

Anexos

Anexo digital

En la versión digital de la tesis, el Anexo digital se encuentra al final del documento, después de la bibliografía.

A. Archivos de entrada para el programa WAPO_V4 con las diferentes condiciones de oleaje

A continuación se presentan los archivos de entrada en los que se establecieron diferentes condiciones para dar lugar a un total de 24 combinaciones correspondientes únicamente al oleaje simulado.

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0        PERIOD (SEC)
  1.0        INCIDENT WAVE AMPLITUDE
-22.5       ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
  0.1        MINIMUM WATER DEPTH CONSIDERED AS A WATER
  0.0        TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES
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Figura A. 1 Archivo de entrada KA01WAP.INP, H= 2 (m), $\theta = -22.5^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
1.0       INCIDENT WAVE AMPLITUDE
-22.5     ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1      MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0      TIDAL LEVEL (M)
1        NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1   1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1  251 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1  601 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1  601 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1  251 VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1   1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 2 Archivo de entrada KA02WAP.INP, H= 2 (m), $\theta = -22.5^\circ$, T= 12 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0     PERIOD (SEC)
2.0      INCIDENT WAVE AMPLITUDE
-22.5    ANGLE
1        BREAKING (YES = 1, NO = 0)
1        WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1      MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0      TIDAL LEVEL (M)
1        NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1   1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1  251 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1  601 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1  601 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1  251 VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1   1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 3 Archivo de entrada KA03WAP.INP, H= 4 (m), $\theta = -22.5^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0        PERIOD (SEC)
  2.0        INCIDENT WAVE AMPLITUDE
-22.5       ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1         MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0         TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 4 Archivo de entrada KA04WAP.INP, H= 4 (m), $\theta = -22.5^\circ$, T= 12 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0        PERIOD (SEC)
  1.0        INCIDENT WAVE AMPLITUDE
  0.0        ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1         MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0         TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 5 Archivo de entrada KA05WAP.INP, H= 2 (m), $\theta = 0^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
1.0       INCIDENT WAVE AMPLITUDE
0.0       ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 6 Archivo de entrada KA06WAP.INP, H= 2 (m), $\theta= 0^\circ$, T= 12 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0     PERIOD (SEC)
2.0      INCIDENT WAVE AMPLITUDE
0.0      ANGLE
1        BREAKING (YES = 1, NO = 0)
1        WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1      MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0      TIDAL LEVEL (M)
1        NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 7 Archivo de entrada KA07WAP.INP, H= 4 (m), $\theta= 0^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
2.0       INCIDENT WAVE AMPLITUDE
0.0       ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 8 Archivo de entrada KA08WAP.INP, H= 4 (m), $\theta= 0^\circ$, T= 12 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0      PERIOD (SEC)
1.0       INCIDENT WAVE AMPLITUDE
22.5      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 9 Archivo de entrada KA09WAP.INP, H= 2 (m), $\theta= 22.5^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
1.0       INCIDENT WAVE AMPLITUDE
22.5      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 10 Archivo de entrada KA10WAP.INP, H= 2 (m), $\theta= 22.5^\circ$, T= 12 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0      PERIOD (SEC)
2.0       INCIDENT WAVE AMPLITUDE
22.5      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 11 Archivo de entrada KA11WAP.INP, H= 4 (m), $\theta= 22.5^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
2.0       INCIDENT WAVE AMPLITUDE
22.5      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 12 Archivo de entrada KA12WAP.INP, H= 4 (m), $\theta= 22.5^\circ$, T= 12 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0      PERIOD (SEC)
1.0       INCIDENT WAVE AMPLITUDE
45.0      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

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Figura A. 13 Archivo de entrada KA13WAP.INP, H= 2 (m), $\theta= 45^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
1.0       INCIDENT WAVE AMPLITUDE
45.0      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 14 Archivo de entrada KA14WAP.INP, H= 2 (m), $\theta= 45^\circ$, T= 12 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0      PERIOD (SEC)
2.0       INCIDENT WAVE AMPLITUDE
45.0      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 15 Archivo de entrada KA15WAP.INP, H= 4 (m), $\theta= 45^\circ$, T= 10 (s)


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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
2.0       INCIDENT WAVE AMPLITUDE
45.0      ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 16 Archivo de entrada KA16WAP.INP, H= 4 (m), $\theta= 45^\circ$, T= 12 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0      PERIOD (SEC)
0.5       INCIDENT WAVE AMPLITUDE
-22.5     ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 17 Archivo de entrada KA17WAP.INP, H= 1 (m), $\theta= -22.5^\circ$, T= 10 (s)

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VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0      PERIOD (SEC)
0.5       INCIDENT WAVE AMPLITUDE
-22.5     ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 18 Archivo de entrada KA18WAP.INP, H= 1 (m), $\theta = -22.5^\circ$, T= 12 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0      PERIOD (SEC)
0.5       INCIDENT WAVE AMPLITUDE
0.0       ANGLE
1         BREAKING (YES = 1, NO = 0)
1         WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1       MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0       TIDAL LEVEL (M)
1         NUMBER OF DIFFERENTS FRICTION AREAS
0.0 1 1 601 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0 1 251 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0 1 601 ,VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0 1 251 VALUE AND RECTANGULAR COORDINATES
1         NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3 1 1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 19 Archivo de entrada KA19WAP.INP, H= 1 (m), $\theta = 0^\circ$, T= 10 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0        PERIOD (SEC)
  0.5        INCIDENT WAVE AMPLITUDE
  0.0        ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
  0.1        MINIMUM WATER DEPTH CONSIDERED AS A WATER
  0.0        TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 20 Archivo de entrada KA20WAP.INP, H= 1 (m), $\theta= 0^\circ$, T= 12 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0        PERIOD (SEC)
  0.5        INCIDENT WAVE AMPLITUDE
22.5        ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
  0.1        MINIMUM WATER DEPTH CONSIDERED AS A WATER
  0.0        TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 21 Archivo de entrada KA21WAP.INP, H= 1 (m), $\theta= 22.5^\circ$, T= 10 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
12.0        PERIOD (SEC)
  0.5        INCIDENT WAVE AMPLITUDE
22.5        ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1         MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0         TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 22 Archivo de entrada KA22WAP.INP, H= 1 (m), $\theta= 22.5^\circ$, T= 12 (s)

```

VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),
WAPO+REFDIF(5,6,7,8)
  3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)
10.0        PERIOD (SEC)
  0.5        INCIDENT WAVE AMPLITUDE
45.0        ANGLE
  1          BREAKING (YES = 1, NO = 0)
  1          WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)
0.1         MINIMUM WATER DEPTH CONSIDERED AS A WATER
0.0         TIDAL LEVEL (M)
  1          NUMBER OF DIFFERENTS FRICTION AREAS
0.0  1      1 601 251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP
0.0  1      251 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT
0.0  1      601 ,VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.0  1      251 VALUE AND RECTANGULAR COORDINATES
  1          NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM
0.3  1      1 601 251 VALUE AND RECTANGULAR COORDINATES

```

Figura A. 23 Archivo de entrada KA23WAP.INP, H= 1 (m), $\theta= 45^\circ$, T= 10 (s)

```
VERSION - JUNE 2009 - Boundaries (1=NORTH,2=WEST,3=EAST,4=SOUTH),  
WAPO+REFDIF(5,6,7,8)  
3          IDs: REFDIF(11=NORTE,12=OESTE,13=ESTE,14=SUR)  
12.0      PERIOD (SEC)  
0.5      INCIDENT WAVE AMPLITUDE  
45.0     ANGLE  
1        BREAKING (YES = 1, NO = 0)  
1        WAVENUMBER APPROXIMATION (LINEAR=1, HEDGES = 2)  
0.1      MINIMUM WATER DEPTH CONSIDERED AS A WATER  
0.0      TIDAL LEVEL (M)  
1        NUMBER OF DIFFERENTS FRICTION AREAS  
0.0  1    1 601 251 ,VALUE AND RECTANGULAR COORDINATES  
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS TOP  
0.0  1    251 ,VALUE AND RECTANGULAR COORDINATES  
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS LEFT  
0.0  1    601 ,VALUE AND RECTANGULAR COORDINATES  
1        NUMBER OF DIFFERENTS REFLECTION COEF. AREAS RIGHT  
0.0  1    601 ,VALUE AND RECTANGULAR COORDINATES  
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM  
0.0  1    251 VALUE AND RECTANGULAR COORDINATES  
1        NUMBER OF DIFFERENTS REFLECTION COEF AREAS BOTTOM  
0.3  1    1 601 251 VALUE AND RECTANGULAR COORDINATES
```

Figura A. 24 Archivo de entrada KA24WAP.INP, H= 1 (m), $\theta= 45^\circ$, T= 12 (s)

