{10,6}} := FEB_08_{m,7}$ $INDEX_{W2_{11,6}} := MRT_08_{m,7}$

$INDEX_{W2_{12,0}} := APR_08_{m,1}$ $INDEX_{W2_{13,0}} := MAY_08_{m,1}$ $INDEX_{W2_{14,0}} := JUN_08_{m,1}$

$INDEX_{W2_{12,1}} := APR_08_{m,2}$ $INDEX_{W2_{13,1}} := MAY_08_{m,2}$ $INDEX_{W2_{14,1}} := JUN_08_{m,2}$

$INDEX_{W2_{12,2}} := APR_08_{m,3}$ $INDEX_{W2_{13,2}} := MAY_08_{m,3}$ $INDEX_{W2_{14,2}} := JUN_08_{m,3}$

$INDEX_{W2_{12,3}} := APR_08_{m,4}$ $INDEX_{W2_{13,3}} := MAY_08_{m,4}$ $INDEX_{W2_{14,3}} := JUN_08_{m,4}$

$INDEX_{W2_{12,4}} := APR_08_{m,5}$ $INDEX_{W2_{13,4}} := MAY_08_{m,5}$ $INDEX_{W2_{14,4}} := JUN_08_{m,5}$

$INDEX_{W2_{12,5}} := APR_08_{m,6}$ $INDEX_{W2_{13,5}} := MAY_08_{m,6}$ $INDEX_{W2_{14,5}} := JUN_08_{m,6}$

$INDEX_{W2_{12,6}} := APR_08_{m,7}$ $INDEX_{W2_{13,6}} := AUG_08_{m,1}$ $INDEX_{W2_{14,6}} := JUN_08_{m,7}$

$INDEX_{W2_{15,0}} := JUL_08_{m,1}$ $INDEX_{W2_{16,0}} := AUG_08_{m,1}$ $INDEX_{W2_{17,0}} := SEP_08_{m,1}$

$INDEX_{W2_{15,1}} := JUL_08_{m,2}$ $INDEX_{W2_{16,1}} := AUG_08_{m,2}$ $INDEX_{W2_{17,1}} := SEP_08_{m,2}$

$INDEX_{W2_{15,2}} := JUL_08_{m,3}$ $INDEX_{W2_{16,2}} := AUG_08_{m,3}$ $INDEX_{W2_{17,2}} := SEP_08_{m,3}$

$INDEX_{W2_{15,3}} := JUL_08_{m,4}$ $INDEX_{W2_{16,3}} := AUG_08_{m,4}$ $INDEX_{W2_{17,3}} := SEP_08_{m,4}$

$INDEX_{W2_{15,4}} := JUL_08_{m,5}$ $INDEX_{W2_{16,4}} := AUG_08_{m,5}$ $INDEX_{W2_{17,4}} := SEP_08_{m,5}$

$INDEX_{W2_{15,5}} := JUL_08_{m,6}$ $INDEX_{W2_{16,5}} := AUG_08_{m,6}$ $INDEX_{W2_{17,5}} := SEP_08_{m,6}$

$INDEX_{W2_{15,6}} := JUL_08_{m,7}$ $INDEX_{W2_{16,6}} := AUG_08_{m,7}$ $INDEX_{W2_{17,6}} := SEP_08_{m,7}$

$INDEX_{W2_{18,0}} := OCT_08_{m,1}$ $INDEX_{W2_{19,0}} := NOV_08_{m,1}$ $INDEX_{W2_{20,0}} := DEC_08_{m,1}$

$INDEX_{W2_{18,1}} := OCT_08_{m,2}$ $INDEX_{W2_{19,1}} := NOV_08_{m,2}$ $INDEX_{W2_{20,1}} := DEC_08_{m,2}$

$INDEX_{W2,18,2} := OCT_08_{3,m,1}$ $INDEX_{W2,19,2} := NOV_08_{3,m,1}$ $INDEX_{W2,20,2} := DEC_08_{3,m,1}$
 $INDEX_{W2,18,3} := OCT_08_{4,m,1}$ $INDEX_{W2,19,3} := NOV_08_{4,m,1}$ $INDEX_{W2,20,3} := DEC_08_{4,m,1}$
 $INDEX_{W2,18,4} := OCT_08_{5,m,1}$ $INDEX_{W2,19,4} := NOV_08_{5,m,1}$ $INDEX_{W2,20,4} := DEC_08_{5,m,1}$
 $INDEX_{W2,18,5} := OCT_08_{6,m,1}$ $INDEX_{W2,19,5} := NOV_08_{6,m,1}$ $INDEX_{W2,20,5} := DEC_08_{6,m,1}$
 $INDEX_{W2,18,6} := OCT_08_{7,m,1}$ $INDEX_{W2,19,6} := NOV_08_{7,m,1}$ $INDEX_{W2,20,6} := DEC_08_{7,m,1}$

$INDEX_{W2,21,0} := JAN_09_{1,m,1}$ $INDEX_{W2,22,0} := FEB_09_{1,m,1}$ $INDEX_{W2,23,0} := MRT_09_{1,m,1}$
 $INDEX_{W2,21,1} := JAN_09_{2,m,1}$ $INDEX_{W2,22,1} := FEB_09_{2,m,1}$ $INDEX_{W2,23,1} := MRT_09_{2,m,1}$
 $INDEX_{W2,21,2} := JAN_09_{3,m,1}$ $INDEX_{W2,22,2} := FEB_09_{3,m,1}$ $INDEX_{W2,23,2} := MRT_09_{3,m,1}$
 $INDEX_{W2,21,3} := JAN_09_{4,m,1}$ $INDEX_{W2,22,3} := FEB_09_{4,m,1}$ $INDEX_{W2,23,3} := MRT_09_{4,m,1}$
 $INDEX_{W2,21,4} := JAN_09_{5,m,1}$ $INDEX_{W2,22,4} := FEB_09_{5,m,1}$ $INDEX_{W2,23,4} := MRT_09_{5,m,1}$
 $INDEX_{W2,21,5} := JAN_09_{6,m,1}$ $INDEX_{W2,22,5} := FEB_09_{6,m,1}$ $INDEX_{W2,23,5} := MRT_09_{6,m,1}$
 $INDEX_{W2,21,6} := JAN_09_{7,m,1}$ $INDEX_{W2,22,6} := FEB_09_{7,m,1}$ $INDEX_{W2,23,6} := MRT_09_{7,m,1}$

$INDEX_{W2,24,0} := APR_09_{1,m,1}$
 $INDEX_{W2,24,1} := APR_09_{2,m,1}$
 $INDEX_{W2,24,2} := APR_09_{3,m,1}$
 $INDEX_{W2,24,3} := APR_09_{4,m,1}$
 $INDEX_{W2,24,4} := APR_09_{5,m,1}$
 $INDEX_{W2,24,5} := APR_09_{6,m,1}$
 $INDEX_{W2,24,6} := APR_09_{7,m,1}$

Index WHITE - Threshold THD > 3

$m := 18$

$INDEX_{W3,0,0} := APR_07_{1,m,1}$ $INDEX_{W3,1,0} := MAY_07_{1,m,1}$ $INDEX_{W3,2,0} := JUN_07_{1,m,1}$
 $INDEX_{W3,0,1} := APR_07_{2,m,1}$ $INDEX_{W3,1,1} := MAY_07_{2,m,1}$ $INDEX_{W3,2,1} := JUN_07_{2,m,1}$
 $INDEX_{W3,0,2} := APR_07_{3,m,1}$ $INDEX_{W3,1,2} := MAY_07_{3,m,1}$ $INDEX_{W3,2,2} := JUN_07_{3,m,1}$
 $INDEX_{W3,0,3} := APR_07_{4,m,1}$ $INDEX_{W3,1,3} := MAY_07_{4,m,1}$ $INDEX_{W3,2,3} := JUN_07_{4,m,1}$

$INDEX_{W3_{0,4}} := APR_07_{5,m,1}$ $INDEX_{W3_{1,4}} := MAY_07_{5,m,1}$ $INDEX_{W3_{2,4}} := JUN_07_{5,m,1}$
 $INDEX_{W3_{0,5}} := APR_07_{6,m,1}$ $INDEX_{W3_{1,5}} := MAY_07_{6,m,1}$ $INDEX_{W3_{2,5}} := JUN_07_{6,m,1}$
 $INDEX_{W3_{0,6}} := APR_07_{7,m,1}$ $INDEX_{W3_{1,6}} := AUG_07_{7,m,1}$ $INDEX_{W3_{2,6}} := JUN_07_{7,m,1}$

$INDEX_{W3_{3,0}} := JUL_07_{1,m,1}$ $INDEX_{W3_{4,0}} := AUG_07_{1,m,1}$ $INDEX_{W3_{5,0}} := SEP_07_{1,m,1}$
 $INDEX_{W3_{3,1}} := JUL_07_{2,m,1}$ $INDEX_{W3_{4,1}} := AUG_07_{2,m,1}$ $INDEX_{W3_{5,1}} := SEP_07_{2,m,1}$
 $INDEX_{W3_{3,2}} := JUL_07_{3,m,1}$ $INDEX_{W3_{4,2}} := AUG_07_{3,m,1}$ $INDEX_{W3_{5,2}} := SEP_07_{3,m,1}$
 $INDEX_{W3_{3,3}} := JUL_07_{4,m,1}$ $INDEX_{W3_{4,3}} := AUG_07_{4,m,1}$ $INDEX_{W3_{5,3}} := SEP_07_{4,m,1}$
 $INDEX_{W3_{3,4}} := JUL_07_{5,m,1}$ $INDEX_{W3_{4,4}} := AUG_07_{5,m,1}$ $INDEX_{W3_{5,4}} := SEP_07_{5,m,1}$
 $INDEX_{W3_{3,5}} := JUL_07_{6,m,1}$ $INDEX_{W3_{4,5}} := AUG_07_{6,m,1}$ $INDEX_{W3_{5,5}} := SEP_07_{6,m,1}$
 $INDEX_{W3_{3,6}} := JUL_07_{7,m,1}$ $INDEX_{W3_{4,6}} := AUG_07_{7,m,1}$ $INDEX_{W3_{5,6}} := SEP_07_{7,m,1}$

$INDEX_{W3_{6,0}} := OCT_07_{1,m,1}$ $INDEX_{W3_{7,0}} := NOV_07_{1,m,1}$ $INDEX_{W3_{8,0}} := DEC_07_{1,m,1}$
 $INDEX_{W3_{6,1}} := OCT_07_{2,m,1}$ $INDEX_{W3_{7,1}} := NOV_07_{2,m,1}$ $INDEX_{W3_{8,1}} := DEC_07_{2,m,1}$
 $INDEX_{W3_{6,2}} := OCT_07_{3,m,1}$ $INDEX_{W3_{7,2}} := NOV_07_{3,m,1}$ $INDEX_{W3_{8,2}} := DEC_07_{3,m,1}$
 $INDEX_{W3_{6,3}} := OCT_07_{4,m,1}$ $INDEX_{W3_{7,3}} := NOV_07_{4,m,1}$ $INDEX_{W3_{8,3}} := DEC_07_{4,m,1}$
 $INDEX_{W3_{6,4}} := OCT_07_{5,m,1}$ $INDEX_{W3_{7,4}} := NOV_07_{5,m,1}$ $INDEX_{W3_{8,4}} := DEC_07_{5,m,1}$
 $INDEX_{W3_{6,5}} := OCT_07_{6,m,1}$ $INDEX_{W3_{7,5}} := NOV_07_{6,m,1}$ $INDEX_{W3_{8,5}} := DEC_07_{6,m,1}$
 $INDEX_{W3_{6,6}} := OCT_07_{7,m,1}$ $INDEX_{W3_{7,6}} := NOV_07_{7,m,1}$ $INDEX_{W3_{8,6}} := DEC_07_{7,m,1}$

$INDEX_{W3_{9,0}} := JAN_08_{1,m,1}$ $INDEX_{W3_{10,0}} := FEB_08_{1,m,1}$ $INDEX_{W3_{11,0}} := MRT_08_{1,m,1}$
 $INDEX_{W3_{9,1}} := JAN_08_{2,m,1}$ $INDEX_{W3_{10,1}} := FEB_08_{2,m,1}$ $INDEX_{W3_{11,1}} := MRT_08_{2,m,1}$
 $INDEX_{W3_{9,2}} := JAN_08_{3,m,1}$ $INDEX_{W3_{10,2}} := FEB_08_{3,m,1}$ $INDEX_{W3_{11,2}} := MRT_08_{3,m,1}$
 $INDEX_{W3_{9,3}} := JAN_08_{4,m,1}$ $INDEX_{W3_{10,3}} := FEB_08_{4,m,1}$ $INDEX_{W3_{11,3}} := MRT_08_{4,m,1}$
 $INDEX_{W3_{9,4}} := JAN_08_{5,m,1}$ $INDEX_{W3_{10,4}} := FEB_08_{5,m,1}$ $INDEX_{W3_{11,4}} := MRT_08_{5,m,1}$
 $INDEX_{W3_{9,5}} := JAN_08_{6,m,1}$ $INDEX_{W3_{10,5}} := FEB_08_{6,m,1}$ $INDEX_{W3_{11,5}} := MRT_08_{6,m,1}$
 $INDEX_{W3_{9,6}} := JAN_08_{7,m,1}$ $INDEX_{W3_{10,6}} := FEB_08_{7,m,1}$ $INDEX_{W3_{11,6}} := MRT_08_{7,m,1}$

$INDEX_{W3_{12,0}} := APR_08_{1,m,1}$ $INDEX_{W3_{13,0}} := MAY_08_{1,m,1}$ $INDEX_{W3_{14,0}} := JUN_08_{1,m,1}$

$INDEX_{W3_{12,1}} := APR_08_{2,m,1}$ $INDEX_{W3_{13,1}} := MAY_08_{2,m,1}$ $INDEX_{W3_{14,1}} := JUN_08_{2,m,1}$
 $INDEX_{W3_{12,2}} := APR_08_{3,m,1}$ $INDEX_{W3_{13,2}} := MAY_08_{3,m,1}$ $INDEX_{W3_{14,2}} := JUN_08_{3,m,1}$
 $INDEX_{W3_{12,3}} := APR_08_{4,m,1}$ $INDEX_{W3_{13,3}} := MAY_08_{4,m,1}$ $INDEX_{W3_{14,3}} := JUN_08_{4,m,1}$
 $INDEX_{W3_{12,4}} := APR_08_{5,m,1}$ $INDEX_{W3_{13,4}} := MAY_08_{5,m,1}$ $INDEX_{W3_{14,4}} := JUN_08_{5,m,1}$
 $INDEX_{W3_{12,5}} := APR_08_{6,m,1}$ $INDEX_{W3_{13,5}} := MAY_08_{6,m,1}$ $INDEX_{W3_{14,5}} := JUN_08_{6,m,1}$
 $INDEX_{W3_{12,6}} := APR_08_{7,m,1}$ $INDEX_{W3_{13,6}} := AUG_08_{7,m,1}$ $INDEX_{W3_{14,6}} := JUN_08_{7,m,1}$

$INDEX_{W3_{15,0}} := JUL_08_{1,m,1}$ $INDEX_{W3_{16,0}} := AUG_08_{1,m,1}$ $INDEX_{W3_{17,0}} := SEP_08_{1,m,1}$
 $INDEX_{W3_{15,1}} := JUL_08_{2,m,1}$ $INDEX_{W3_{16,1}} := AUG_08_{2,m,1}$ $INDEX_{W3_{17,1}} := SEP_08_{2,m,1}$
 $INDEX_{W3_{15,2}} := JUL_08_{3,m,1}$ $INDEX_{W3_{16,2}} := AUG_08_{3,m,1}$ $INDEX_{W3_{17,2}} := SEP_08_{3,m,1}$
 $INDEX_{W3_{15,3}} := JUL_08_{4,m,1}$ $INDEX_{W3_{16,3}} := AUG_08_{4,m,1}$ $INDEX_{W3_{17,3}} := SEP_08_{4,m,1}$
 $INDEX_{W3_{15,4}} := JUL_08_{5,m,1}$ $INDEX_{W3_{16,4}} := AUG_08_{5,m,1}$ $INDEX_{W3_{17,4}} := SEP_08_{5,m,1}$
 $INDEX_{W3_{15,5}} := JUL_08_{6,m,1}$ $INDEX_{W3_{16,5}} := AUG_08_{6,m,1}$ $INDEX_{W3_{17,5}} := SEP_08_{6,m,1}$
 $INDEX_{W3_{15,6}} := JUL_08_{7,m,1}$ $INDEX_{W3_{16,6}} := AUG_08_{7,m,1}$ $INDEX_{W3_{17,6}} := SEP_08_{7,m,1}$

$INDEX_{W3_{18,0}} := OCT_08_{1,m,1}$ $INDEX_{W3_{19,0}} := NOV_08_{1,m,1}$ $INDEX_{W3_{20,0}} := DEC_08_{1,m,1}$
 $INDEX_{W3_{18,1}} := OCT_08_{2,m,1}$ $INDEX_{W3_{19,1}} := NOV_08_{2,m,1}$ $INDEX_{W3_{20,1}} := DEC_08_{2,m,1}$
 $INDEX_{W3_{18,2}} := OCT_08_{3,m,1}$ $INDEX_{W3_{19,2}} := NOV_08_{3,m,1}$ $INDEX_{W3_{20,2}} := DEC_08_{3,m,1}$
 $INDEX_{W3_{18,3}} := OCT_08_{4,m,1}$ $INDEX_{W3_{19,3}} := NOV_08_{4,m,1}$ $INDEX_{W3_{20,3}} := DEC_08_{4,m,1}$
 $INDEX_{W3_{18,4}} := OCT_08_{5,m,1}$ $INDEX_{W3_{19,4}} := NOV_08_{5,m,1}$ $INDEX_{W3_{20,4}} := DEC_08_{5,m,1}$
 $INDEX_{W3_{18,5}} := OCT_08_{6,m,1}$ $INDEX_{W3_{19,5}} := NOV_08_{6,m,1}$ $INDEX_{W3_{20,5}} := DEC_08_{6,m,1}$
 $INDEX_{W3_{18,6}} := OCT_08_{7,m,1}$ $INDEX_{W3_{19,6}} := NOV_08_{7,m,1}$ $INDEX_{W3_{20,6}} := DEC_08_{7,m,1}$

$INDEX_{W3_{21,0}} := JAN_09_{1,m,1}$ $INDEX_{W3_{22,0}} := FEB_09_{1,m,1}$ $INDEX_{W3_{23,0}} := MRT_09_{1,m,1}$
 $INDEX_{W3_{21,1}} := JAN_09_{2,m,1}$ $INDEX_{W3_{22,1}} := FEB_09_{2,m,1}$ $INDEX_{W3_{23,1}} := MRT_09_{2,m,1}$
 $INDEX_{W3_{21,2}} := JAN_09_{3,m,1}$ $INDEX_{W3_{22,2}} := FEB_09_{3,m,1}$ $INDEX_{W3_{23,2}} := MRT_09_{3,m,1}$
 $INDEX_{W3_{21,3}} := JAN_09_{4,m,1}$ $INDEX_{W3_{22,3}} := FEB_09_{4,m,1}$ $INDEX_{W3_{23,3}} := MRT_09_{4,m,1}$

$INDEX_{W3_{21,4}} := JAN_09_{5_{m,1}}$ $INDEX_{W3_{22,4}} := FEB_09_{5_{m,1}}$ $INDEX_{W3_{23,4}} := MRT_09_{5_{m,1}}$
 $INDEX_{W3_{21,5}} := JAN_09_{6_{m,1}}$ $INDEX_{W3_{22,5}} := FEB_09_{6_{m,1}}$ $INDEX_{W3_{23,5}} := MRT_09_{6_{m,1}}$
 $INDEX_{W3_{21,6}} := JAN_09_{7_{m,1}}$ $INDEX_{W3_{22,6}} := FEB_09_{7_{m,1}}$ $INDEX_{W3_{23,6}} := MRT_09_{7_{m,1}}$

$INDEX_{W3_{24,0}} := APR_09_{1_{m,1}}$

$INDEX_{W3_{24,1}} := APR_09_{2_{m,1}}$

$INDEX_{W3_{24,2}} := APR_09_{3_{m,1}}$

$INDEX_{W3_{24,3}} := APR_09_{4_{m,1}}$

$INDEX_{W3_{24,4}} := APR_09_{5_{m,1}}$

$INDEX_{W3_{24,5}} := APR_09_{6_{m,1}}$

$INDEX_{W3_{24,6}} := APR_09_{7_{m,1}}$

Index WHITE - Threshold THD > 4

$m := 19$

$INDEX_{W4_{0,0}} := APR_07_{1_{m,1}}$ $INDEX_{W4_{1,0}} := MAY_07_{1_{m,1}}$ $INDEX_{W4_{2,0}} := JUN_07_{1_{m,1}}$
 $INDEX_{W4_{0,1}} := APR_07_{2_{m,1}}$ $INDEX_{W4_{1,1}} := MAY_07_{2_{m,1}}$ $INDEX_{W4_{2,1}} := JUN_07_{2_{m,1}}$
 $INDEX_{W4_{0,2}} := APR_07_{3_{m,1}}$ $INDEX_{W4_{1,2}} := MAY_07_{3_{m,1}}$ $INDEX_{W4_{2,2}} := JUN_07_{3_{m,1}}$
 $INDEX_{W4_{0,3}} := APR_07_{4_{m,1}}$ $INDEX_{W4_{1,3}} := MAY_07_{4_{m,1}}$ $INDEX_{W4_{2,3}} := JUN_07_{4_{m,1}}$
 $INDEX_{W4_{0,4}} := APR_07_{5_{m,1}}$ $INDEX_{W4_{1,4}} := MAY_07_{5_{m,1}}$ $INDEX_{W4_{2,4}} := JUN_07_{5_{m,1}}$
 $INDEX_{W4_{0,5}} := APR_07_{6_{m,1}}$ $INDEX_{W4_{1,5}} := MAY_07_{6_{m,1}}$ $INDEX_{W4_{2,5}} := JUN_07_{6_{m,1}}$
 $INDEX_{W4_{0,6}} := APR_07_{7_{m,1}}$ $INDEX_{W4_{1,6}} := AUG_07_{7_{m,1}}$ $INDEX_{W4_{2,6}} := JUN_07_{7_{m,1}}$

$INDEX_{W4_{3,0}} := JUL_07_{1_{m,1}}$ $INDEX_{W4_{4,0}} := AUG_07_{1_{m,1}}$ $INDEX_{W4_{5,0}} := SEP_07_{1_{m,1}}$
 $INDEX_{W4_{3,1}} := JUL_07_{2_{m,1}}$ $INDEX_{W4_{4,1}} := AUG_07_{2_{m,1}}$ $INDEX_{W4_{5,1}} := SEP_07_{2_{m,1}}$
 $INDEX_{W4_{3,2}} := JUL_07_{3_{m,1}}$ $INDEX_{W4_{4,2}} := AUG_07_{3_{m,1}}$ $INDEX_{W4_{5,2}} := SEP_07_{3_{m,1}}$
 $INDEX_{W4_{3,3}} := JUL_07_{4_{m,1}}$ $INDEX_{W4_{4,3}} := AUG_07_{4_{m,1}}$ $INDEX_{W4_{5,3}} := SEP_07_{4_{m,1}}$
 $INDEX_{W4_{3,4}} := JUL_07_{5_{m,1}}$ $INDEX_{W4_{4,4}} := AUG_07_{5_{m,1}}$ $INDEX_{W4_{5,4}} := SEP_07_{5_{m,1}}$
 $INDEX_{W4_{3,5}} := JUL_07_{6_{m,1}}$ $INDEX_{W4_{4,5}} := AUG_07_{6_{m,1}}$ $INDEX_{W4_{5,5}} := SEP_07_{6_{m,1}}$
 $INDEX_{W4_{3,6}} := JUL_07_{7_{m,1}}$ $INDEX_{W4_{4,6}} := AUG_07_{7_{m,1}}$ $INDEX_{W4_{5,6}} := SEP_07_{7_{m,1}}$

$INDEX_{W4_{6,0}} := OCT_07_{1m,1}$ $INDEX_{W4_{7,0}} := NOV_07_{1m,1}$ $INDEX_{W4_{8,0}} := DEC_07_{1m,1}$
 $INDEX_{W4_{6,1}} := OCT_07_{2m,1}$ $INDEX_{W4_{7,1}} := NOV_07_{2m,1}$ $INDEX_{W4_{8,1}} := DEC_07_{2m,1}$
 $INDEX_{W4_{6,2}} := OCT_07_{3m,1}$ $INDEX_{W4_{7,2}} := NOV_07_{3m,1}$ $INDEX_{W4_{8,2}} := DEC_07_{3m,1}$
 $INDEX_{W4_{6,3}} := OCT_07_{4m,1}$ $INDEX_{W4_{7,3}} := NOV_07_{4m,1}$ $INDEX_{W4_{8,3}} := DEC_07_{4m,1}$
 $INDEX_{W4_{6,4}} := OCT_07_{5m,1}$ $INDEX_{W4_{7,4}} := NOV_07_{5m,1}$ $INDEX_{W4_{8,4}} := DEC_07_{5m,1}$
 $INDEX_{W4_{6,5}} := OCT_07_{6m,1}$ $INDEX_{W4_{7,5}} := NOV_07_{6m,1}$ $INDEX_{W4_{8,5}} := DEC_07_{6m,1}$
 $INDEX_{W4_{6,6}} := OCT_07_{7m,1}$ $INDEX_{W4_{7,6}} := NOV_07_{7m,1}$ $INDEX_{W4_{8,6}} := DEC_07_{7m,1}$

$INDEX_{W4_{9,0}} := JAN_08_{1m,1}$ $INDEX_{W4_{10,0}} := FEB_08_{1m,1}$ $INDEX_{W4_{11,0}} := MRT_08_{1m,1}$
 $INDEX_{W4_{9,1}} := JAN_08_{2m,1}$ $INDEX_{W4_{10,1}} := FEB_08_{2m,1}$ $INDEX_{W4_{11,1}} := MRT_08_{2m,1}$
 $INDEX_{W4_{9,2}} := JAN_08_{3m,1}$ $INDEX_{W4_{10,2}} := FEB_08_{3m,1}$ $INDEX_{W4_{11,2}} := MRT_08_{3m,1}$
 $INDEX_{W4_{9,3}} := JAN_08_{4m,1}$ $INDEX_{W4_{10,3}} := FEB_08_{4m,1}$ $INDEX_{W4_{11,3}} := MRT_08_{4m,1}$
 $INDEX_{W4_{9,4}} := JAN_08_{5m,1}$ $INDEX_{W4_{10,4}} := FEB_08_{5m,1}$ $INDEX_{W4_{11,4}} := MRT_08_{5m,1}$
 $INDEX_{W4_{9,5}} := JAN_08_{6m,1}$ $INDEX_{W4_{10,5}} := FEB_08_{6m,1}$ $INDEX_{W4_{11,5}} := MRT_08_{6m,1}$
 $INDEX_{W4_{9,6}} := JAN_08_{7m,1}$ $INDEX_{W4_{10,6}} := FEB_08_{7m,1}$ $INDEX_{W4_{11,6}} := MRT_08_{7m,1}$

$INDEX_{W4_{12,0}} := APR_08_{1m,1}$ $INDEX_{W4_{13,0}} := MAY_08_{1m,1}$ $INDEX_{W4_{14,0}} := JUN_08_{1m,1}$
 $INDEX_{W4_{12,1}} := APR_08_{2m,1}$ $INDEX_{W4_{13,1}} := MAY_08_{2m,1}$ $INDEX_{W4_{14,1}} := JUN_08_{2m,1}$
 $INDEX_{W4_{12,2}} := APR_08_{3m,1}$ $INDEX_{W4_{13,2}} := MAY_08_{3m,1}$ $INDEX_{W4_{14,2}} := JUN_08_{3m,1}$
 $INDEX_{W4_{12,3}} := APR_08_{4m,1}$ $INDEX_{W4_{13,3}} := MAY_08_{4m,1}$ $INDEX_{W4_{14,3}} := JUN_08_{4m,1}$
 $INDEX_{W4_{12,4}} := APR_08_{5m,1}$ $INDEX_{W4_{13,4}} := MAY_08_{5m,1}$ $INDEX_{W4_{14,4}} := JUN_08_{5m,1}$
 $INDEX_{W4_{12,5}} := APR_08_{6m,1}$ $INDEX_{W4_{13,5}} := MAY_08_{6m,1}$ $INDEX_{W4_{14,5}} := JUN_08_{6m,1}$
 $INDEX_{W4_{12,6}} := APR_08_{7m,1}$ $INDEX_{W4_{13,6}} := AUG_08_{7m,1}$ $INDEX_{W4_{14,6}} := JUN_08_{7m,1}$

$INDEX_{W4_{15,0}} := JUL_08_{1m,1}$ $INDEX_{W4_{16,0}} := AUG_08_{1m,1}$ $INDEX_{W4_{17,0}} := SEP_08_{1m,1}$
 $INDEX_{W4_{15,1}} := JUL_08_{2m,1}$ $INDEX_{W4_{16,1}} := AUG_08_{2m,1}$ $INDEX_{W4_{17,1}} := SEP_08_{2m,1}$
 $INDEX_{W4_{15,2}} := JUL_08_{3m,1}$ $INDEX_{W4_{16,2}} := AUG_08_{3m,1}$ $INDEX_{W4_{17,2}} := SEP_08_{3m,1}$
 $INDEX_{W4_{15,3}} := JUL_08_{4m,1}$ $INDEX_{W4_{16,3}} := AUG_08_{4m,1}$ $INDEX_{W4_{17,3}} := SEP_08_{4m,1}$

$INDEX_{W4_{15,4}} := JUL_08_{5_{m,1}}$ $INDEX_{W4_{16,4}} := AUG_08_{5_{m,1}}$ $INDEX_{W4_{17,4}} := SEP_08_{5_{m,1}}$
 $INDEX_{W4_{15,5}} := JUL_08_{6_{m,1}}$ $INDEX_{W4_{16,5}} := AUG_08_{6_{m,1}}$ $INDEX_{W4_{17,5}} := SEP_08_{6_{m,1}}$
 $INDEX_{W4_{15,6}} := JUL_08_{7_{m,1}}$ $INDEX_{W4_{16,6}} := AUG_08_{7_{m,1}}$ $INDEX_{W4_{17,6}} := SEP_08_{7_{m,1}}$

$INDEX_{W4_{18,0}} := OCT_08_{1_{m,1}}$ $INDEX_{W4_{19,0}} := NOV_08_{1_{m,1}}$ $INDEX_{W4_{20,0}} := DEC_08_{1_{m,1}}$
 $INDEX_{W4_{18,1}} := OCT_08_{2_{m,1}}$ $INDEX_{W4_{19,1}} := NOV_08_{2_{m,1}}$ $INDEX_{W4_{20,1}} := DEC_08_{2_{m,1}}$
 $INDEX_{W4_{18,2}} := OCT_08_{3_{m,1}}$ $INDEX_{W4_{19,2}} := NOV_08_{3_{m,1}}$ $INDEX_{W4_{20,2}} := DEC_08_{3_{m,1}}$
 $INDEX_{W4_{18,3}} := OCT_08_{4_{m,1}}$ $INDEX_{W4_{19,3}} := NOV_08_{4_{m,1}}$ $INDEX_{W4_{20,3}} := DEC_08_{4_{m,1}}$
 $INDEX_{W4_{18,4}} := OCT_08_{5_{m,1}}$ $INDEX_{W4_{19,4}} := NOV_08_{5_{m,1}}$ $INDEX_{W4_{20,4}} := DEC_08_{5_{m,1}}$
 $INDEX_{W4_{18,5}} := OCT_08_{6_{m,1}}$ $INDEX_{W4_{19,5}} := NOV_08_{6_{m,1}}$ $INDEX_{W4_{20,5}} := DEC_08_{6_{m,1}}$
 $INDEX_{W4_{18,6}} := OCT_08_{7_{m,1}}$ $INDEX_{W4_{19,6}} := NOV_08_{7_{m,1}}$ $INDEX_{W4_{20,6}} := DEC_08_{7_{m,1}}$

$INDEX_{W4_{21,0}} := JAN_09_{1_{m,1}}$ $INDEX_{W4_{22,0}} := FEB_09_{1_{m,1}}$ $INDEX_{W4_{23,0}} := MRT_09_{1_{m,1}}$
 $INDEX_{W4_{21,1}} := JAN_09_{2_{m,1}}$ $INDEX_{W4_{22,1}} := FEB_09_{2_{m,1}}$ $INDEX_{W4_{23,1}} := MRT_09_{2_{m,1}}$
 $INDEX_{W4_{21,2}} := JAN_09_{3_{m,1}}$ $INDEX_{W4_{22,2}} := FEB_09_{3_{m,1}}$ $INDEX_{W4_{23,2}} := MRT_09_{3_{m,1}}$
 $INDEX_{W4_{21,3}} := JAN_09_{4_{m,1}}$ $INDEX_{W4_{22,3}} := FEB_09_{4_{m,1}}$ $INDEX_{W4_{23,3}} := MRT_09_{4_{m,1}}$
 $INDEX_{W4_{21,4}} := JAN_09_{5_{m,1}}$ $INDEX_{W4_{22,4}} := FEB_09_{5_{m,1}}$ $INDEX_{W4_{23,4}} := MRT_09_{5_{m,1}}$
 $INDEX_{W4_{21,5}} := JAN_09_{6_{m,1}}$ $INDEX_{W4_{22,5}} := FEB_09_{6_{m,1}}$ $INDEX_{W4_{23,5}} := MRT_09_{6_{m,1}}$
 $INDEX_{W4_{21,6}} := JAN_09_{7_{m,1}}$ $INDEX_{W4_{22,6}} := FEB_09_{7_{m,1}}$ $INDEX_{W4_{23,6}} := MRT_09_{7_{m,1}}$

$INDEX_{W4_{24,0}} := APR_09_{1_{m,1}}$
 $INDEX_{W4_{24,1}} := APR_09_{2_{m,1}}$
 $INDEX_{W4_{24,2}} := APR_09_{3_{m,1}}$
 $INDEX_{W4_{24,3}} := APR_09_{4_{m,1}}$
 $INDEX_{W4_{24,4}} := APR_09_{5_{m,1}}$
 $INDEX_{W4_{24,5}} := APR_09_{6_{m,1}}$
 $INDEX_{W4_{24,6}} := APR_09_{7_{m,1}}$

SAMPLE COUNTING

m := 24

SAMPLE _{0,0} := APR_07 _{1,m,1}	SAMPLE _{1,0} := MAY_07 _{1,m,1}	SAMPLE _{2,0} := JUN_07 _{1,m,1}
SAMPLE _{0,1} := APR_07 _{2,m,1}	SAMPLE _{1,1} := MAY_07 _{2,m,1}	SAMPLE _{2,1} := JUN_07 _{2,m,1}
SAMPLE _{0,2} := APR_07 _{3,m,1}	SAMPLE _{1,2} := MAY_07 _{3,m,1}	SAMPLE _{2,2} := JUN_07 _{3,m,1}
SAMPLE _{0,3} := APR_07 _{4,m,1}	SAMPLE _{1,3} := MAY_07 _{4,m,1}	SAMPLE _{2,3} := JUN_07 _{4,m,1}
SAMPLE _{0,4} := APR_07 _{5,m,1}	SAMPLE _{1,4} := MAY_07 _{5,m,1}	SAMPLE _{2,4} := JUN_07 _{5,m,1}
SAMPLE _{0,5} := APR_07 _{6,m,1}	SAMPLE _{1,5} := MAY_07 _{6,m,1}	SAMPLE _{2,5} := JUN_07 _{6,m,1}
SAMPLE _{0,6} := APR_07 _{7,m,1}	SAMPLE _{1,6} := AUG_07 _{7,m,1}	SAMPLE _{2,6} := JUN_07 _{7,m,1}
SAMPLE _{3,0} := JUL_07 _{1,m,1}	SAMPLE _{4,0} := AUG_07 _{1,m,1}	SAMPLE _{5,0} := SEP_07 _{1,m,1}
SAMPLE _{3,1} := JUL_07 _{2,m,1}	SAMPLE _{4,1} := AUG_07 _{2,m,1}	SAMPLE _{5,1} := SEP_07 _{2,m,1}
SAMPLE _{3,2} := JUL_07 _{3,m,1}	SAMPLE _{4,2} := AUG_07 _{3,m,1}	SAMPLE _{5,2} := SEP_07 _{3,m,1}
SAMPLE _{3,3} := JUL_07 _{4,m,1}	SAMPLE _{4,3} := AUG_07 _{4,m,1}	SAMPLE _{5,3} := SEP_07 _{4,m,1}
SAMPLE _{3,4} := JUL_07 _{5,m,1}	SAMPLE _{4,4} := AUG_07 _{5,m,1}	SAMPLE _{5,4} := SEP_07 _{5,m,1}
SAMPLE _{3,5} := JUL_07 _{6,m,1}	SAMPLE _{4,5} := AUG_07 _{6,m,1}	SAMPLE _{5,5} := SEP_07 _{6,m,1}
SAMPLE _{3,6} := JUL_07 _{7,m,1}	SAMPLE _{4,6} := AUG_07 _{7,m,1}	SAMPLE _{5,6} := SEP_07 _{7,m,1}
SAMPLE _{6,0} := OCT_07 _{1,m,1}	SAMPLE _{7,0} := NOV_07 _{1,m,1}	SAMPLE _{8,0} := DEC_07 _{1,m,1}
SAMPLE _{6,1} := OCT_07 _{2,m,1}	SAMPLE _{7,1} := NOV_07 _{2,m,1}	SAMPLE _{8,1} := DEC_07 _{2,m,1}
SAMPLE _{6,2} := OCT_07 _{3,m,1}	SAMPLE _{7,2} := NOV_07 _{3,m,1}	SAMPLE _{8,2} := DEC_07 _{3,m,1}
SAMPLE _{6,3} := OCT_07 _{4,m,1}	SAMPLE _{7,3} := NOV_07 _{4,m,1}	SAMPLE _{8,3} := DEC_07 _{4,m,1}
SAMPLE _{6,4} := OCT_07 _{5,m,1}	SAMPLE _{7,4} := NOV_07 _{5,m,1}	SAMPLE _{8,4} := DEC_07 _{5,m,1}
SAMPLE _{6,5} := OCT_07 _{6,m,1}	SAMPLE _{7,5} := NOV_07 _{6,m,1}	SAMPLE _{8,5} := DEC_07 _{6,m,1}
SAMPLE _{6,6} := OCT_07 _{7,m,1}	SAMPLE _{7,6} := NOV_07 _{7,m,1}	SAMPLE _{8,6} := DEC_07 _{7,m,1}
SAMPLE _{9,0} := JAN_08 _{1,m,1}	SAMPLE _{10,0} := FEB_08 _{2,m,1}	SAMPLE _{11,0} := MRT_08 _{1,m,1}
SAMPLE _{9,1} := JAN_08 _{2,m,1}	SAMPLE _{10,1} := FEB_08 _{2,m,1}	SAMPLE _{11,1} := MRT_08 _{2,m,1}
SAMPLE _{9,2} := JAN_08 _{3,m,1}	SAMPLE _{10,2} := FEB_08 _{2,m,1}	SAMPLE _{11,2} := MRT_08 _{3,m,1}

SAMPLE_{9,3} := JAN_08₄_{m,1} SAMPLE_{10,3} := FEB_08₂_{m,1} SAMPLE_{11,3} := MRT_08₄_{m,1}
 SAMPLE_{9,4} := JAN_08₅_{m,1} SAMPLE_{10,4} := FEB_08₂_{m,1} SAMPLE_{11,4} := MRT_08₅_{m,1}
 SAMPLE_{9,5} := JAN_08₆_{m,1} SAMPLE_{10,5} := FEB_08₂_{m,1} SAMPLE_{11,5} := MRT_08₆_{m,1}
 SAMPLE_{9,6} := JAN_08₇_{m,1} SAMPLE_{10,6} := FEB_08₂_{m,1} SAMPLE_{11,6} := MRT_08₇_{m,1}

SAMPLE_{12,0} := APR_08₁_{m,1} SAMPLE_{13,0} := MAY_08₁_{m,1} SAMPLE_{14,0} := JUN_08₁_{m,1}
 SAMPLE_{12,1} := APR_08₂_{m,1} SAMPLE_{13,1} := MAY_08₂_{m,1} SAMPLE_{14,1} := JUN_08₂_{m,1}
 SAMPLE_{12,2} := APR_08₃_{m,1} SAMPLE_{13,2} := MAY_08₃_{m,1} SAMPLE_{14,2} := JUN_08₃_{m,1}
 SAMPLE_{12,3} := APR_08₄_{m,1} SAMPLE_{13,3} := MAY_08₄_{m,1} SAMPLE_{14,3} := JUN_08₄_{m,1}
 SAMPLE_{12,4} := APR_08₅_{m,1} SAMPLE_{13,4} := MAY_08₅_{m,1} SAMPLE_{14,4} := JUN_08₅_{m,1}
 SAMPLE_{12,5} := APR_08₆_{m,1} SAMPLE_{13,5} := MAY_08₆_{m,1} SAMPLE_{14,5} := JUN_08₆_{m,1}
 SAMPLE_{12,6} := APR_08₇_{m,1} SAMPLE_{13,6} := AUG_08₇_{m,1} SAMPLE_{14,6} := JUN_08₇_{m,1}

SAMPLE_{15,0} := JUL_08₁_{m,1} SAMPLE_{16,0} := AUG_08₁_{m,1} SAMPLE_{17,0} := SEP_08₁_{m,1}
 SAMPLE_{15,1} := JUL_08₂_{m,1} SAMPLE_{16,1} := AUG_08₂_{m,1} SAMPLE_{17,1} := SEP_08₂_{m,1}
 SAMPLE_{15,2} := JUL_08₃_{m,1} SAMPLE_{16,2} := AUG_08₃_{m,1} SAMPLE_{17,2} := SEP_08₃_{m,1}
 SAMPLE_{15,3} := JUL_08₄_{m,1} SAMPLE_{16,3} := AUG_08₄_{m,1} SAMPLE_{17,3} := SEP_08₄_{m,1}
 SAMPLE_{15,4} := JUL_08₅_{m,1} SAMPLE_{16,4} := AUG_08₅_{m,1} SAMPLE_{17,4} := SEP_08₅_{m,1}
 SAMPLE_{15,5} := JUL_08₆_{m,1} SAMPLE_{16,5} := AUG_08₆_{m,1} SAMPLE_{17,5} := SEP_08₆_{m,1}
 SAMPLE_{15,6} := JUL_08₇_{m,1} SAMPLE_{16,6} := AUG_08₇_{m,1} SAMPLE_{17,6} := SEP_08₇_{m,1}

SAMPLE_{18,0} := OCT_08₁_{m,1} SAMPLE_{19,0} := NOV_08₁_{m,1} SAMPLE_{20,0} := DEC_08₁_{m,1}
 SAMPLE_{18,1} := OCT_08₂_{m,1} SAMPLE_{19,1} := NOV_08₂_{m,1} SAMPLE_{20,1} := DEC_08₂_{m,1}
 SAMPLE_{18,2} := OCT_08₃_{m,1} SAMPLE_{19,2} := NOV_08₃_{m,1} SAMPLE_{20,2} := DEC_08₃_{m,1}
 SAMPLE_{18,3} := OCT_08₄_{m,1} SAMPLE_{19,3} := NOV_08₄_{m,1} SAMPLE_{20,3} := DEC_08₄_{m,1}
 SAMPLE_{18,4} := OCT_08₅_{m,1} SAMPLE_{19,4} := NOV_08₅_{m,1} SAMPLE_{20,4} := DEC_08₅_{m,1}
 SAMPLE_{18,5} := OCT_08₆_{m,1} SAMPLE_{19,5} := NOV_08₆_{m,1} SAMPLE_{20,5} := DEC_08₆_{m,1}
 SAMPLE_{18,6} := OCT_08₇_{m,1} SAMPLE_{19,6} := NOV_08₇_{m,1} SAMPLE_{20,6} := DEC_08₇_{m,1}

SAMPLE _{21,0} := JAN_09 ₁ _{m,1}	SAMPLE _{22,0} := FEB_09 ₂ _{m,1}	SAMPLE _{23,0} := MRT_09 ₁ _{m,1}
SAMPLE _{21,1} := JAN_09 ₂ _{m,1}	SAMPLE _{22,1} := FEB_09 ₂ _{m,1}	SAMPLE _{23,1} := MRT_09 ₂ _{m,1}
SAMPLE _{21,2} := JAN_09 ₃ _{m,1}	SAMPLE _{22,2} := FEB_09 ₂ _{m,1}	SAMPLE _{23,2} := MRT_09 ₃ _{m,1}
SAMPLE _{21,3} := JAN_09 ₄ _{m,1}	SAMPLE _{22,3} := FEB_09 ₂ _{m,1}	SAMPLE _{23,3} := MRT_09 ₄ _{m,1}
SAMPLE _{21,4} := JAN_09 ₅ _{m,1}	SAMPLE _{22,4} := FEB_09 ₂ _{m,1}	SAMPLE _{23,4} := MRT_09 ₅ _{m,1}
SAMPLE _{21,5} := JAN_09 ₆ _{m,1}	SAMPLE _{22,5} := FEB_09 ₂ _{m,1}	SAMPLE _{23,5} := MRT_09 ₆ _{m,1}
SAMPLE _{21,6} := JAN_09 ₇ _{m,1}	SAMPLE _{22,6} := FEB_09 ₂ _{m,1}	SAMPLE _{23,6} := MRT_09 ₇ _{m,1}

SAMPLE_{24,0} := APR_09₁_{m,1}

SAMPLE_{24,1} := APR_09₂_{m,1}

SAMPLE_{24,2} := APR_09₃_{m,1}

SAMPLE_{24,3} := APR_09₄_{m,1}

SAMPLE_{24,4} := APR_09₅_{m,1}

SAMPLE_{24,5} := APR_09₆_{m,1}

SAMPLE_{24,6} := APR_09₇_{m,1}

SEGMENT MATRIX

SEG_{0,0} := 686080 SEG_{0,3} := 342045 SEG_{0,6} := 32285

SEG_{0,1} := 488370 SEG_{0,4} := 507170

SEG_{0,2} := 409220 SEG_{0,5} := 281375

SEG = $\begin{pmatrix} 6.861 \times 10^5 & 4.884 \times 10^5 & 4.092 \times 10^5 & 3.42 \times 10^5 & 5.072 \times 10^5 & 2.814 \times 10^5 & 3.228 \times 10^4 \end{pmatrix}$

SATHD CALCULATIONS

SATHD(MTHD_B, SEG) :=

X ← MTHD_B	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

SATHD(MTHD_R, SEG) :=

X ← MTHD_R	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

SATHD(MTHD_W, SEG) :=

X ← MTHD_W	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

```

SATHD(MTHD_AV, SEG) :=
  X ← MTHD_AV
  Y ← SEG
  for I ∈ 0..24
    
$$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$$

  Z

```

```

SATHD_B := SATHD(MTHD_B, SEG)   SATHD_W := SATHD(MTHD_W, SEG)
SATHD_R := SATHD(MTHD_R, SEG)   SATHD_AV := SATHD(MTHD_AV, SEG)

```

n := -1..25

SATHD 95% CALCULATIONS

```

SATHD_95(CP95_B, SEG) :=
  X ← CP95_B
  Y ← SEG
  for I ∈ 0..24
    
$$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$$

  Z

```

SATHD_95(CP95_R,SEG) := $\left| \begin{array}{l} X \leftarrow \text{CP95_R} \\ Y \leftarrow \text{SEG} \\ \text{for } I \in 0..24 \\ Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}} \\ Z \end{array} \right.$

SATHD_95(CP95_W,SEG) := $\left| \begin{array}{l} X \leftarrow \text{CP95_W} \\ Y \leftarrow \text{SEG} \\ \text{for } I \in 0..24 \\ Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}} \\ Z \end{array} \right.$

SATHD_95(CP95_AV,SEG) := $\left| \begin{array}{l} X \leftarrow \text{CP95_AV} \\ Y \leftarrow \text{SEG} \\ \text{for } I \in 0..24 \\ Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}} \\ Z \end{array} \right.$

SATHD_95_B := SATHD_95(CP95_B,SEC SATHD_95_W := SATHD_95(CP95_W,SEG)

SATHD_95_R := SATHD_95(CP95_R,SEC SATHD_95_AV := SATHD_95(CP95_AV,SEG)

SATHD 99% CALCULATIONS

SATHD_99(CP99_B,SEG) :=

X ← CP99_B	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

SATHD_99(CP99_R,SEG) :=

X ← CP99_R	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

SATHD_99(CP99_W,SEG) :=

X ← CP99_W	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

SATHD_99(CP99_AV, SEG) :=

X ← CP99_AV Y ← SEG for I ∈ 0..24 $Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$ Z	
--	--

SATHD_99_B := SATHD_99(CP99_B, SEG) SATHD_99_W := SATHD_99(CP99_W, SEG)

SATHD_99_R := SATHD_99(CP99_R, SEG) SATHD_99_AV := SATHD_99(CP99_AV, SEG)

INDEX - FREQUENCY INDEX CALCULATION

THRESHOLD >1

INDEX_B_1(INDEX_B1, SEG) :=

X ← INDEX_B1 Y ← SEG for I ∈ 0..24 $Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$ Z	
---	--

INDEX_R_1(INDEX_{R1},SEG) :=

X ← INDEX _{R1}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

INDEX_W_1(INDEX_{W1},SEG) :=

X ← INDEX _{W1}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

THRESHOLD >2

INDEX_B_2(INDEX_{B2},SEG) :=

X ← INDEX _{B2}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

INDEX_R_2(INDEX_{R2}, SEG) :=

X ← INDEX _{R2}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

INDEX_W_2(INDEX_{W2}, SEG) :=

X ← INDEX _{W2}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

THRESHOLD >3

INDEX_B_3(INDEX_{B3}, SEG) :=

X ← INDEX _{B3}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

INDEX_R_3(INDEX_{R3}, SEG) :=

X ← INDEX _{R3}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

INDEX_W_3(INDEX_{W3}, SEG) :=

X ← INDEX _{W3}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

THRESHOLD >4

INDEX_B_4(INDEX_{B4}, SEG) :=

X ← INDEX _{B4}	
Y ← SEG	
for I ∈ 0..24	
$Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$	
Z	

INDEX_R_4(INDEX _{R4} , SEG) :=	$X \leftarrow \text{INDEX}_{R4}$ $Y \leftarrow \text{SEG}$ for I ∈ 0..24 $Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$ Z
INDEX_W_4(INDEX _{W4} , SEG) :=	$X \leftarrow \text{INDEX}_{W4}$ $Y \leftarrow \text{SEG}$ for I ∈ 0..24 $Z_{I,0} \leftarrow \frac{X_{I,0} \cdot Y_{0,0} + X_{I,1} \cdot Y_{0,1} + X_{I,2} \cdot Y_{0,2} + X_{I,3} \cdot Y_{0,3} + X_{I,4} \cdot Y_{0,4} + X_{I,5} \cdot Y_{0,5} + X_{I,6} \cdot Y_{0,6}}{Y_{0,0} + Y_{0,1} + Y_{0,2} + Y_{0,3} + Y_{0,4} + Y_{0,5} + Y_{0,6}}$ Z

INDEX_W1 := 100·INDEX_W_1(INDEX_{W1}, SEG) INDEX_B1 := 100·INDEX_B_1(INDEX_{B1}, SEG)

INDEX_W2 := 100·INDEX_W_2(INDEX_{W2}, SEG) INDEX_B2 := 100·INDEX_B_2(INDEX_{B2}, SEG)

INDEX_W3 := 100·INDEX_W_3(INDEX_{W3}, SEG) INDEX_B3 := 100·INDEX_B_3(INDEX_{B3}, SEG)

INDEX_W4 := 100·INDEX_W_4(INDEX_{W4}, SEG) INDEX_B4 := 100·INDEX_B_4(INDEX_{B4}, SEG)

INDEX_R1 := 100·INDEX_R_1(INDEX_{R1}, SEG) INDEX_R3 := 100·INDEX_R_3(INDEX_{R3}, SEG)

INDEX_R2 := 100·INDEX_R_2(INDEX_{R2}, SEG) INDEX_R4 := 100·INDEX_R_4(INDEX_{R4}, SEG)

SAMPLE COUNTING

SAMP_TOT(SAMPLE) :=	X $\leftarrow$ SAMPLE for I $\in$ 0..24 for J $\in$ 0..6 Z $\leftarrow$ Z + X _{I,J} Z	SAM_PM(SAMPLE) :=	X $\leftarrow$ SAMPLE for I $\in$ 0..24 Z _{I,0} $\leftarrow$ X _{I,1} + X _{I,2} + X _{I,3} + X _{I,4} + X _{I,5} + X _{I,6} + X _{I,0} Z
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INCREASE / DECREASE CALC - SATHD

SATHD_ID(SATHD_B, SATHD_R, SATHD_W, SATHD_AV) :=	A $\leftarrow$ SATHD_B B $\leftarrow$ SATHD_R C $\leftarrow$ SATHD_W D $\leftarrow$ SATHD_AV J $\leftarrow$ 0 for I $\in$ 0..12 Z _{I,0} $\leftarrow$ A _{12+I,0} - A _{I,0} Z _{I,1} $\leftarrow$ B _{12+I,0} - B _{I,0} Z _{I,2} $\leftarrow$ C _{12+I,0} - C _{I,0} Z _{I,3} $\leftarrow$ D _{12+I,0} - D _{I,0} Z
---	---

SATHD_I_D := SATHD_ID(SATHD_B, SATHD_R, SATHD_W, SATHD_AV)

SATHD_ID_99(SATHD_99_B, SATHD_99_R, SATHD_99_W, SATHD_99_AV) :=

$A \leftarrow \text{SATHD_99_B}$ $B \leftarrow \text{SATHD_99_R}$ $C \leftarrow \text{SATHD_99_W}$ $D \leftarrow \text{SATHD_99_AV}$ $J \leftarrow 0$ for $I \in 0..12$ $Z_{I,0} \leftarrow A_{12+I,0} - A_{I,0}$ $Z_{I,1} \leftarrow B_{12+I,0} - B_{I,0}$ $Z_{I,2} \leftarrow C_{12+I,0} - C_{I,0}$ $Z_{I,3} \leftarrow D_{12+I,0} - D_{I,0}$ Z	$A \leftarrow \text{SATHD_99_B}$ $B \leftarrow \text{SATHD_99_R}$ $C \leftarrow \text{SATHD_99_W}$ $D \leftarrow \text{SATHD_99_AV}$ $J \leftarrow 0$ for $I \in 0..12$ $Z_{I,0} \leftarrow A_{12+I,0} - A_{I,0}$ $Z_{I,1} \leftarrow B_{12+I,0} - B_{I,0}$ $Z_{I,2} \leftarrow C_{12+I,0} - C_{I,0}$ $Z_{I,3} \leftarrow D_{12+I,0} - D_{I,0}$ Z
---	---

SATHD_99_ID := SATHD_ID_99(SATHD_99_B, SATHD_99_R, SATHD_99_W, SATHD_99_AV)

```

SATHD_ID_95(SATHD_95_B,SATHD_95_R,SATHD_95_W,SATHD_95_AV) :=
    A ← SATHD_95_B
    B ← SATHD_95_R
    C ← SATHD_95_W
    D ← SATHD_95_AV
    J ← 0
    for I ∈ 0..12
        | ZI,0 ← A12+I,0 - AI,0
        | ZI,1 ← B12+I,0 - BI,0
        | ZI,2 ← C12+I,0 - CI,0
        | ZI,3 ← D12+I,0 - DI,0
    Z

```

SATHD_95_ID := SATHD_ID_95(SATHD_95_B,SATHD_95_R,SATHD_95_W,SATHD_95_AV)

```

INDEX_1(INDEX_B1,INDEX_W1,INDEX_R1) :=
    A ← INDEX_B1
    B ← INDEX_W1
    C ← INDEX_R1
    J ← 0
    for I ∈ 0..12
        | ZI,0 ← A12+I,0 - AI,0
        | ZI,1 ← B12+I,0 - BI,0
        | ZI,2 ← C12+I,0 - CI,0
    Z

```

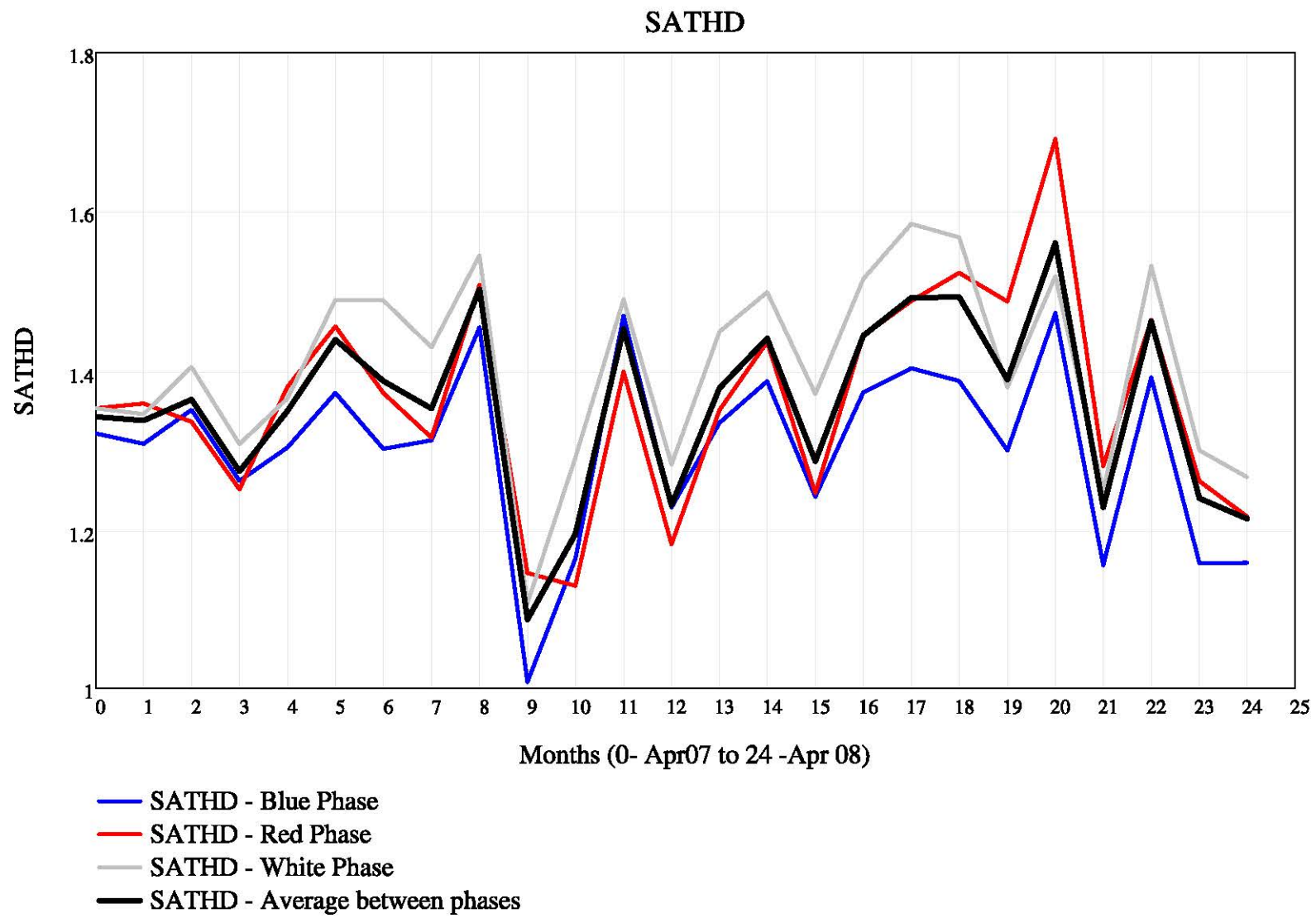
INDEX_2(INDEX_B2, INDEX_W2, INDEX_R2) :=

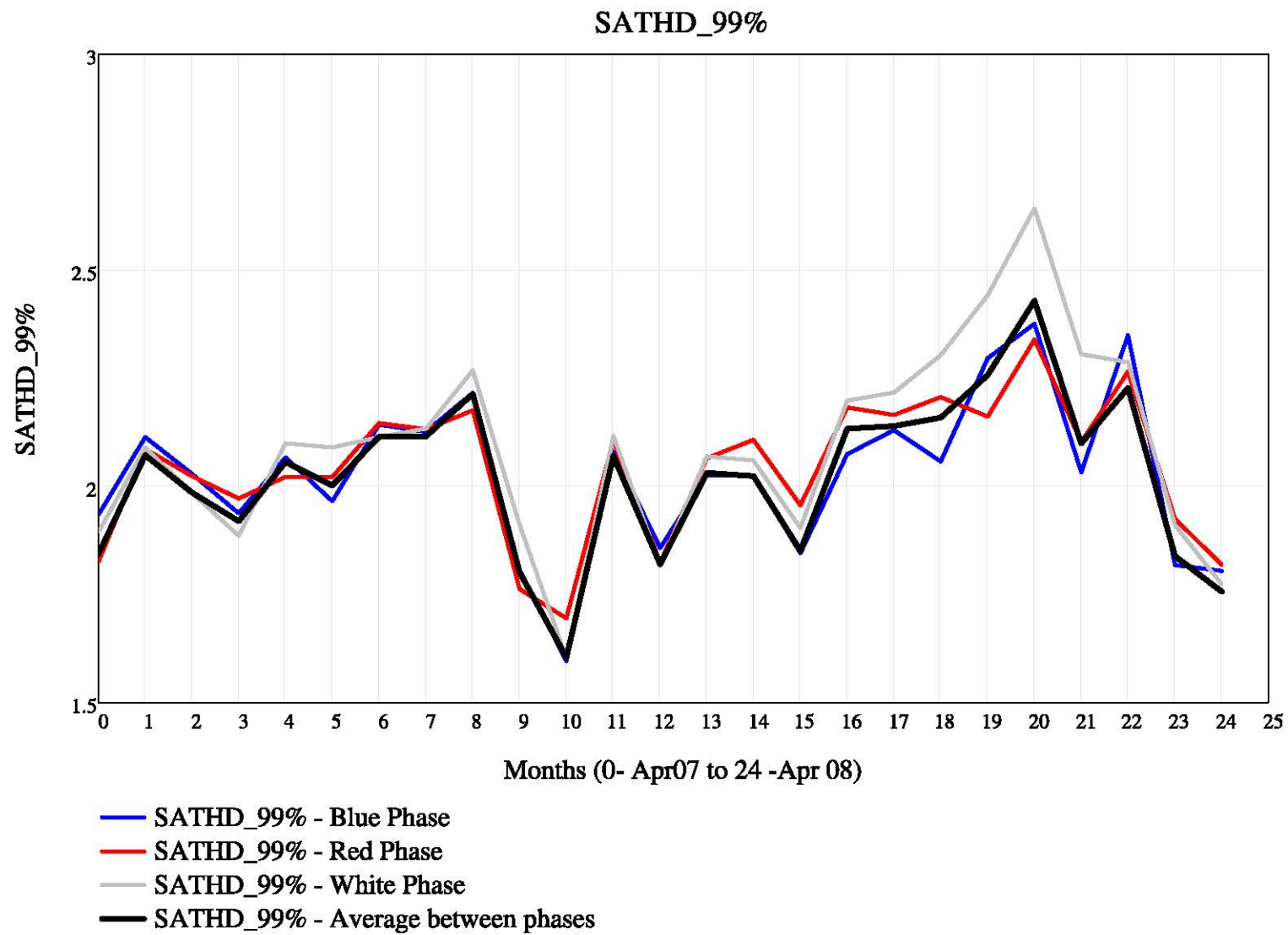
	A ← INDEX_B2
	B ← INDEX_W2
	C ← INDEX_R2
	J ← 0
	for I ∈ 0..12
	Z _{I,0} ← A _{12+I,0} - A _{I,0}
	Z _{I,1} ← B _{12+I,0} - B _{I,0}
	Z _{I,2} ← C _{12+I,0} - C _{I,0}
	Z

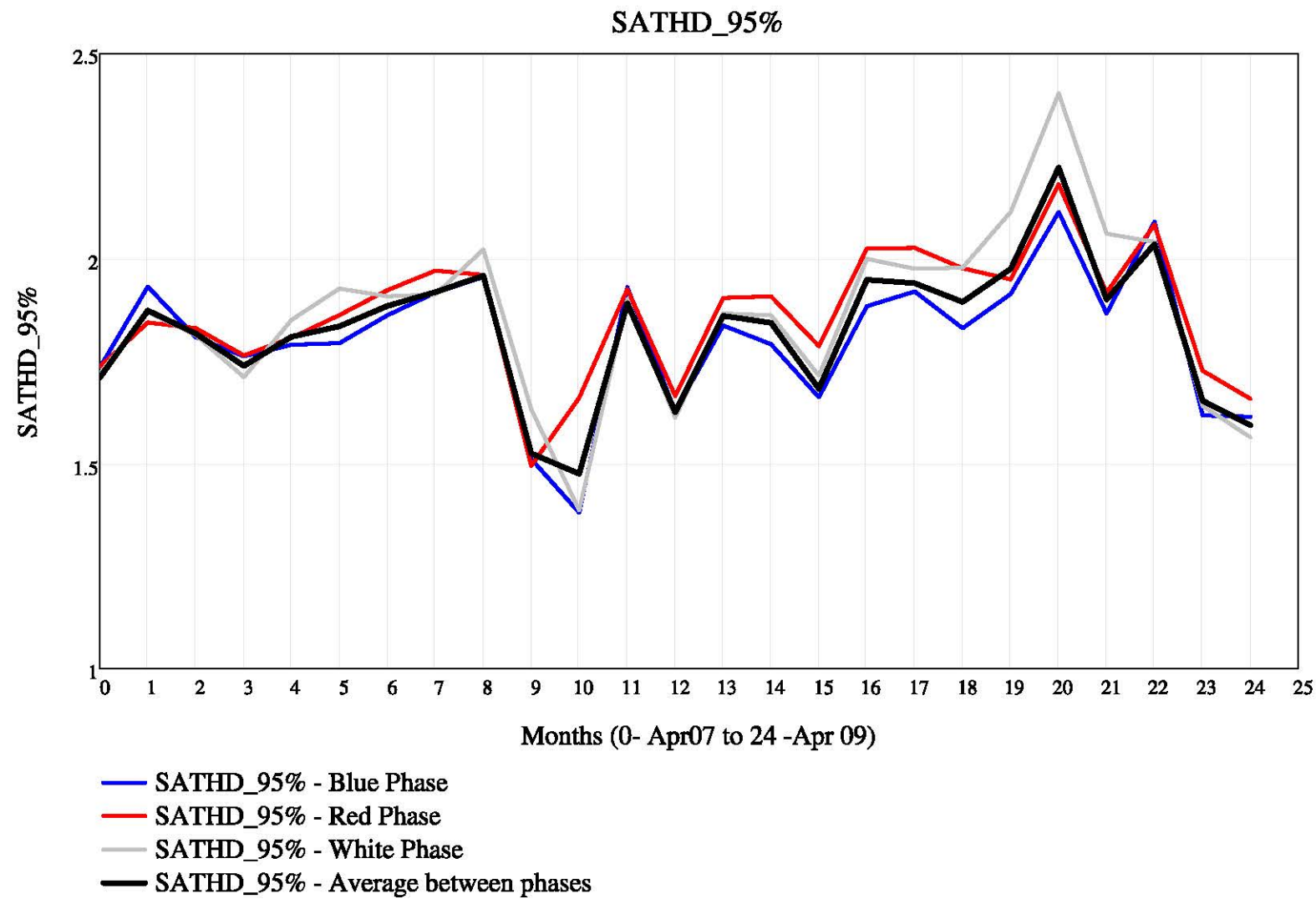
INDEX_3(INDEX_B3, INDEX_W3, INDEX_R3) :=

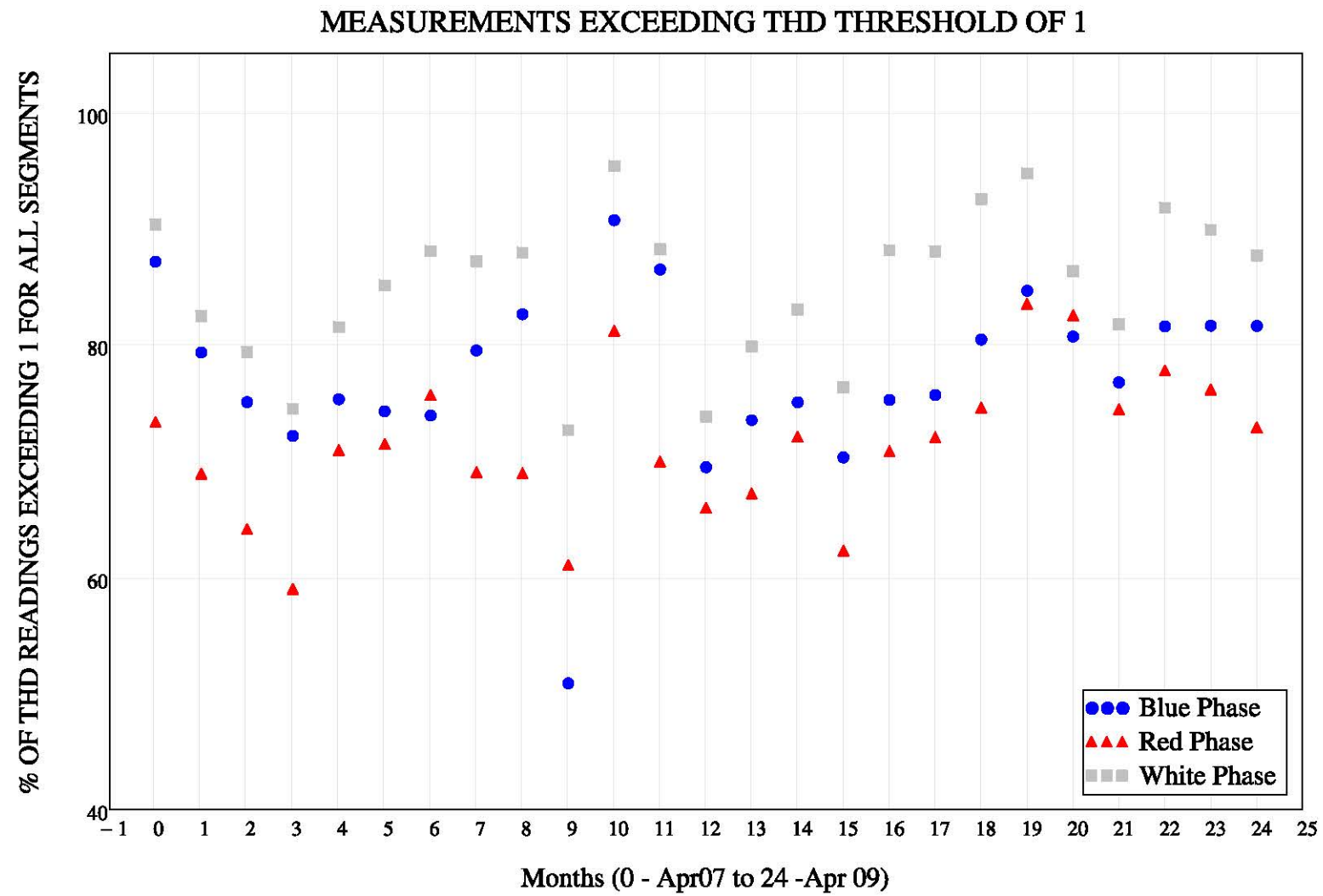
	A ← INDEX_B3
	B ← INDEX_W3
	C ← INDEX_R3
	J ← 0
	for I ∈ 0..12
	Z _{I,0} ← A _{12+I,0} - A _{I,0}
	Z _{I,1} ← B _{12+I,0} - B _{I,0}
	Z _{I,2} ← C _{12+I,0} - C _{I,0}
	Z

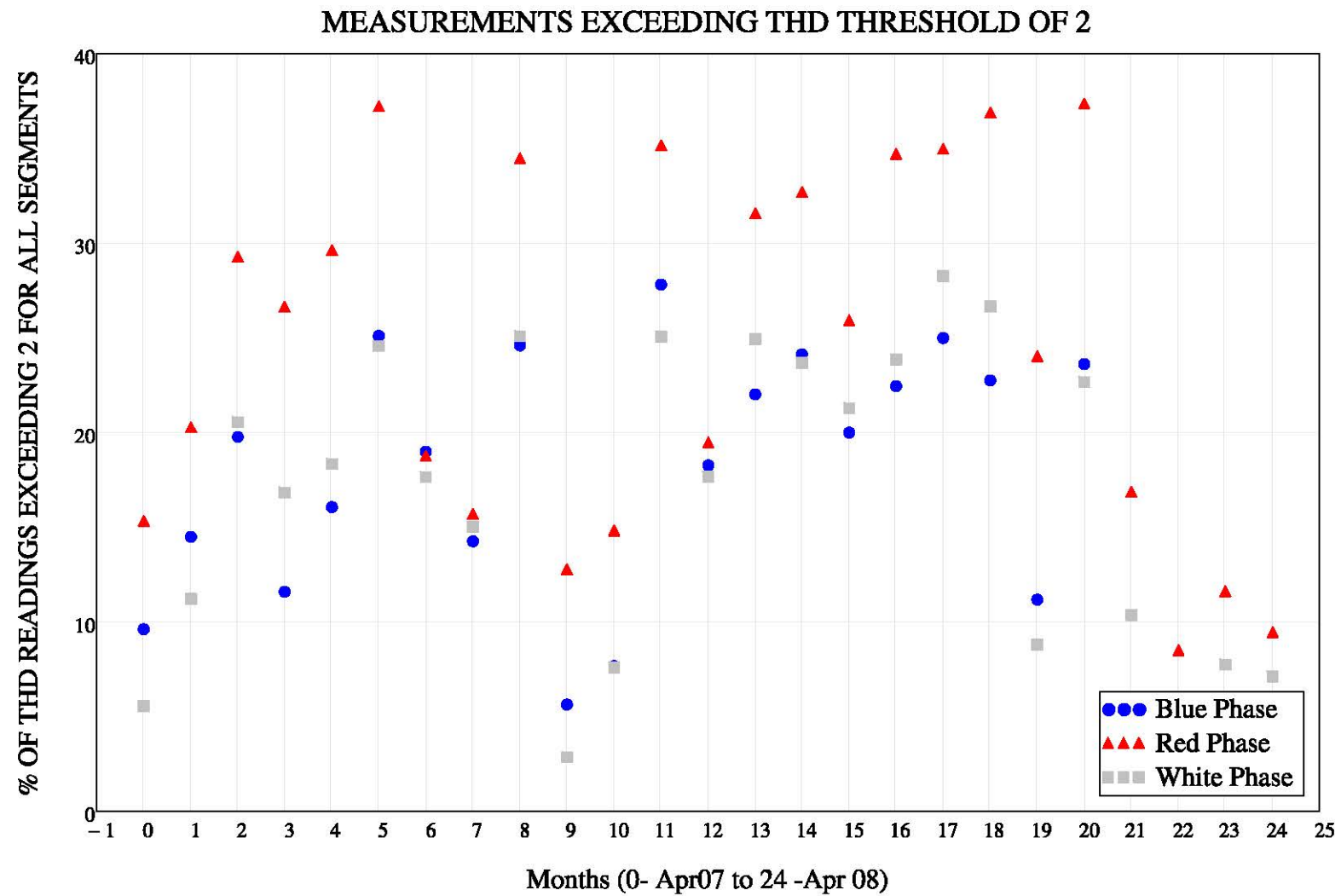
```
INDEX_4(INDEX_B4, INDEX_W4, INDEX_R4) :=  
    A ← INDEX_B4  
    B ← INDEX_W4  
    C ← INDEX_R4  
    J ← 0  
    for I ∈ 0..12  
        | ZI,0 ← A12+I,0 - AI,0  
        | ZI,1 ← B12+I,0 - BI,0  
        | ZI,2 ← C12+I,0 - CI,0  
    Z
```

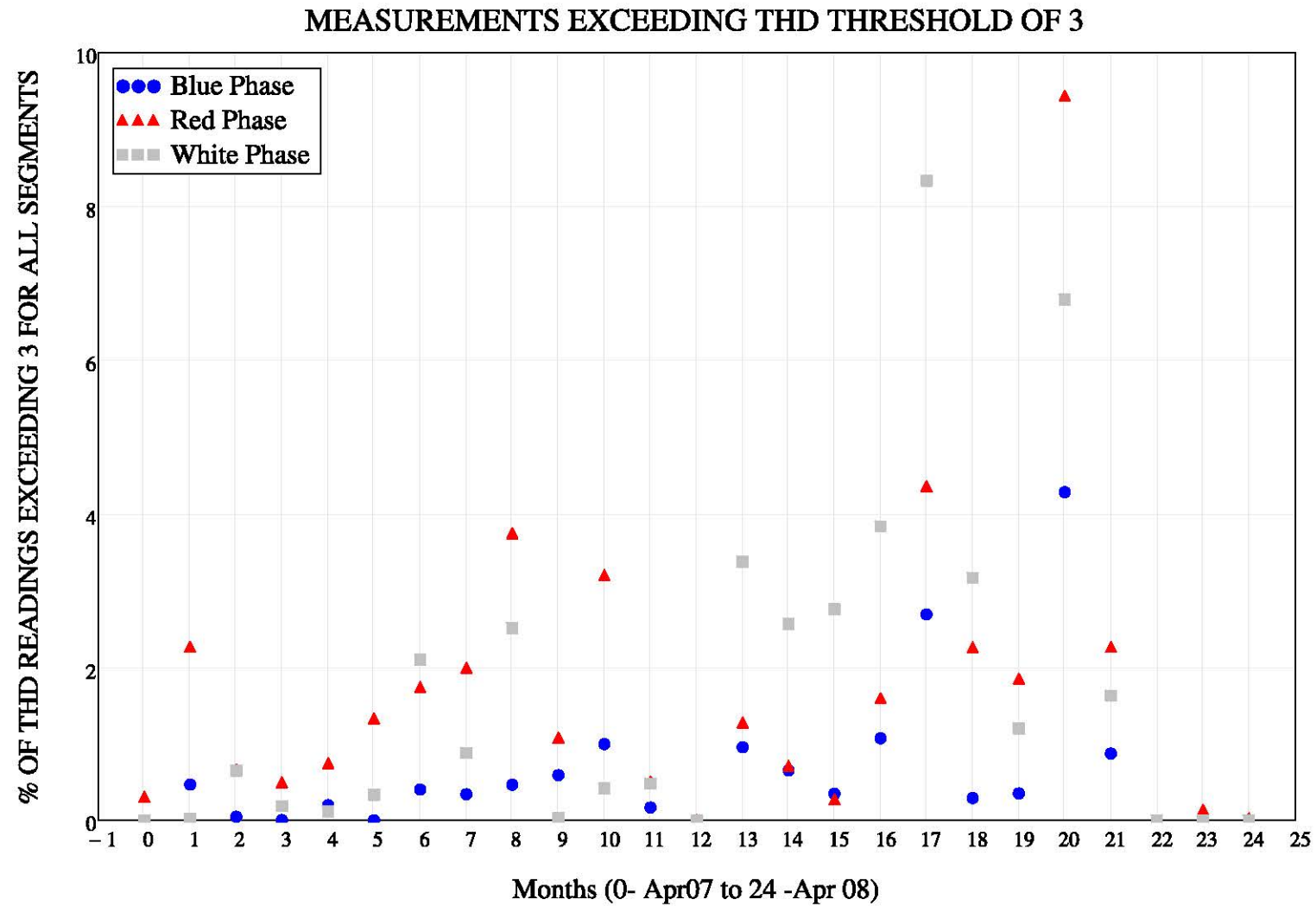


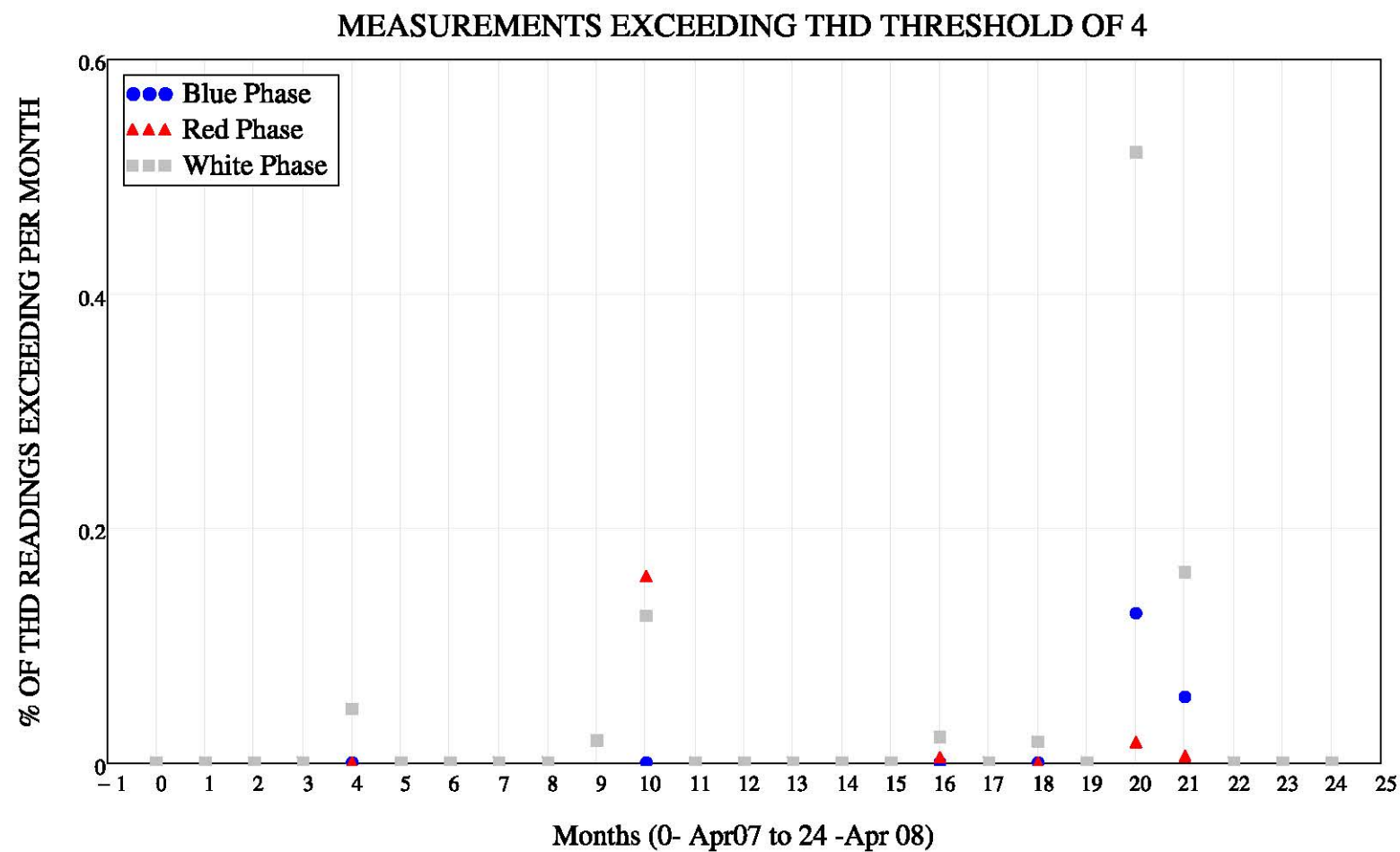


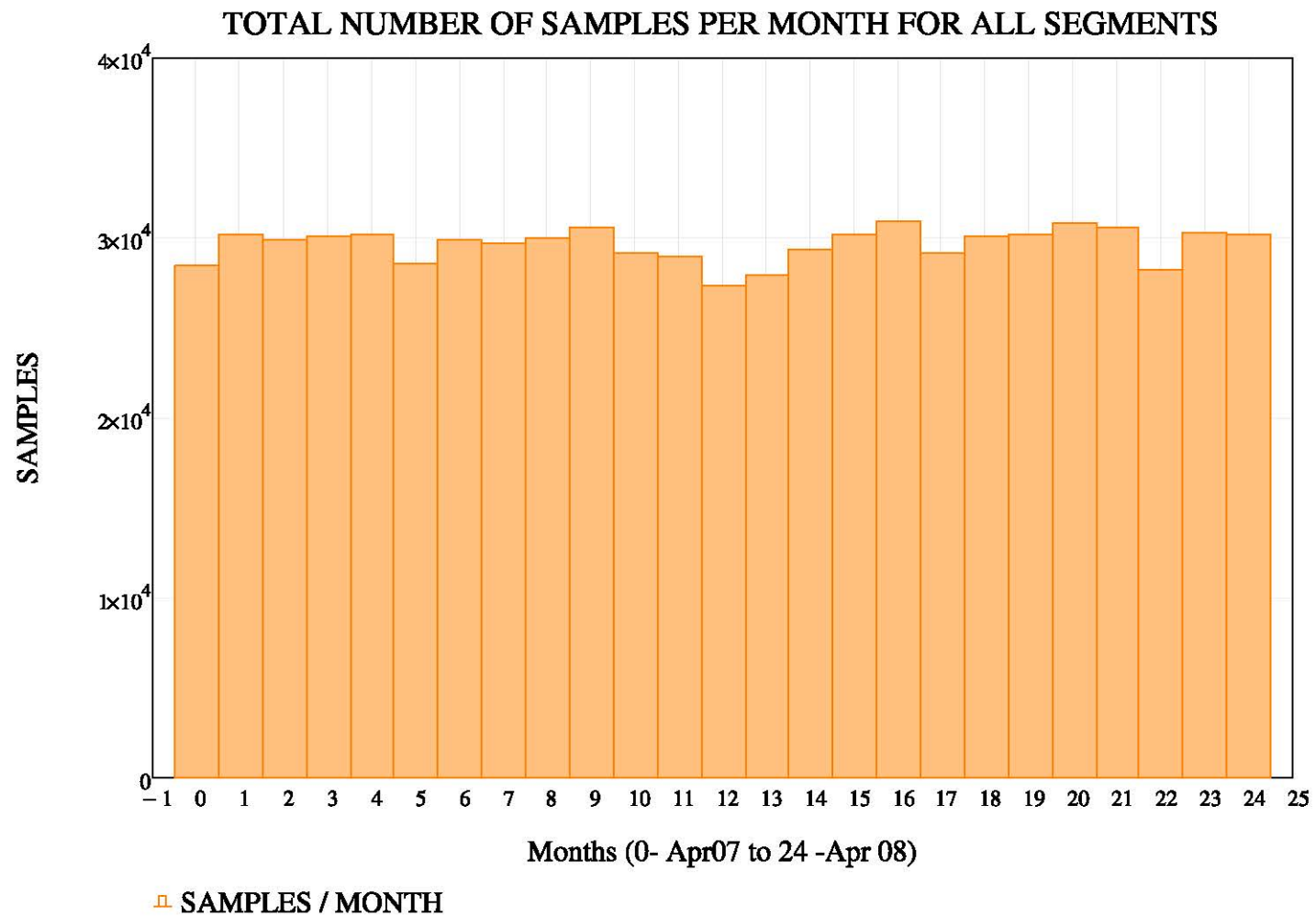












EXCEL EXPORT FUNCTION

	IN_B_1	IN_W_1	IN_R_1	IN_B_2	IN_W_2	IN_R_2	IN_B_3	IN_W_3	IN_R_3	IN_B_4	IN_W_4	IN_R_4
APR 07	87.13163	90.33667	73.3304	9.605612	5.547982	15.32085	0	0	0.308069	0	0	0
MAY 07	79.32226	82.45207	68.87503	14.48008	11.20558	20.27492	0.463345	0.017363	2.258473	0	0	0
JUN 07	75.06423	79.34822	64.13587	19.76412	20.55443	29.29098	0.0468	0.643506	0.659641	0	0	0
JUL 07	72.12802	74.49083	58.97676	11.57523	16.81885	26.64337	0.004171	0.185577	0.492197	0	0	0
AUG 07	75.29345	81.49644	70.90968	16.04636	18.33444	29.63388	0.199226	0.113801	0.742946	0	0	0.045656
SEP 07	74.2733	85.08192	71.42818	25.11042	24.56801	37.22681	0	0.333141	1.324649	0	0	0
OKT 07	73.8886	88.03261	75.67171	18.97815	17.63826	18.76784	0.40065	2.090919	1.731761	0	0	0
NOV 07	79.48307	87.17237	69.0179	14.24484	15.01953	15.69482	0.339133	0.874297	1.985248	0	0	0
DEC 07	82.59958	87.91046	68.93764	24.60428	25.08814	34.47783	0.462318	2.503586	3.736634	0	0	0
JAN 08	50.87784	72.63495	61.04232	5.626107	2.841612	12.76428	0.587406	0.027059	1.072728	0.018648	0.018648	0.018648
FEB 08	90.68509	95.35195	81.18886	7.666345	7.569144	14.81173	0.990398	0.415036	3.193245	0.158834	0	0.125177
MRT 08	86.45792	88.19642	69.93471	27.82204	25.05587	35.15814	0.164618	0.474153	0.501739	0	0	0
APR 08	69.44589	73.78952	65.95719	18.25483	17.65488	19.47416	0	0	0.005345	0	0	0
MAY 08	73.49169	79.83497	67.19619	22.02436	24.9408	31.58151	0.950403	3.366009	1.272786	0	0	0
JUN 08	75.03474	83.03873	72.0562	24.11973	23.67251	32.69887	0.650205	2.557996	0.708013	0	0	0
JUL 08	70.29468	76.3194	62.2845	19.99128	21.27959	25.93106	0.344508	2.750225	0.271173	0	0	0
AUG 08	75.24333	88.1126	70.81837	22.44951	23.86555	34.71139	1.066604	3.828481	1.589868	0.004333	0	0.021663
SEP 08	75.67232	88.01459	72.02699	24.98588	28.28264	34.98687	2.68231	8.336429	4.348414	0	0	0
OKT 08	80.43246	92.50485	74.59621	22.7618	26.6652	36.88431	0.287124	3.158359	2.253916	0	0	0.017579
NOV 08	84.62457	94.71246	83.50354	11.15945	8.781224	24.03005	0.348487	1.197501	1.842362	0	0	0
DEC 08	80.68789	86.30423	82.50866	23.61663	22.67179	37.3609	4.274145	6.790049	9.438801	0.017351	0.127241	0.520532
JAN 09	76.7489	81.73908	74.42523	5.410677	10.36181	16.86182	0.867547	1.623152	2.259606	0.005597	0.055971	0.162315
FEB 09	81.56905	91.76352	77.7831	3.230125	5.655491	8.493271	0	0	0	0	0	0
MRT 09	81.62933	89.87327	76.14921	3.392125	7.739223	11.60594	0	0	0.134448	0	0	0
APR 09	81.60711	87.667	72.86897	3.379315	7.106298	9.444758	0	0	0.025712	0	0	0
	INDEX B1	INDEX W1	INDEX R1	INDEX B2	INDEX W2	INDEX R2	INDEX B3	INDEX W3	INDEX R3	INDEX B4	INDEX W4	INDEX R4
APR 07/08	-17.6857	-16.5471	-7.3732	8.649217	12.1069	4.153303	0	0	-0.30272	0	0	0
MAY 07/08	-5.83057	-2.6171	-1.67884	7.54428	13.73523	11.30659	0.487058	3.348646	-0.98569	0	0	0
JUN 07/08	-0.0295	3.690507	7.920326	4.355618	3.118078	3.407887	0.603405	1.91449	0.048371	0	0	0

Appendix D

Eskom Trend Viewer

Figure D.1 to D.4 shows screen shots of Eskom's trend viewer, used to extract recorded network data from their data base.

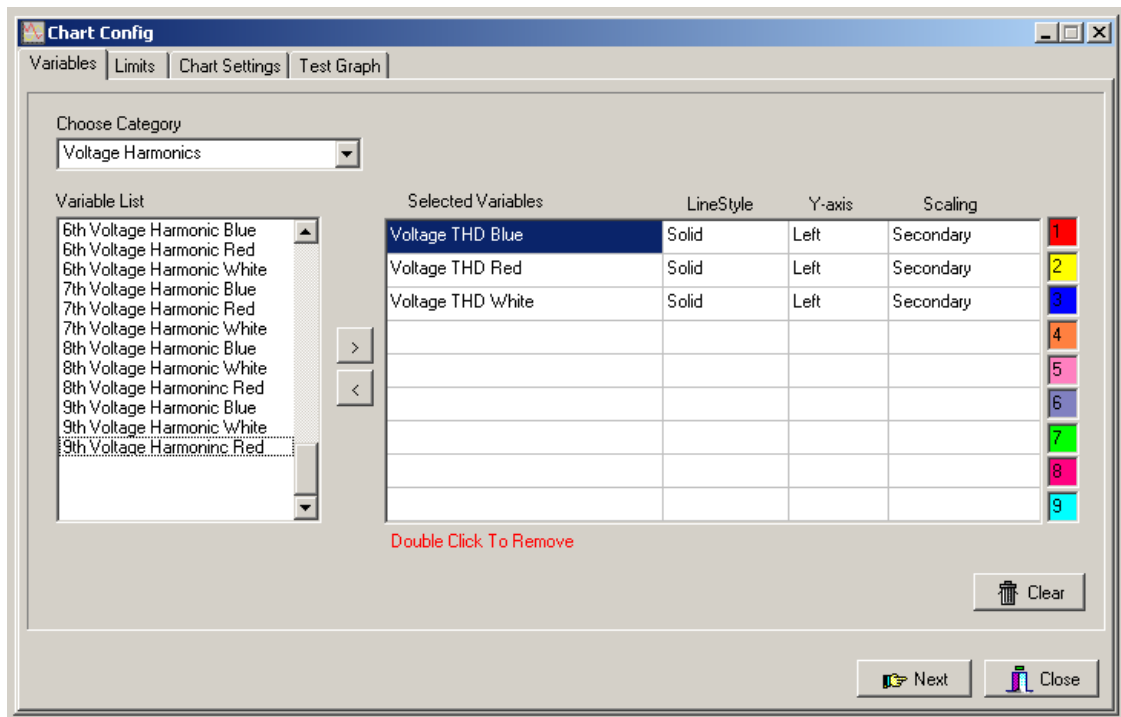


Figure D.1: Trend viewer – Chart configuration.

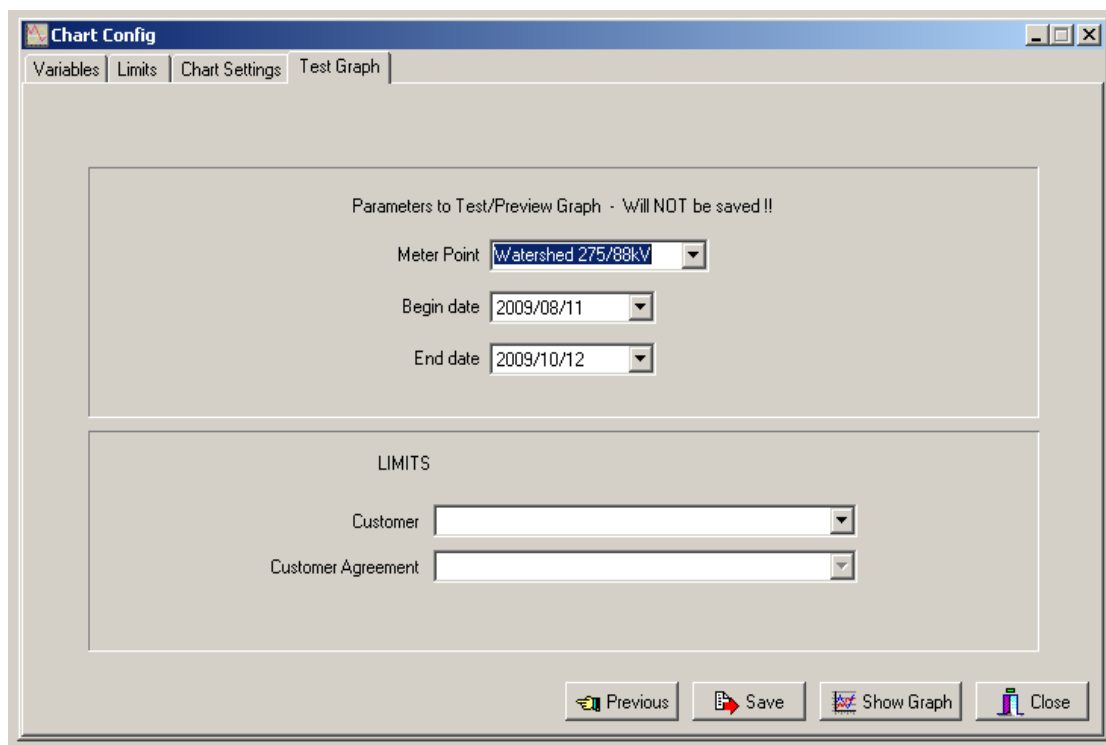


Figure D.2: Trend viewer – Substation selection.

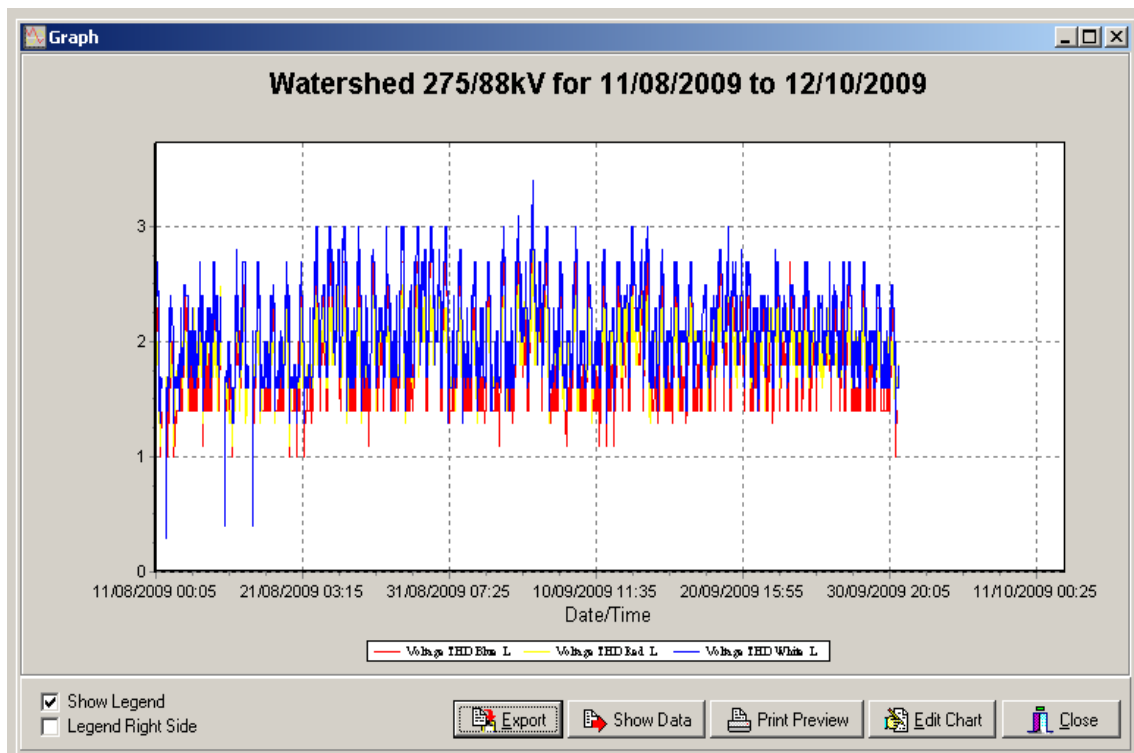


Figure D.3: Trend viewer – Results.

Data for Variables: SLOT_DT - THD_BLUE - THD_RED - THD_WHITE Meterpoint: Watershed 275/88kV

SLOT_DT	THD_BLUE	THD_RED	THD_WHITE
2009/08/11	2.1	1.8	2.3
2009/08/11	2.1	1.8	2.4
2009/08/11	2.1	2	2.4
2009/08/11	2.1	2	2.5
2009/08/11	2.3	2	2.5
2009/08/11	2.1	2	2.5
2009/08/11	2.3	2	2.5
2009/08/11	2.3	2	2.7
2009/08/11	2.1	2	2.7
2009/08/11	2.1	2	2.7
2009/08/11	2.3	2	2.7
2009/08/11	2.3	2	2.7
2009/08/11	2.3	1.8	2.5
2009/08/11	2.3	1.8	2.4
2009/08/11	2.1	1.8	2.4
2009/08/11	2.3	2	2.4
2009/08/11	2.3	2	2.5
2009/08/11	2.3	2	2.5
2009/08/11	2.1	2	2.5
2009/08/11	2.1	1.8	2.5
2009/08/11	2.1	1.8	2.5

Figure D.4: Trend viewer – Results in export format.

Appendix E

Example of Census 2001 data

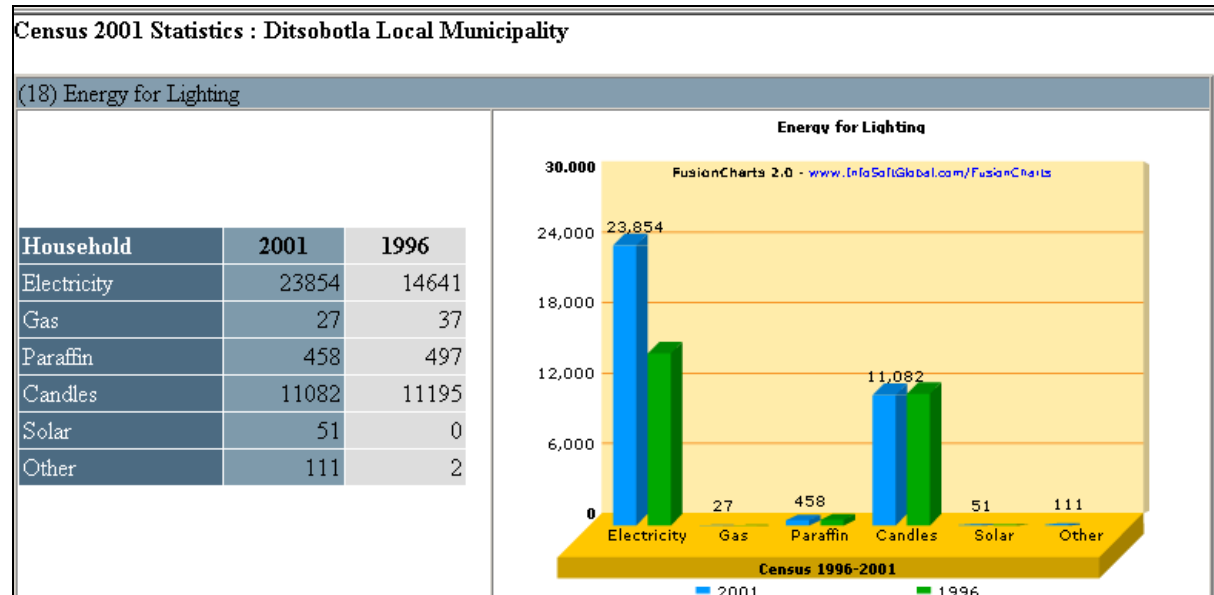


Figure E.1: Census data 2001 – Ditsobotla local municipality.

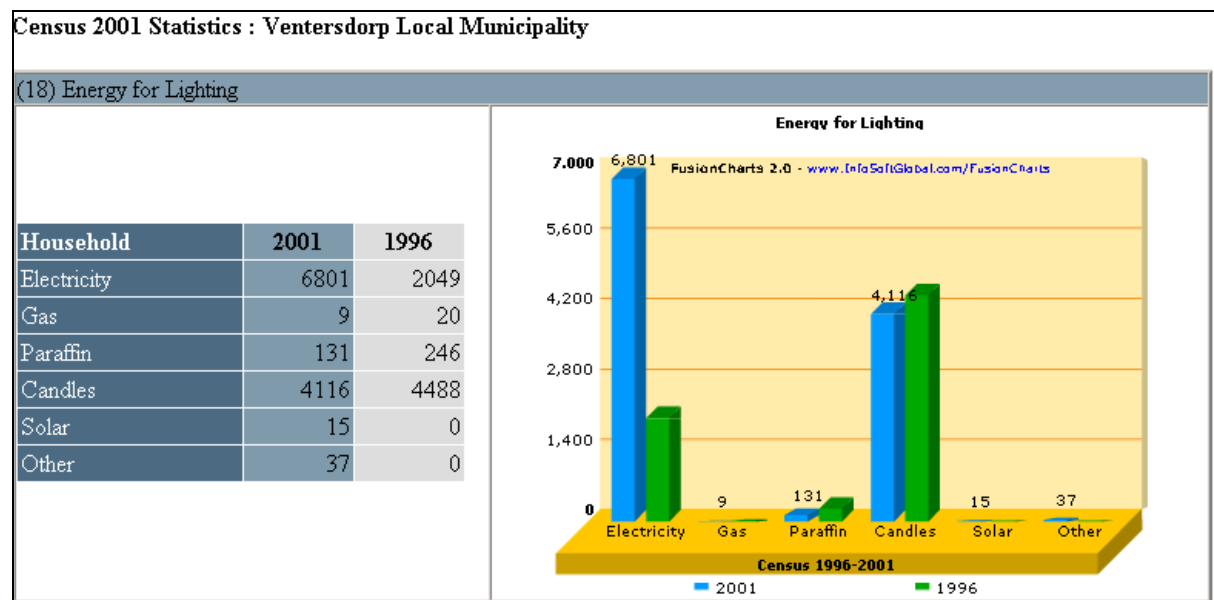


Figure E.2: Census data 2001 – Venterdorp local municipality.