Mario Arroyo-Solórzano
Impacto de tsunamis en Puerto Viejo, Limón, Tortuguero y Manuel Antonio mediante modelado numérico de
grandes terremotos en el Caribe y Pacífico Central-Sur de Costa Rica

ANEXOS

Anexo 1. *Parámetros generales del archivo "comcot.ctl de configu-*
ración de los escenarios modelados

```
###################################################
#                                                 #
# Control file for COMCOT program (v1.7)          #
#                                                 #
###################################################
#--+-----1----+----2----+----3----+----4----+----5----+----6----+----7----+----8
#==========================================:===============================
# General Parameters for Simulation        : Value Field                   |
#==========================================:===============================
#Job Description: NZ30sec bathymetry, Spherical Coordinates for code testing
 Total run time (Wall clock, seconds)       : 10800.000
 Time interval to Save Data    ( unit: sec ) :    60.0
 Output Zmax & TS (0-Max Z;1-Timeseries;2-Both) :    2
 Start Type (0-Cold start; 1-Hot start)     :    0
 Resuming Time If hot start (Seconds)       :  800.00
 Specify Min WaterDepth offshore  (meter)   :    0.00
 Initial Cond. (0:FLT,1:File,2:WM,3:LS,4:FLT+LS):    0
 Specify BC   (0-Open;1-Sponge;2-Wall;3-FACTS):    0
 Specify Input Z filename (for BC=3, FACTS) : mw94_n22_nz_ha.xyt
 Specify Input U filename (for BC=3, FACTS) : mw94_n22_nz_ua.xyt
 Specify Input V filename (for BC=3, FACTS) : mw94_n22_nz_va.xyt
```

Anexo 2. *Parámetros de fuente sísmica del archivo "comcot.ctl"*
para el escenario de Limón sur en el Caribe de Costa Rica.

```
#==========================================:===============================
# Parameters for Fault Model (Segment 01)   :Values                        |
#==========================================:===============================
 No. of FLT Planes (With fault_multi.ctl if >1) :    1
 Fault Rupture Time (seconds)               :    0.0
 Faulting Option (0: Model; 1- Data;)       :    0
 Focal Depth                       (meter): 12000.000
 Length of source area             (meter): 150000.000
 Width of source area              (meter):  45000.000
 Dislocation of fault plate        (meter):     4.200
 Strike direction (theta)          (degree): 122.000
 Dip  angle       (delta)          (degree):  25.000
 Slip angle       (lamda)          (degree):  90.000
 Origin of Comp. Domain (Layer 01) (Lat, degree):    9.9
 Origin of Comp. Domain (Layer 01) (Lon, degree):  -83.7
 Epicenter: Latitude               (degree):    9.53
 Epicenter: Longitude              (degree):  -82.44
 File Name of Deformation Data              : segment_parameter.dat
 Data Format Option (0-COMCOT; 1-MOST; 2-XYZ) :    2
```

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Anexo 3. *Parámetros de fuente sísmica del archivo "comcot.ctl"*
para el escenario del Escarpe de Hess en el Caribe de Costa Rica.

```
#=========================================:=====================================
# Parameters for Fault Model (Segment 01)        :Values                        |
#=========================================:=====================================
No. of FLT Planes (With fault_multi.ctl if >1) :    1
Fault Rupture Time (seconds)                   :    0.0
Faulting Option (0: Model; 1- Data;)           :    0
Focal Depth                          (meter):   16000.000
Length of source area                (meter):  110000.000
Width of source area                 (meter):   40000.000
Dislocation of fault plate           (meter):       2.500
Strike direction (theta)            (degree):      50.000
Dip  angle        (delta)           (degree):      45.000
Slip angle        (lamda)           (degree):     -50.000
Origin of Comp. Domain (Layer 01) (Lat, degree):   10.85
Origin of Comp. Domain (Layer 01) (Lon, degree):  -83.25
Epicenter: Latitude                 (degree):      11.14
Epicenter: Longitude                (degree):     -83.00
File Name of Deformation Data                : segment_parameter.dat
Data Format Option (0-COMCOT; 1-MOST; 2-XYZ) :    2
```

Anexo 4. *Parámetros generales y de fuente sísmica del archivo "com-*
cot.ctl" para el escenario del Pacífico Sur-Central de Costa Rica.

```
#=========================================:=====================================
# Parameters for Fault Model (Segment 01)        :Values                        |
#=========================================:=====================================
No. of FLT Planes (With fault_multi.ctl if >1) :    1
Fault Rupture Time (seconds)                   :    0.0
Faulting Option (0: Model; 1- Data;)           :    0
Focal Depth                          (meter):   12000.000
Length of source area                (meter):  160000.000
Width of source area                 (meter):   95000.000
Dislocation of fault plate           (meter):       6.500
Strike direction (theta)            (degree):     300.000
Dip  angle        (delta)           (degree):      30.000
Slip angle        (lamda)           (degree):      90.000
Origin of Comp. Domain (Layer 01) (Lat, degree):    9.2
Origin of Comp. Domain (Layer 01) (Lon, degree):  -85.0
Epicenter: Latitude                 (degree):       8.72
Epicenter: Longitude                (degree):     -83.65
File Name of Deformation Data                : segment_parameter.dat
Data Format Option (0-COMCOT; 1-MOST; 2-XYZ) :    2
```