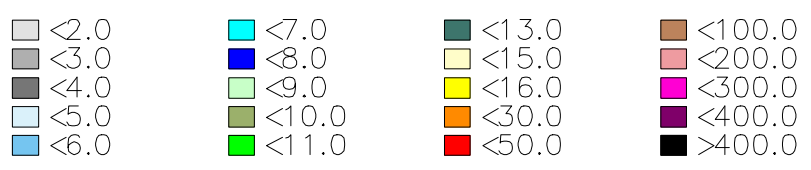
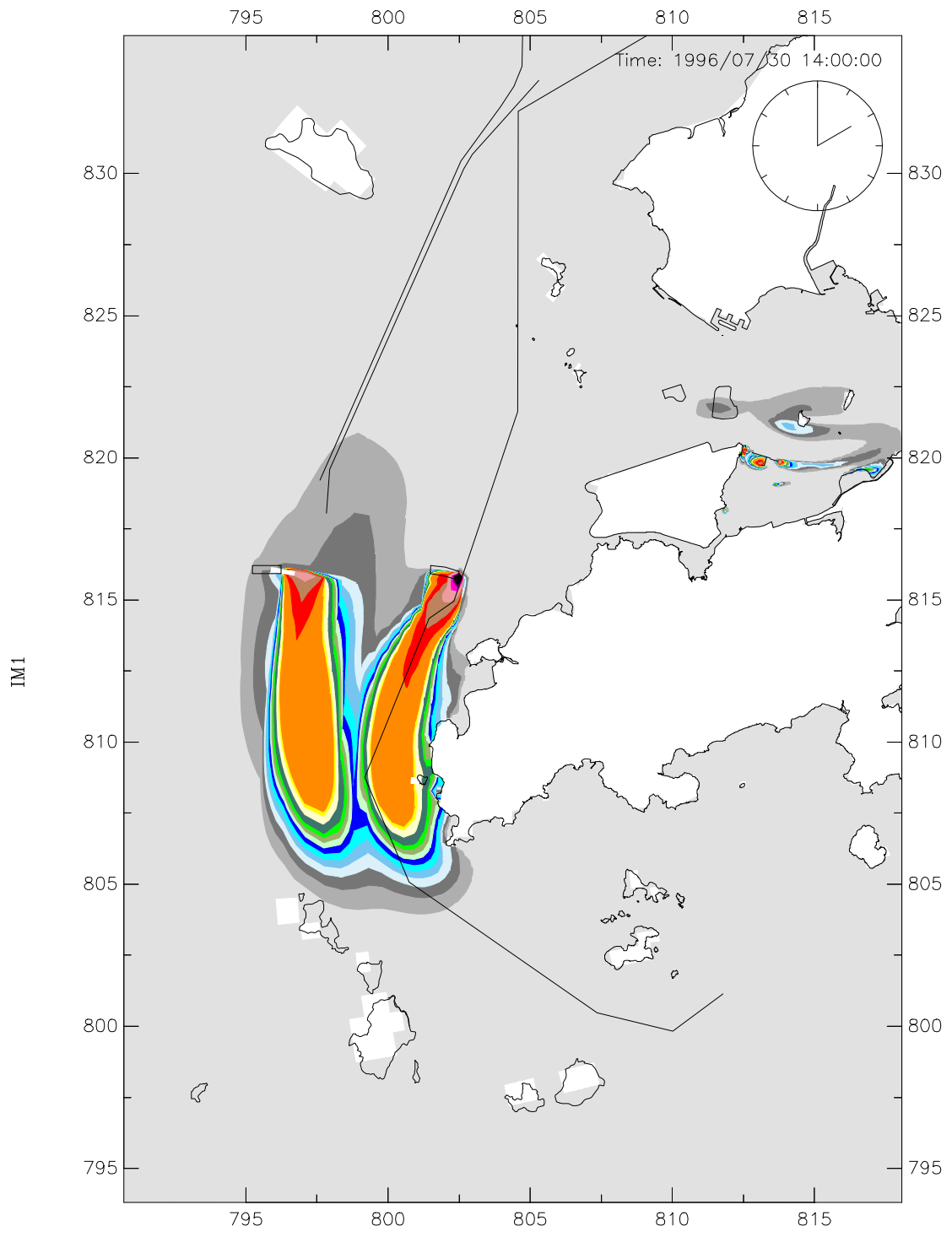


APPENDIX 9D12

**Sensitivity Test for
TSHD High Overflow
Scenario in PRD**

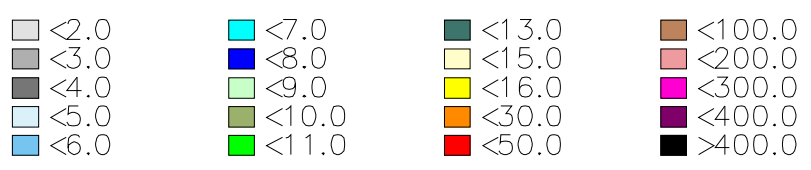
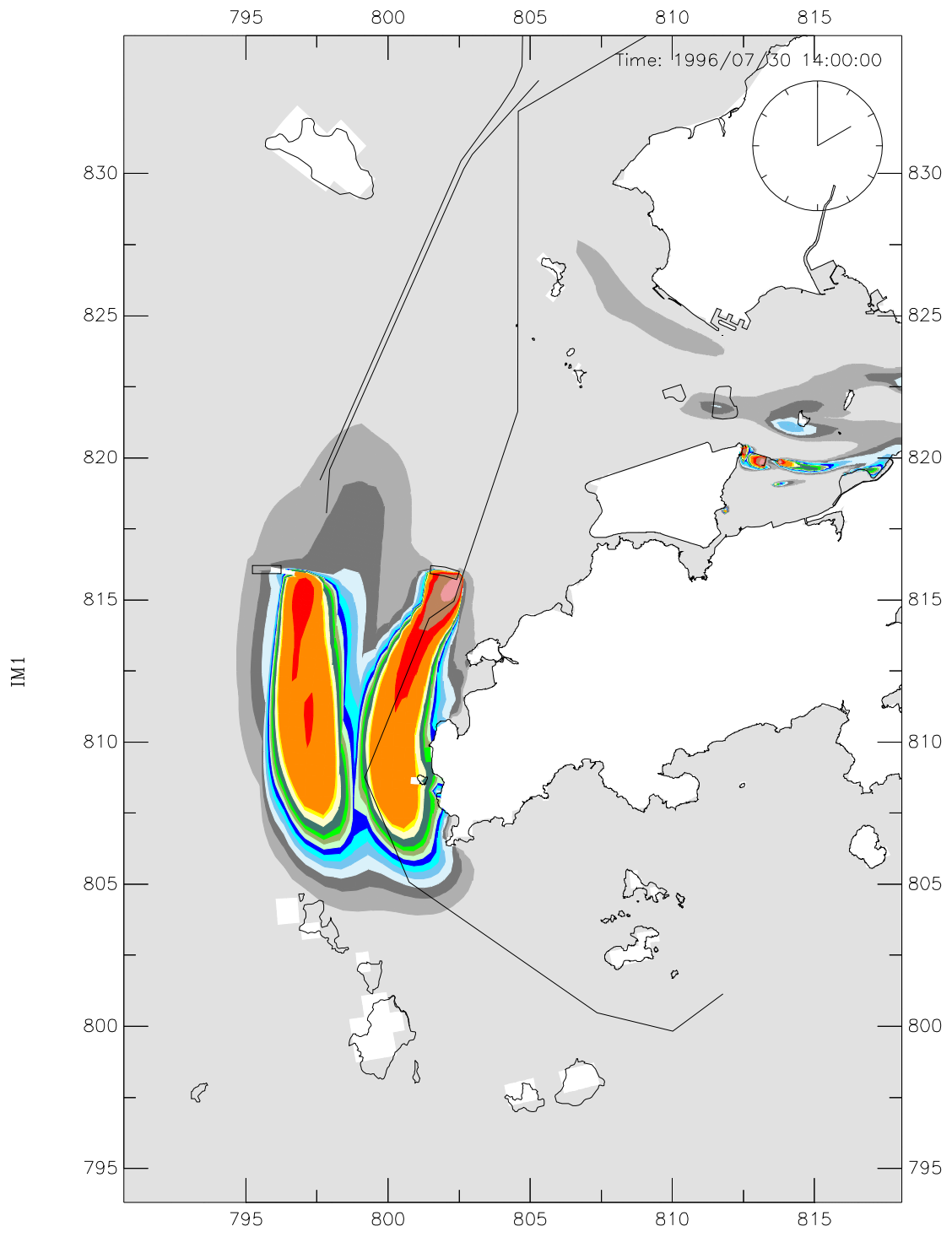
Appendix 9D12a - Figure List	
Figure No.	Description
001	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Surface Layer Peak Ebb (Speed) Tide
002	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Mid-Depth Peak Ebb (Speed) Tide
003	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Bottom Layer Peak Ebb (Speed) Tide
004	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Surface Layer Peak Flood (Speed) Tide
005	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Mid-Depth Peak Flood (Speed) Tide
006	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Bottom Layer Peak Flood (Speed) Tide
007	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Surface Layer Peak Ebb (Speed) Tide
008	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Mid-Depth Peak Ebb (Speed) Tide
009	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Bottom Layer Peak Ebb (Speed) Tide
010	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Surface Layer Peak Flood (Speed) Tide
011	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Mid-Depth Peak Flood (Speed) Tide
012	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Bottom Layer Peak Flood (Speed) Tide
013	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Surface Layer Spring Tide, Lowest Low Water Level
014	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Mid-Depth Spring Tide, Lowest Low Water Level
015	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Bottom Layer Spring Tide, Lowest Low Water Level
016	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Surface Layer Spring Tide, Highest High Water Level
017	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Mid-Depth Spring Tide, Highest High Water Level
018	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Bottom Layer Spring Tide, Highest High Water Level
019	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Surface Layer Spring Tide, Lowest Low Water Level
020	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Mid-Depth Spring Tide, Lowest Low Water Level
021	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Bottom Layer Spring Tide, Lowest Low Water Level
022	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Surface Layer Spring Tide, Highest High Water Level

Figure No.	Description
023	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Mid-Depth Spring Tide, Highest High Water Level
024	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Bottom Layer Spring Tide, Highest High Water Level
025	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Surface Layer Neap Tide, Lowest Low Water Level
026	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Mid-Depth Neap Tide, Lowest Low Water Level
027	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Bottom Layer Neap Tide, Lowest Low Water Level
028	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Surface Layer Neap Tide, Highest High Water Level
029	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Mid-Depth Neap Tide, Highest High Water Level
030	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Dry Season, Bottom Layer Neap Tide, Highest High Water Level
031	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Surface Layer Neap Tide, Lowest Low Water Level
032	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Mid-Depth Neap Tide, Lowest Low Water Level
033	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Bottom Layer Neap Tide, Lowest Low Water Level
034	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Surface Layer Neap Tide, Highest High Water Level
035	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Mid-Depth Neap Tide, Highest High Water Level
036	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (mg/L) Contour, Wet Season, Bottom Layer Neap Tide, Highest High Water Level
037	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (g/m ²) Contour, Dry Season Total Deposition
038	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (g/m ² /day) Contour, Dry Season Daily Average Deposition
039	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (g/m ²) Contour, Wet Season Total Deposition
040	Year 2011, HZMB High Surface Overflow Sensitivity Test SS (g/m ² /day) Contour, Wet Season Daily Average Deposition



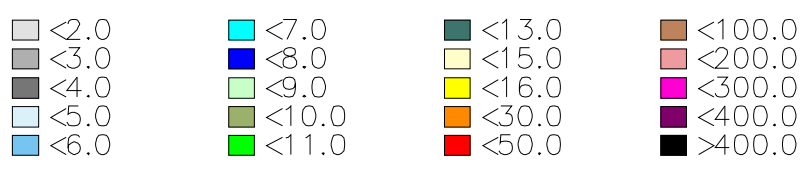
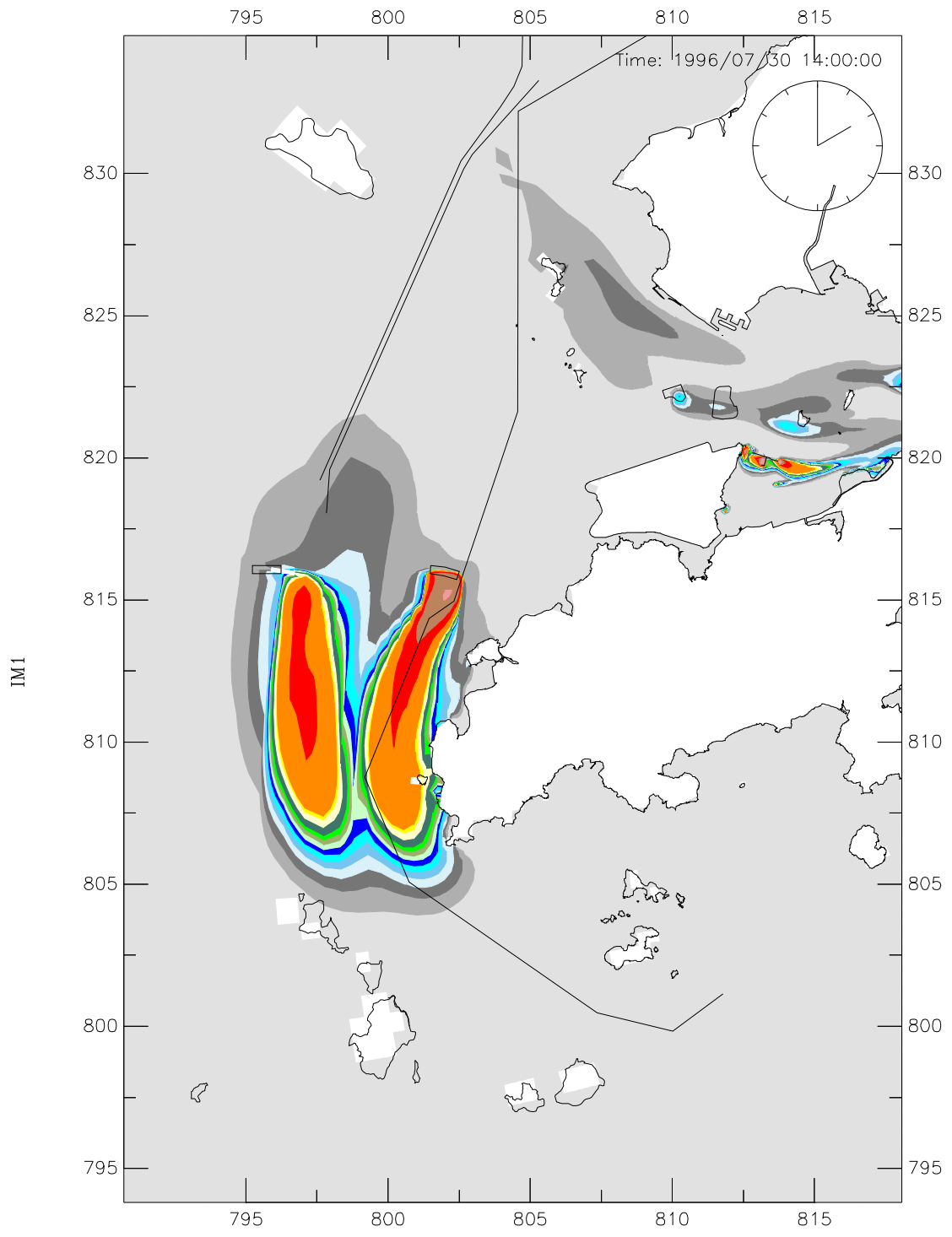
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Surface Layer
 Peak Ebb

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 001



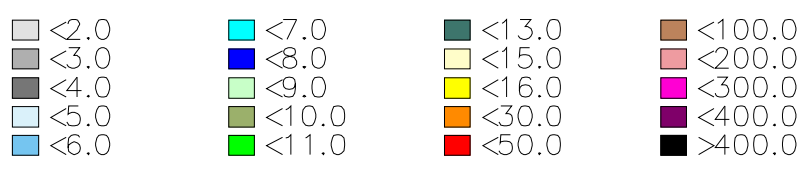
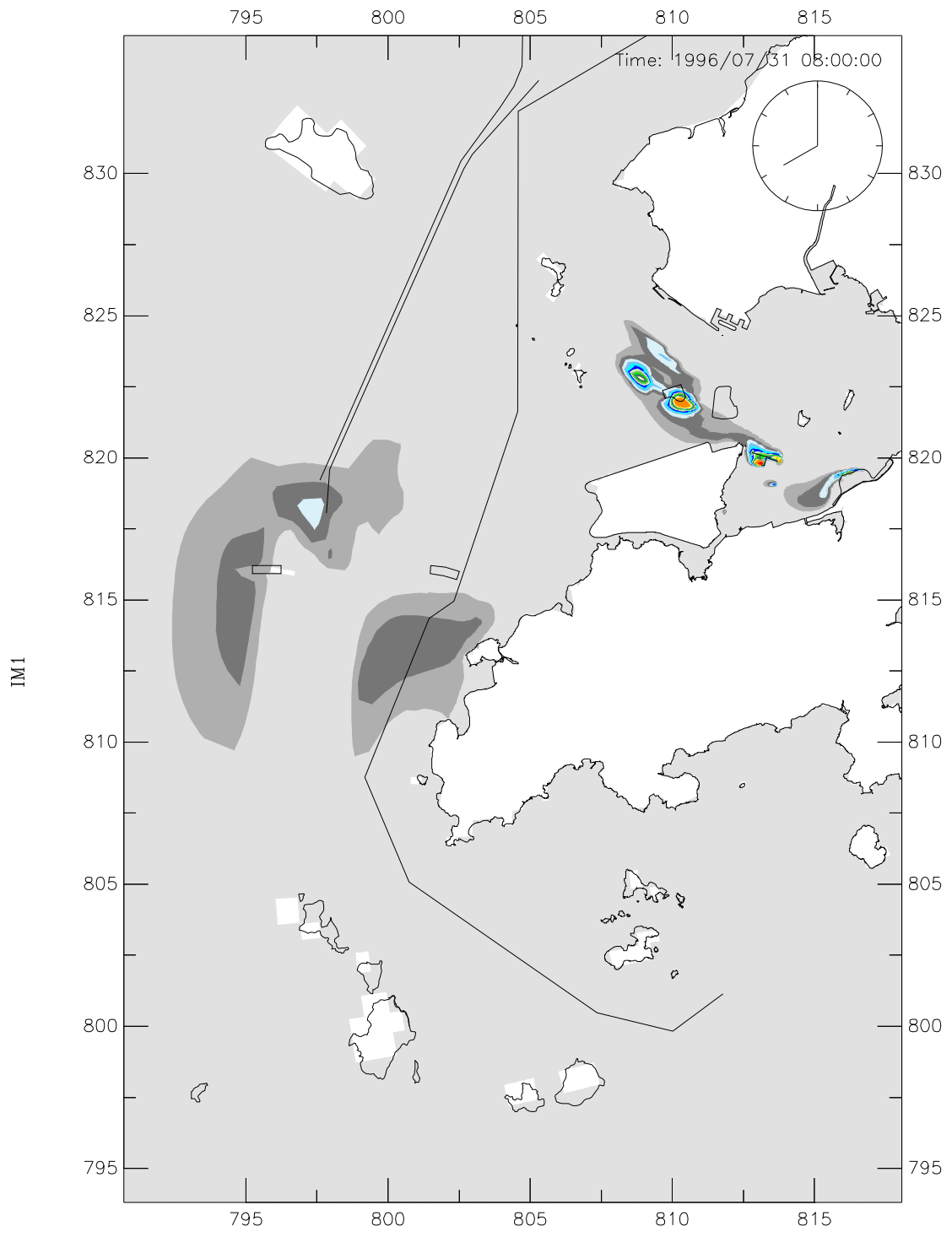
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Mid-Depth
 Peak Ebb

July 2009
 2011-5P-Dry (PXM1-R11g)
 Figure 002



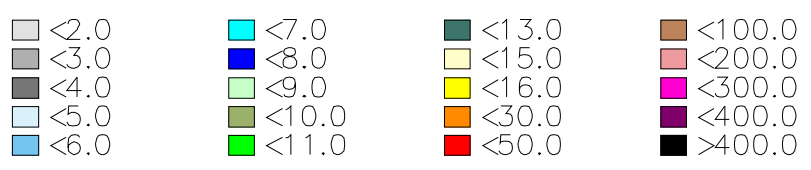
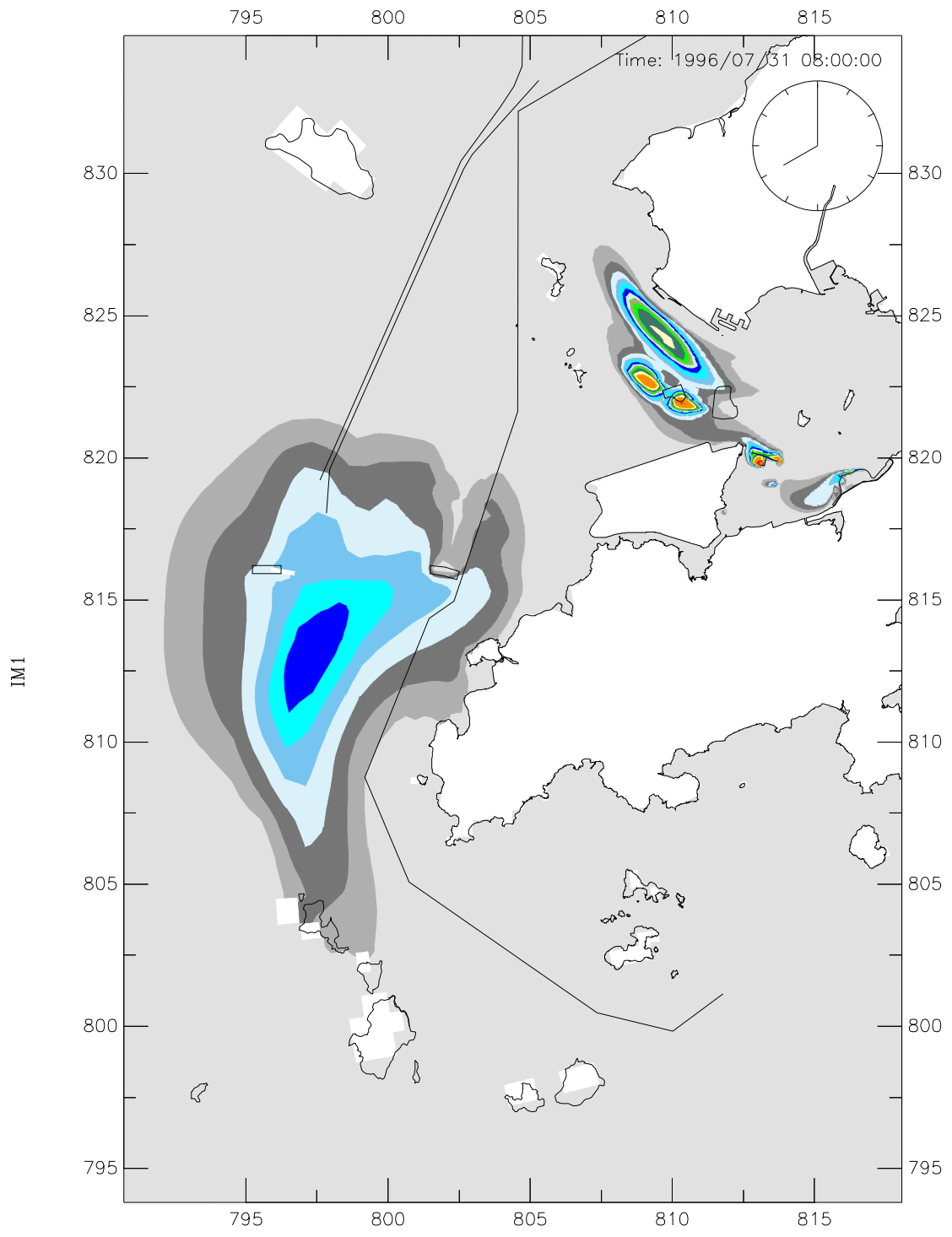
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Bottom Layer
 Peak Ebb

July 2009
 2011-5P-Dry (PXM1-R11g)
 Figure 003



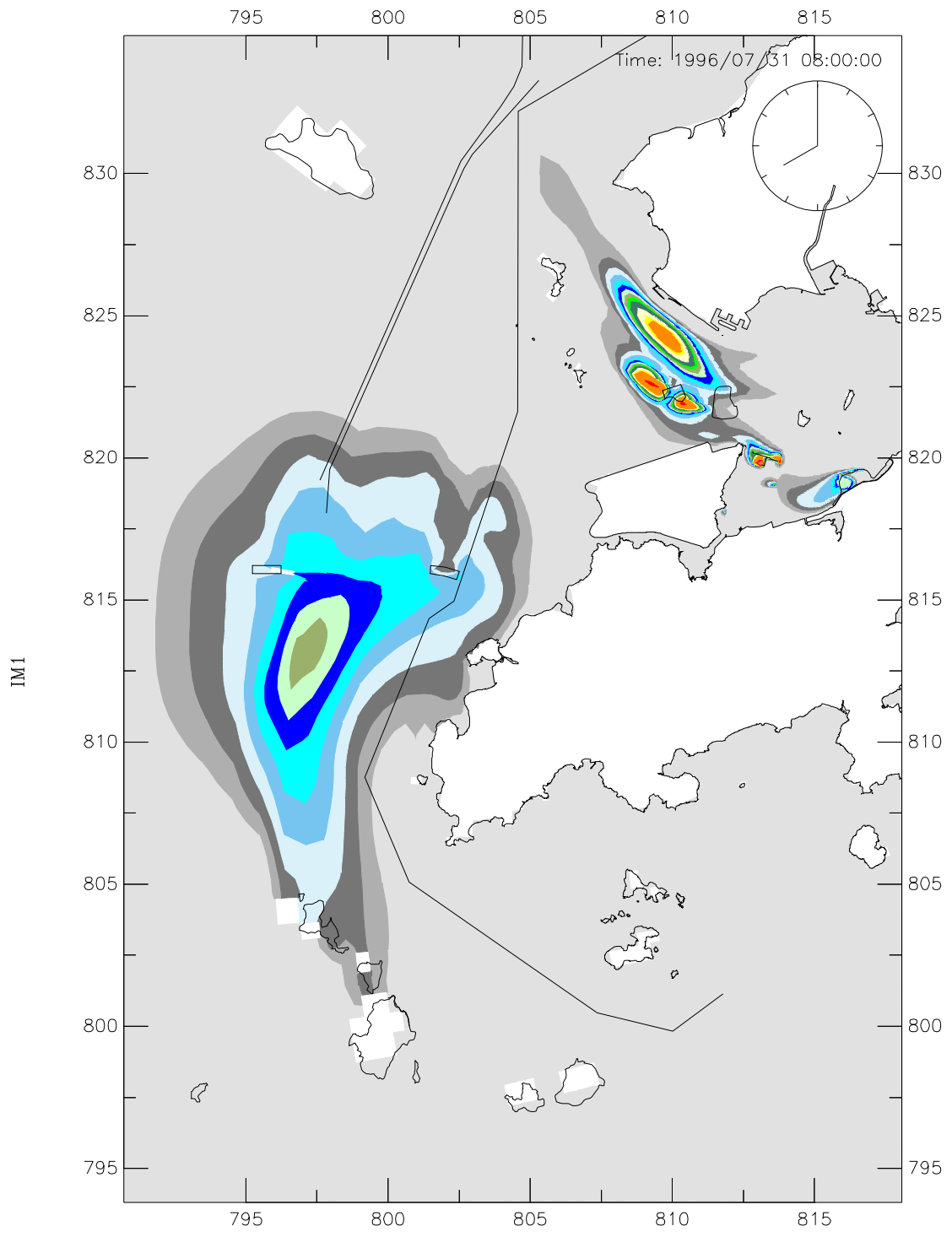
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Surface Layer
 Peak Flood

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 004



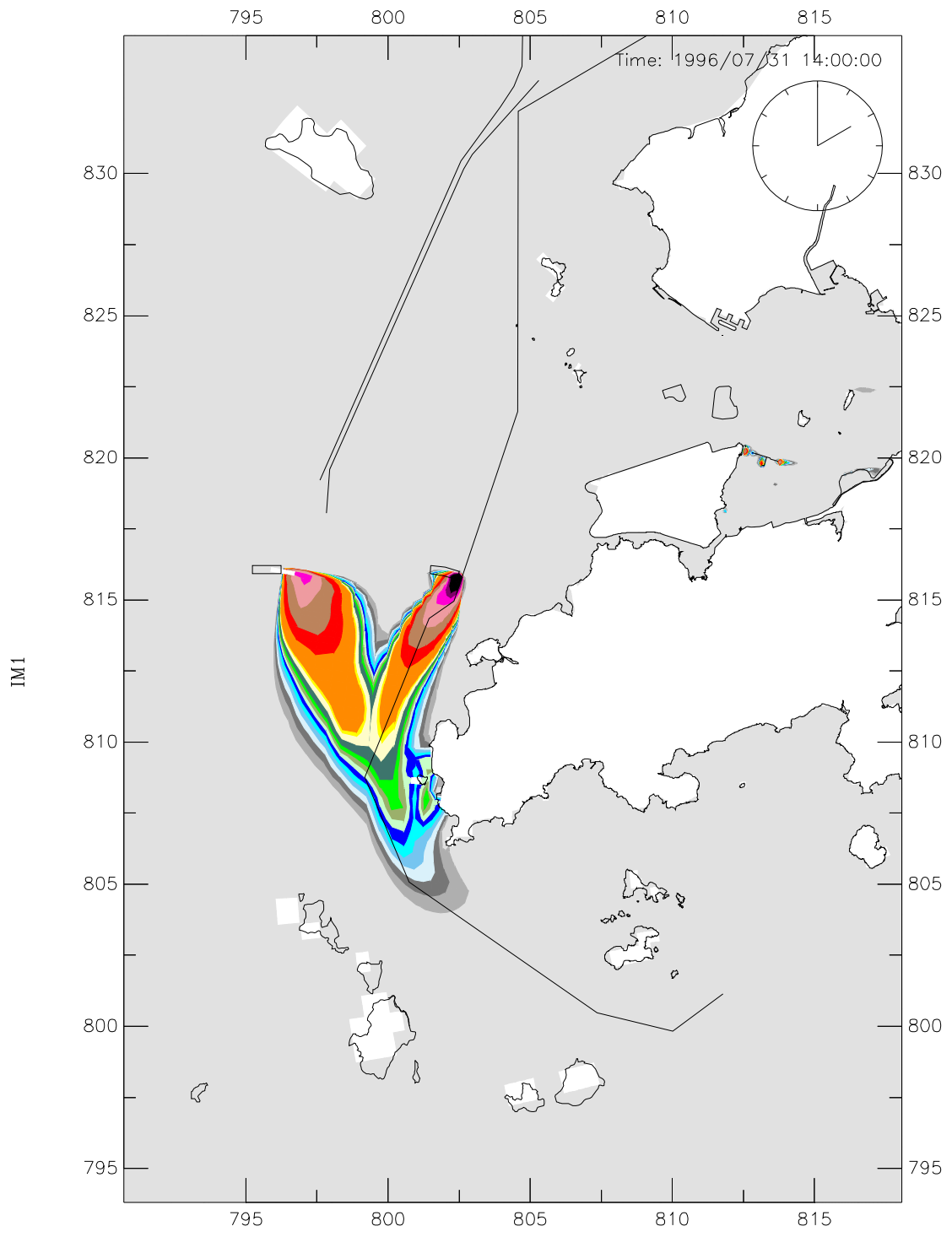
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Mid-Depth
 Peak Flood

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 005



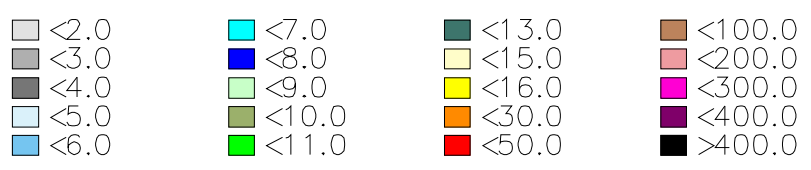
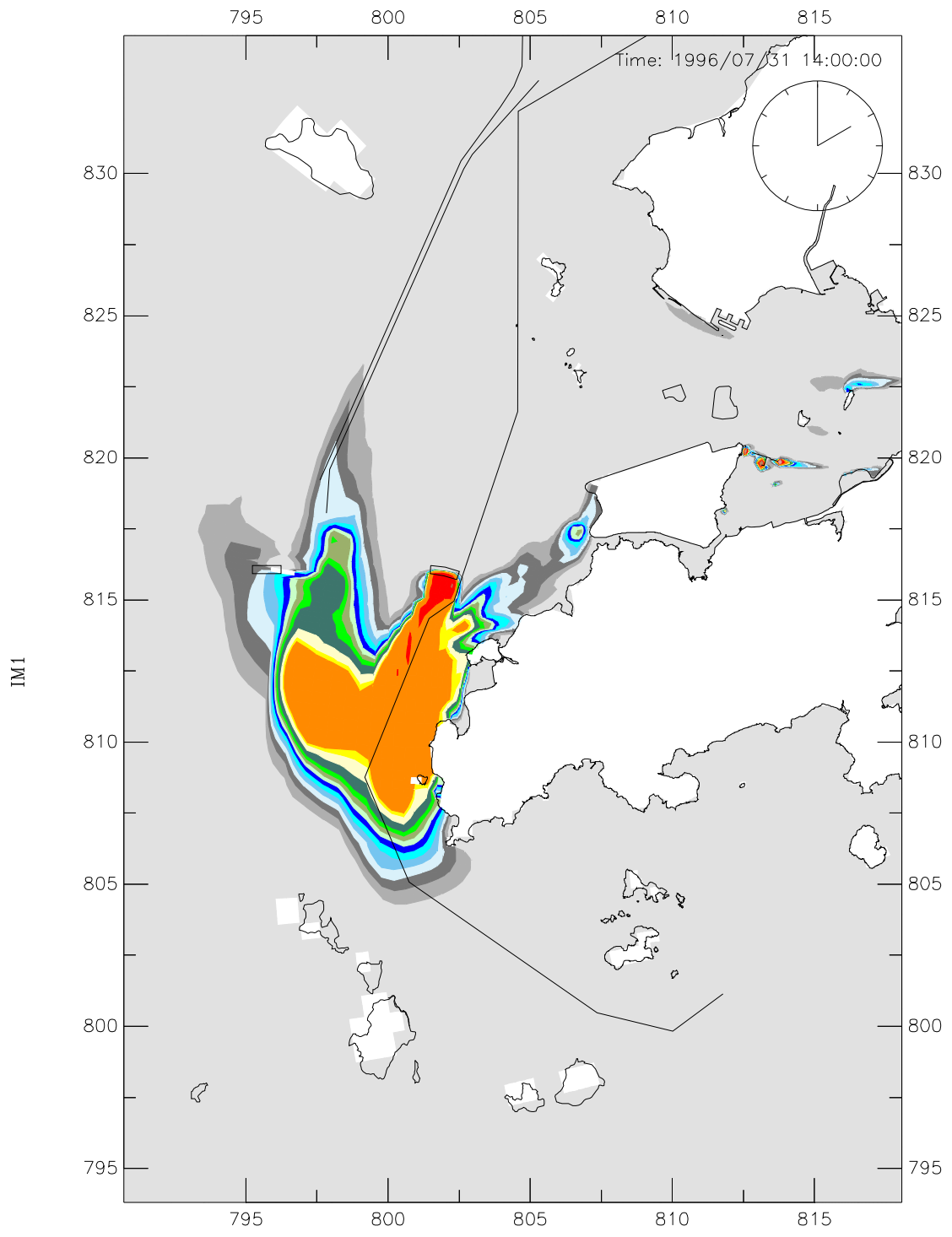
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Bottom Layer
 Peak Flood

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 006



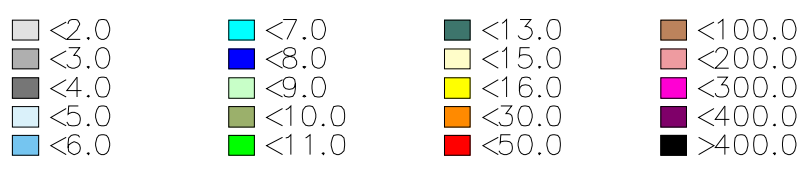
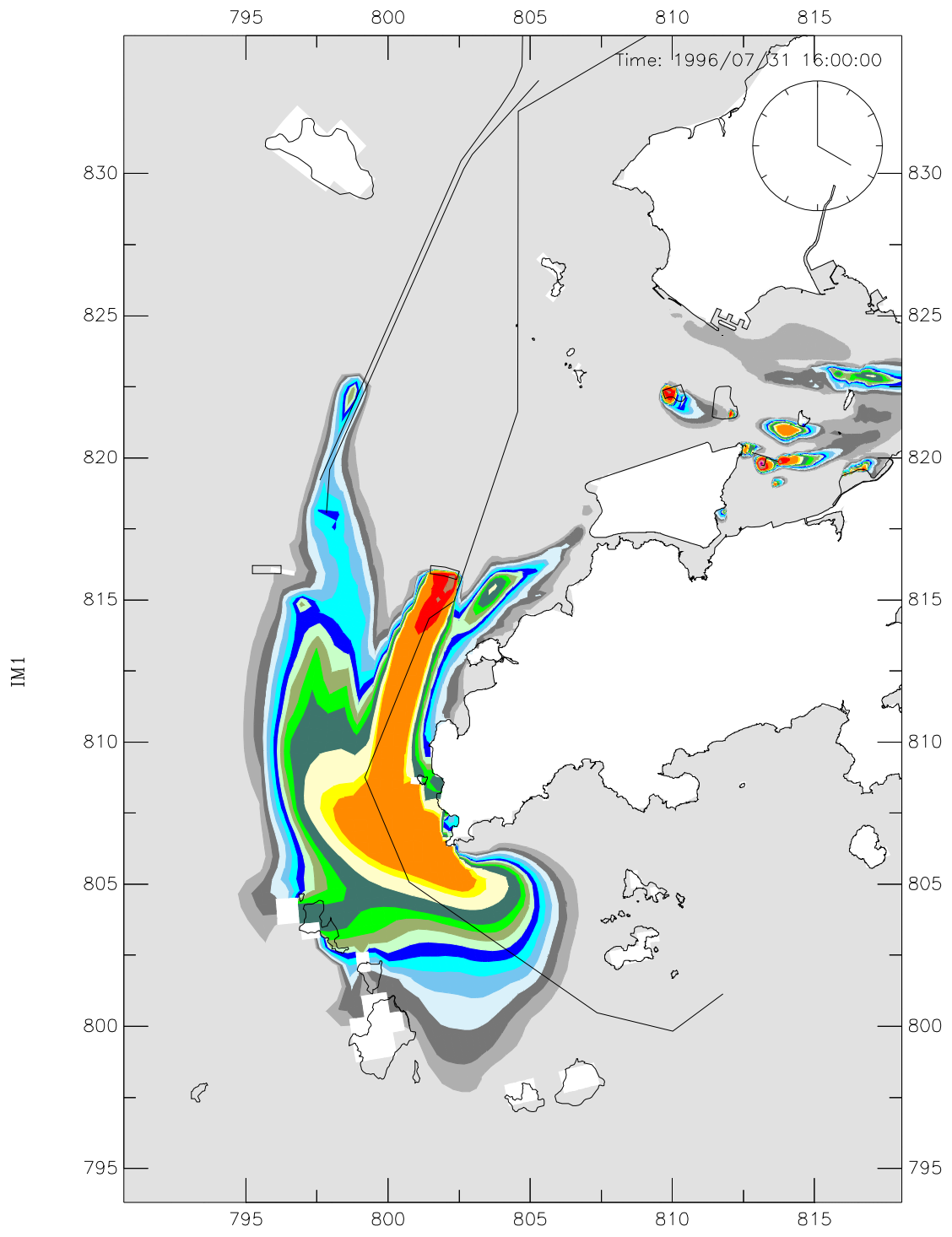
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Surface Layer
 Peak Ebb

July 2009
 2011-5P-Wet (PXM1-R11g)
 Figure 007



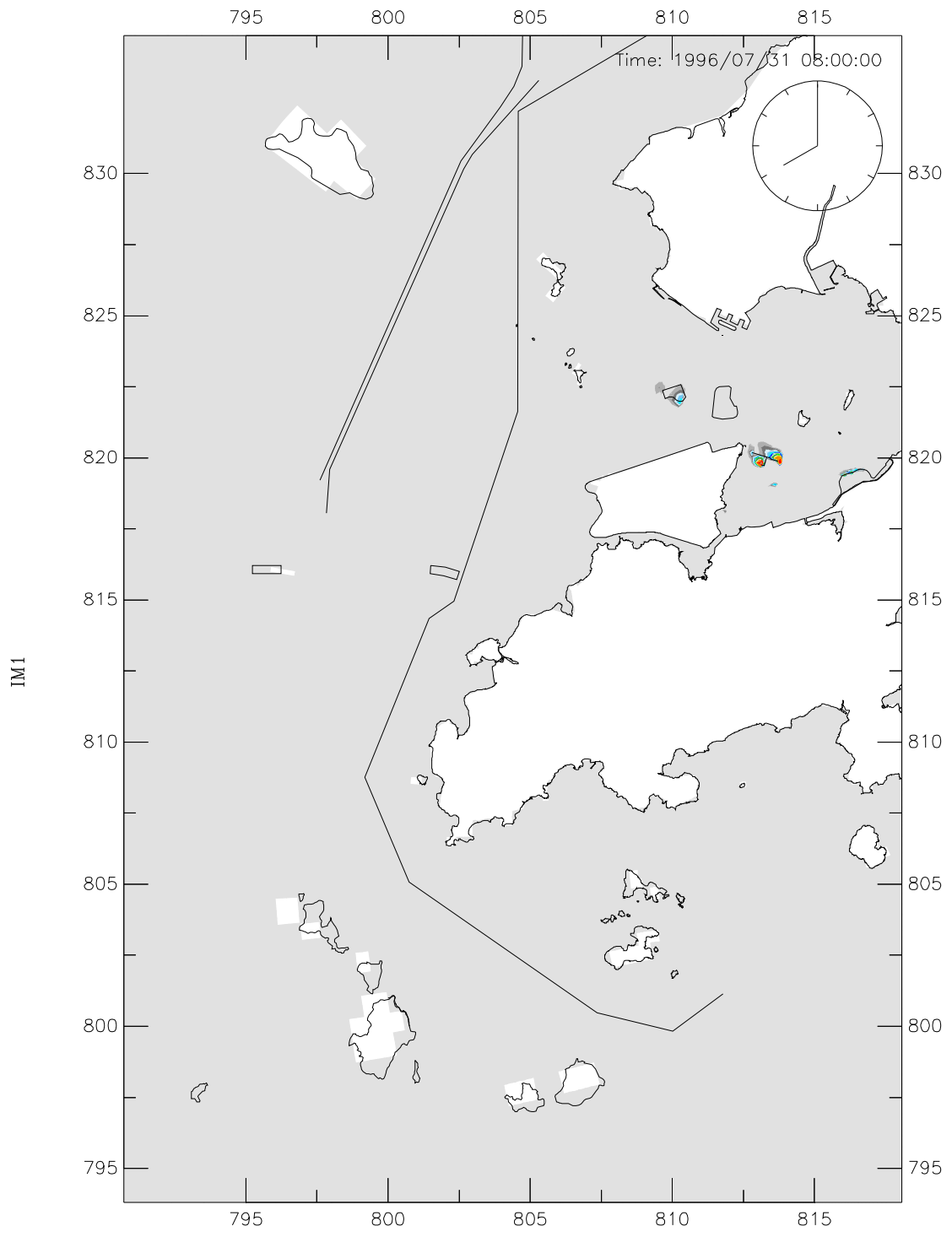
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Mid-Depth
 Peak Ebb

July 2009
 2011-5P-Wet (PXM1-R11g)
 Figure 008



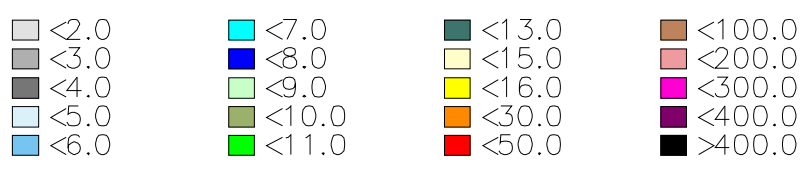
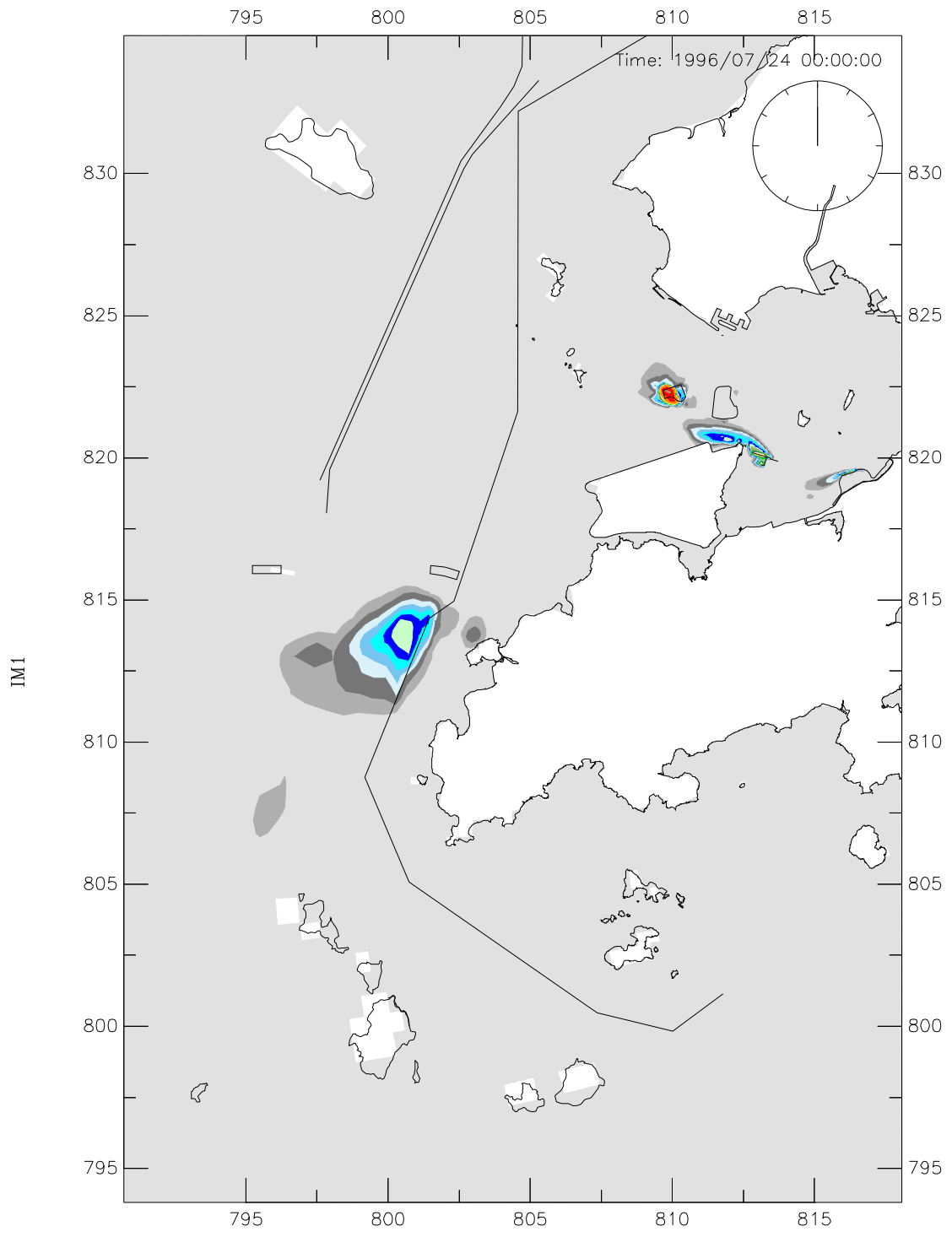
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Bottom Layer
 Peak Ebb

July 2009
 2011-5P-Wet (PXM1-R11g)
 Figure 009



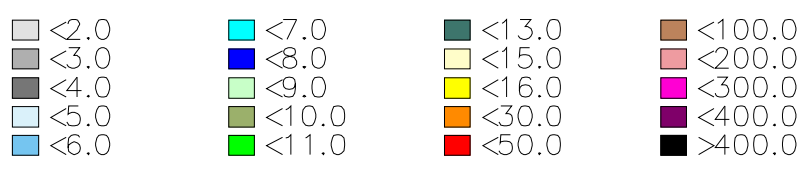
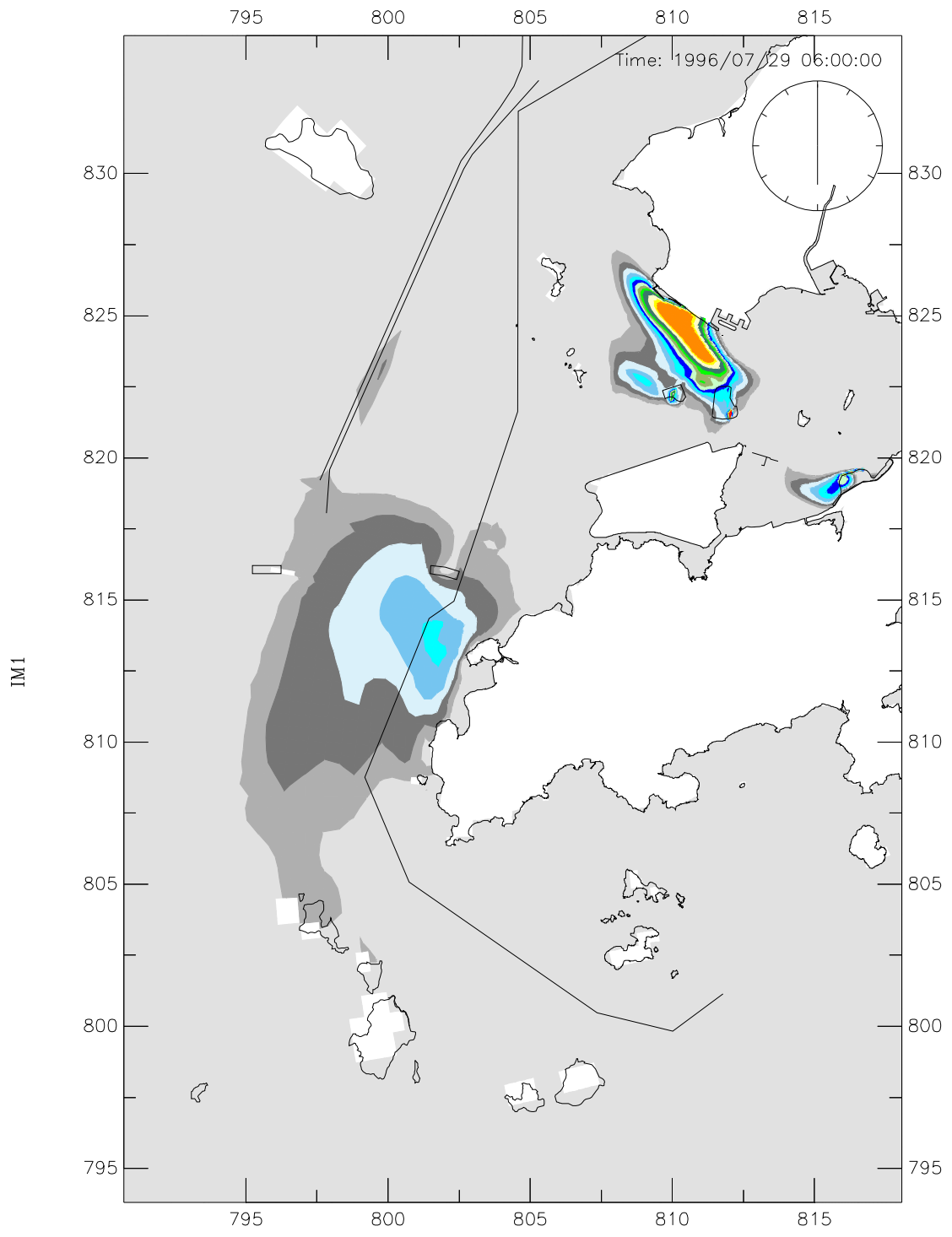
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Surface Layer
 Peak Flood

July 2009
 2011-5P-Wet (PXM1-R11g)
 Figure 010



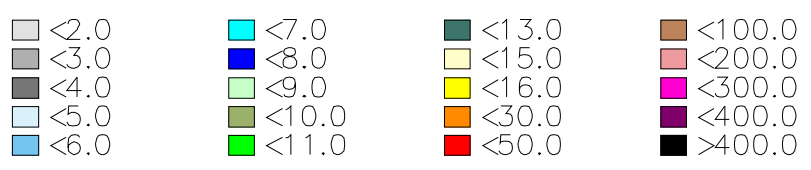
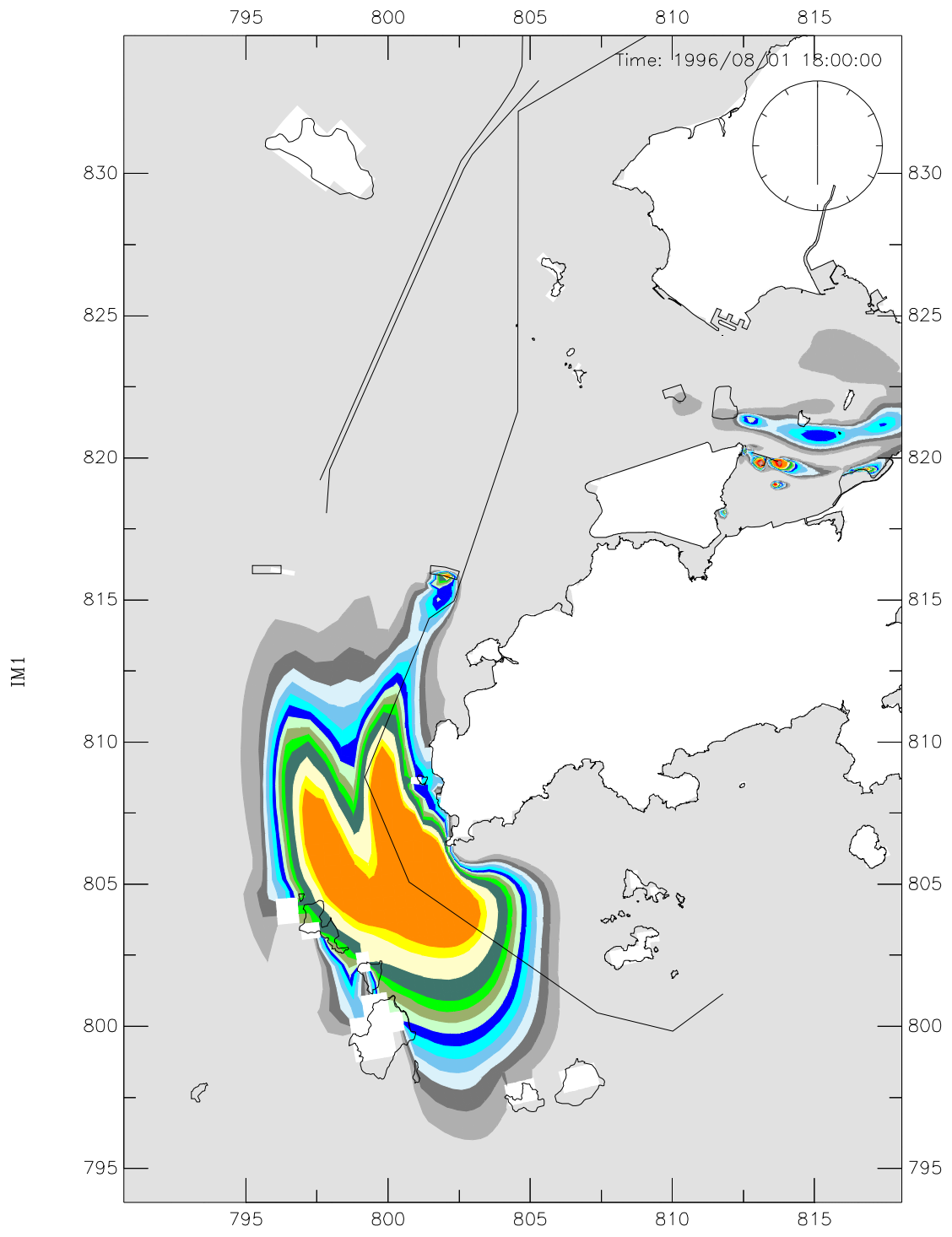
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Mid-Depth
 Peak Flood

July 2009
 2011.5P-Wet (PXM1-R11g)
 Figure 011



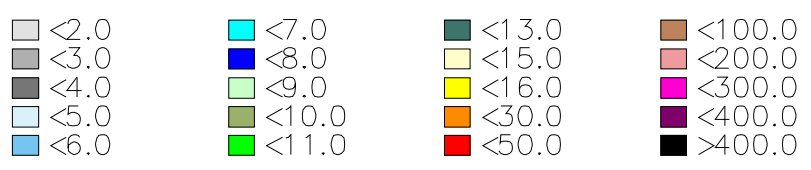
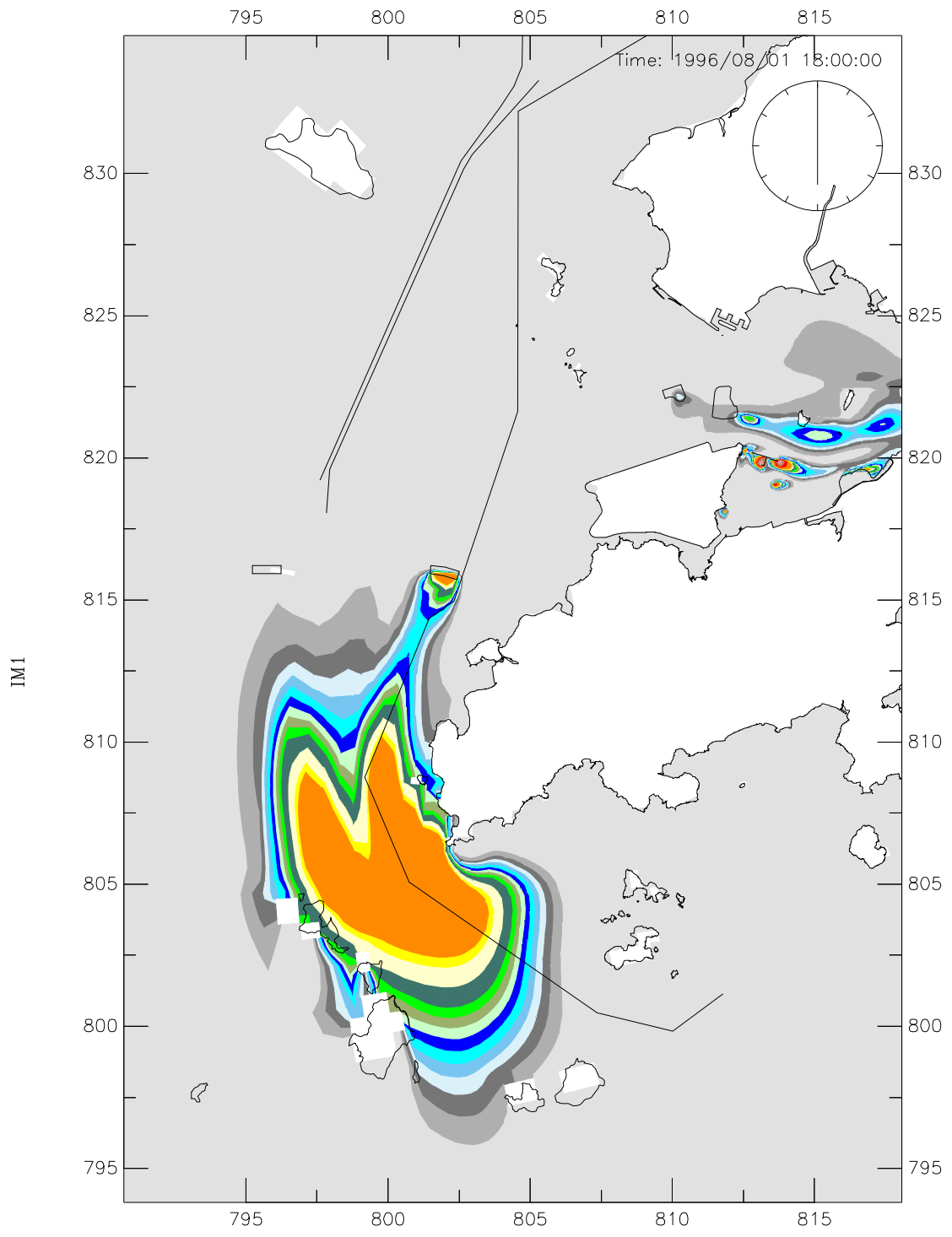
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Bottom Layer
 Peak Flood

July 2009
 Figure 012
 2011-5P-Wet (PXM1-R11g)



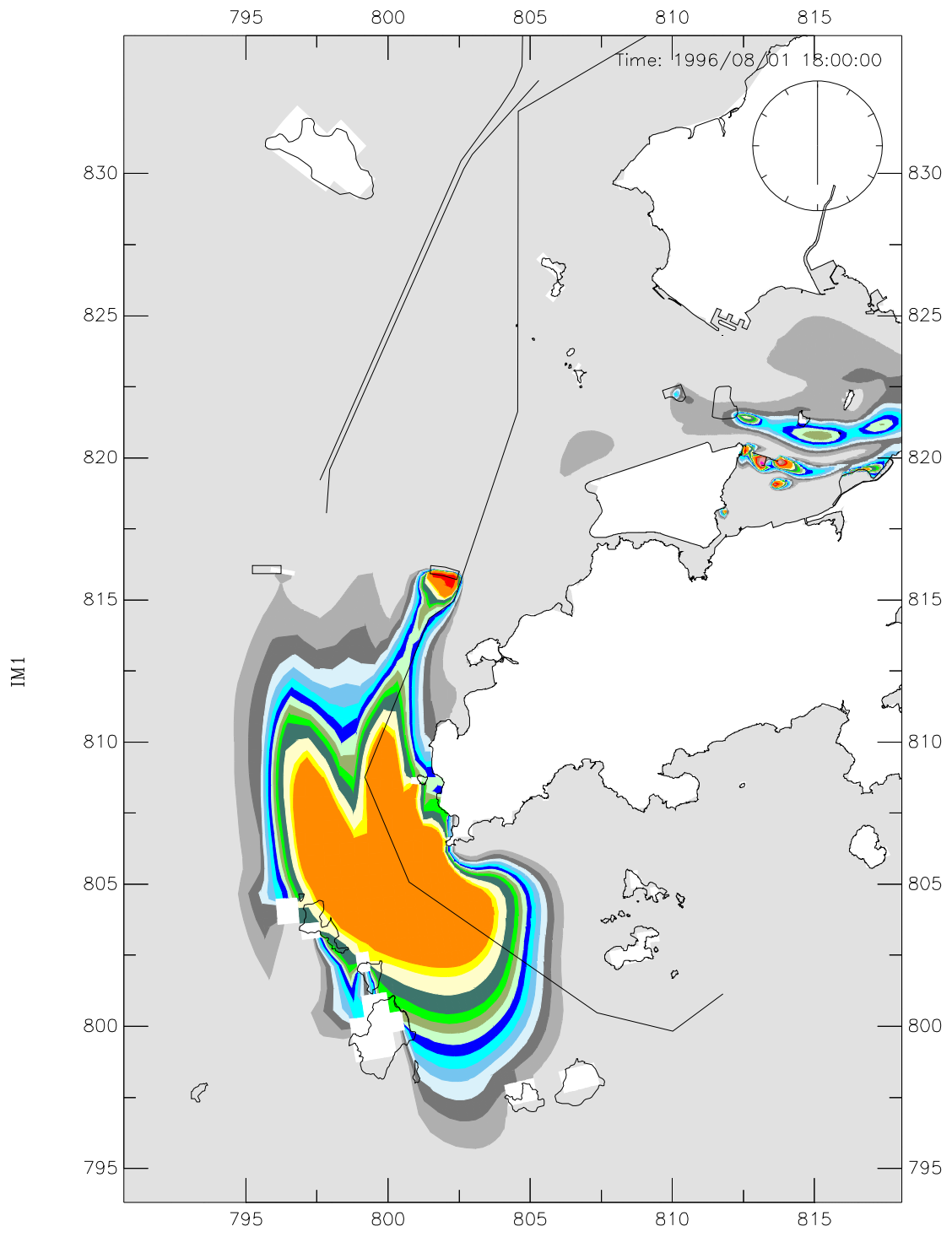
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Surface Layer
 Spring Tide, Lowest Low

July 2009
 2011-5P-Dry (PXM1-R11g)
 Figure 013



Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Mid-Depth
 Spring Tide, Lowest Low

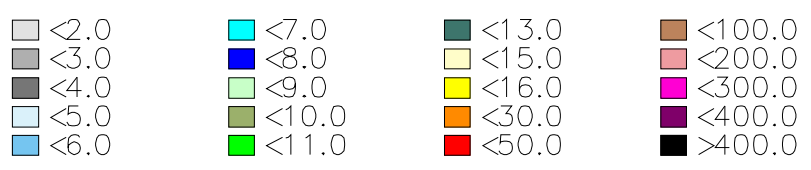
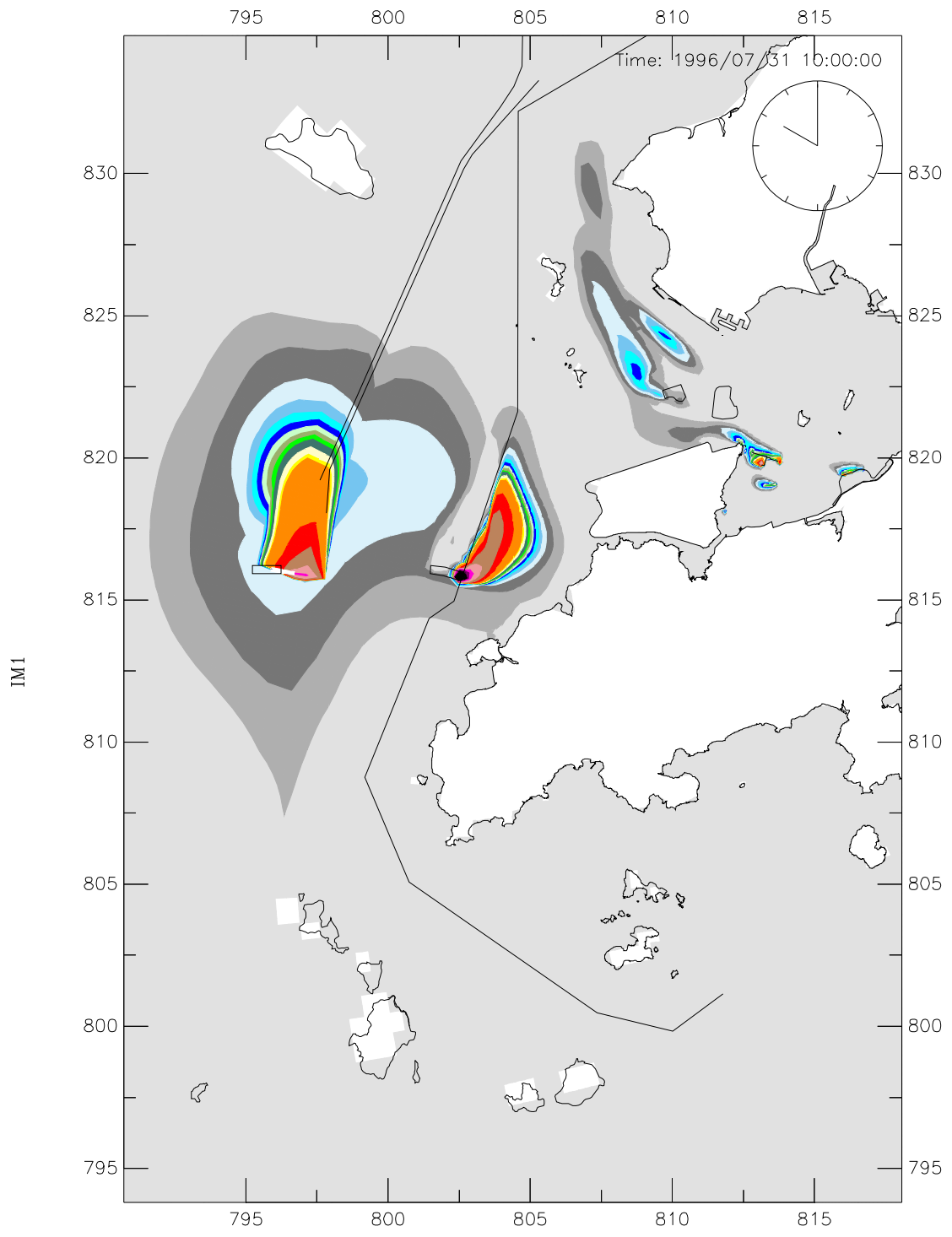
July 2009
 2011-5P-Dry (PXM1-R11g)
 Figure 014



- | | | | |
|------|-------|-------|--------|
| <2.0 | <7.0 | <13.0 | <100.0 |
| <3.0 | <8.0 | <15.0 | <200.0 |
| <4.0 | <9.0 | <16.0 | <300.0 |
| <5.0 | <10.0 | <30.0 | <400.0 |
| <6.0 | <11.0 | <50.0 | >400.0 |

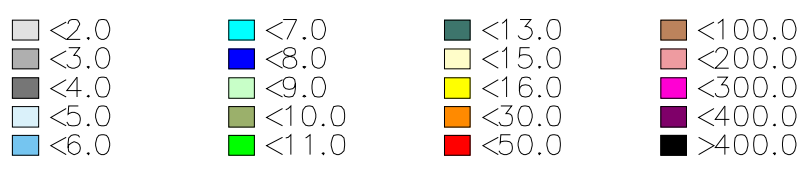
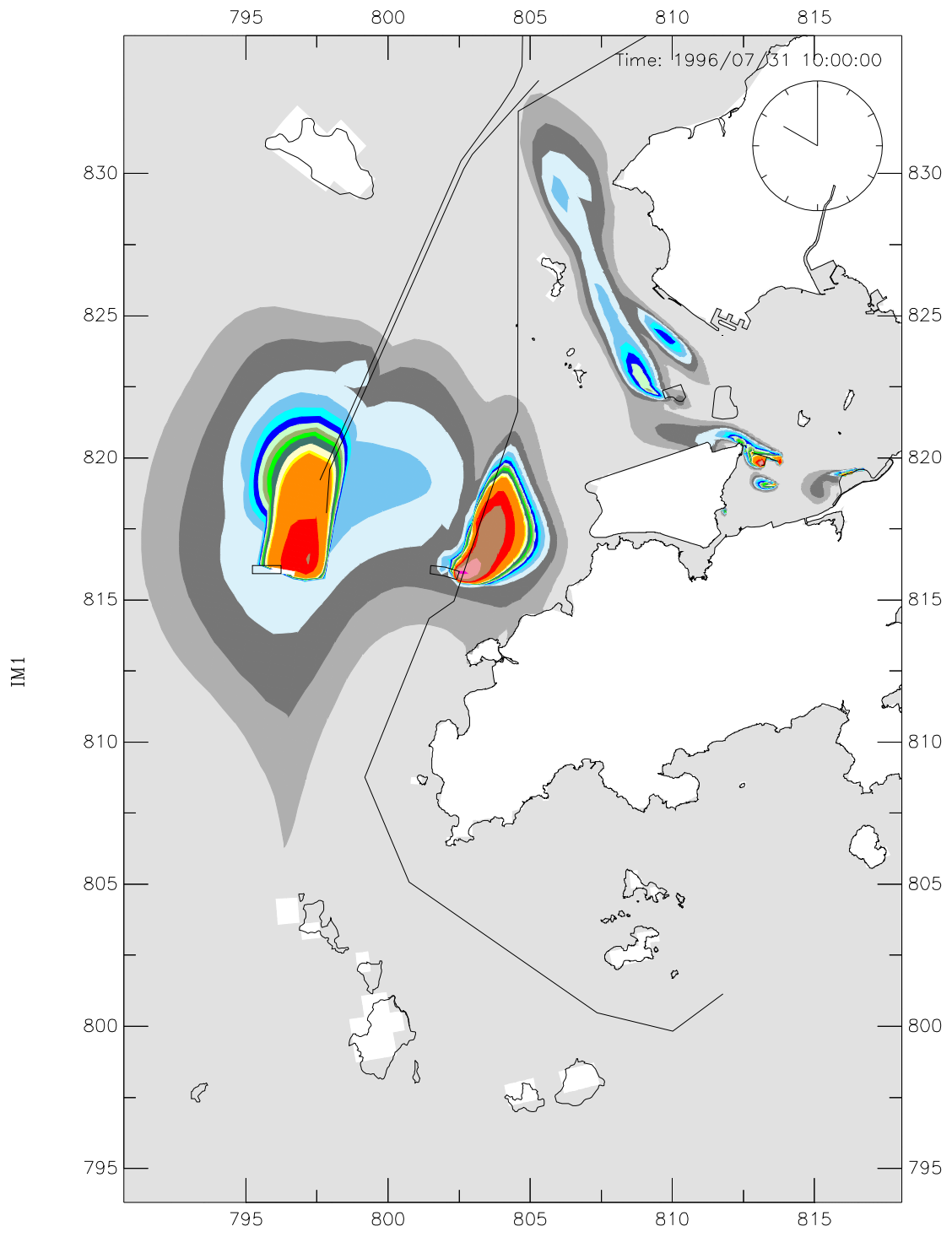
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Bottom Layer
 Spring Tide, Lowest Low

July 2009
 Figure 015
 2011-5P-Dry (PXM1-R11g)



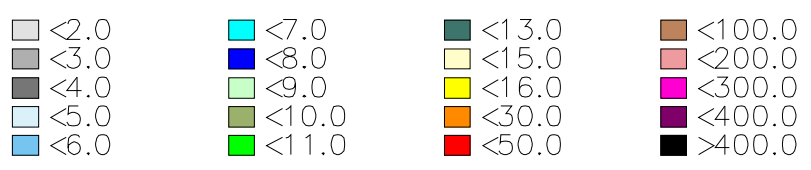
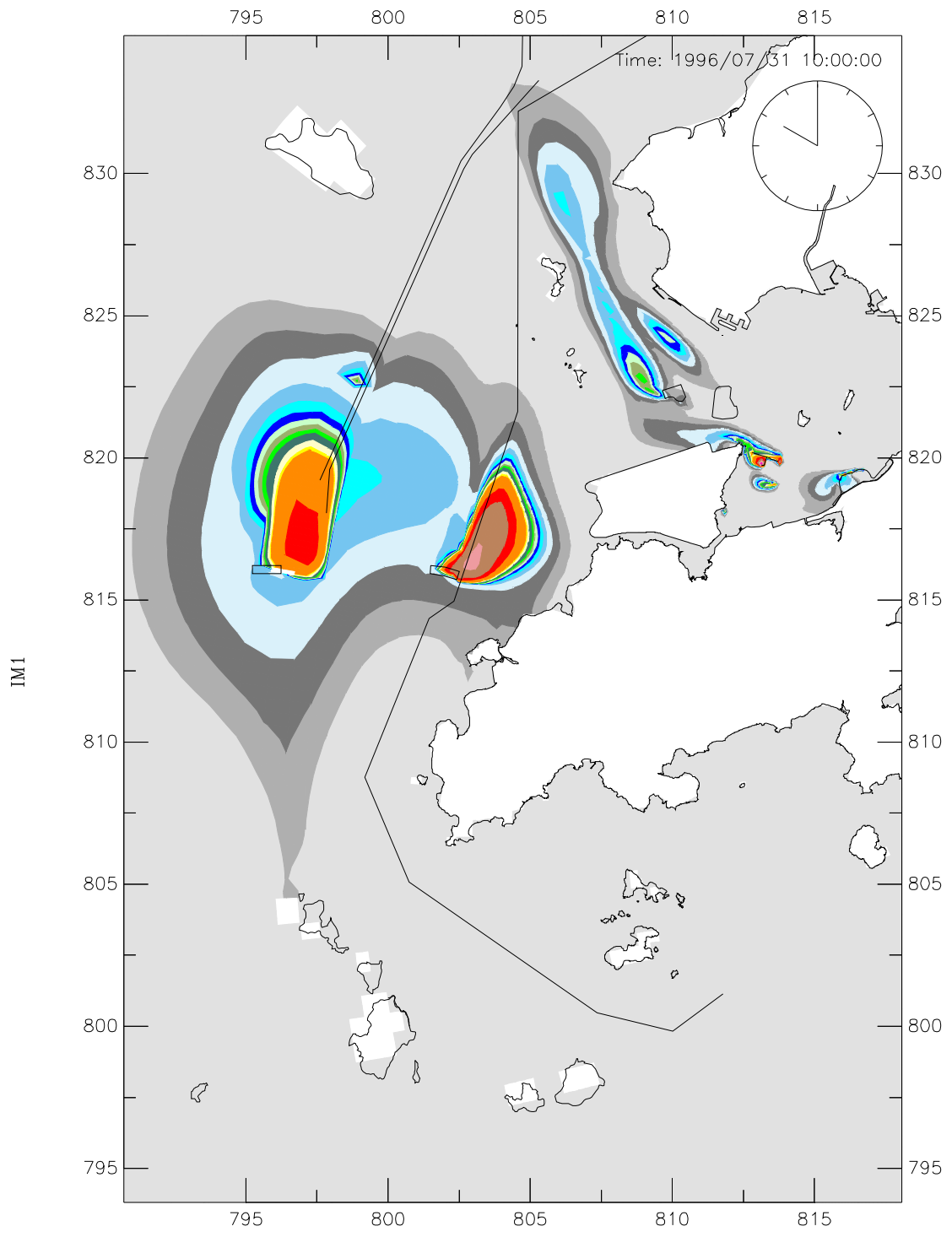
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Surface Layer
 Spring Tide, Highest High

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 016



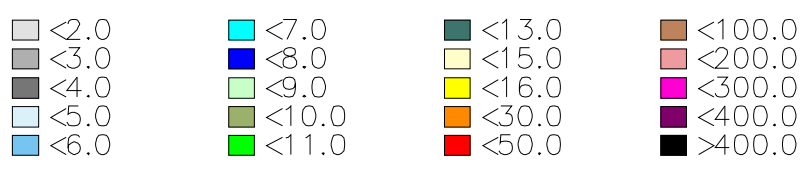
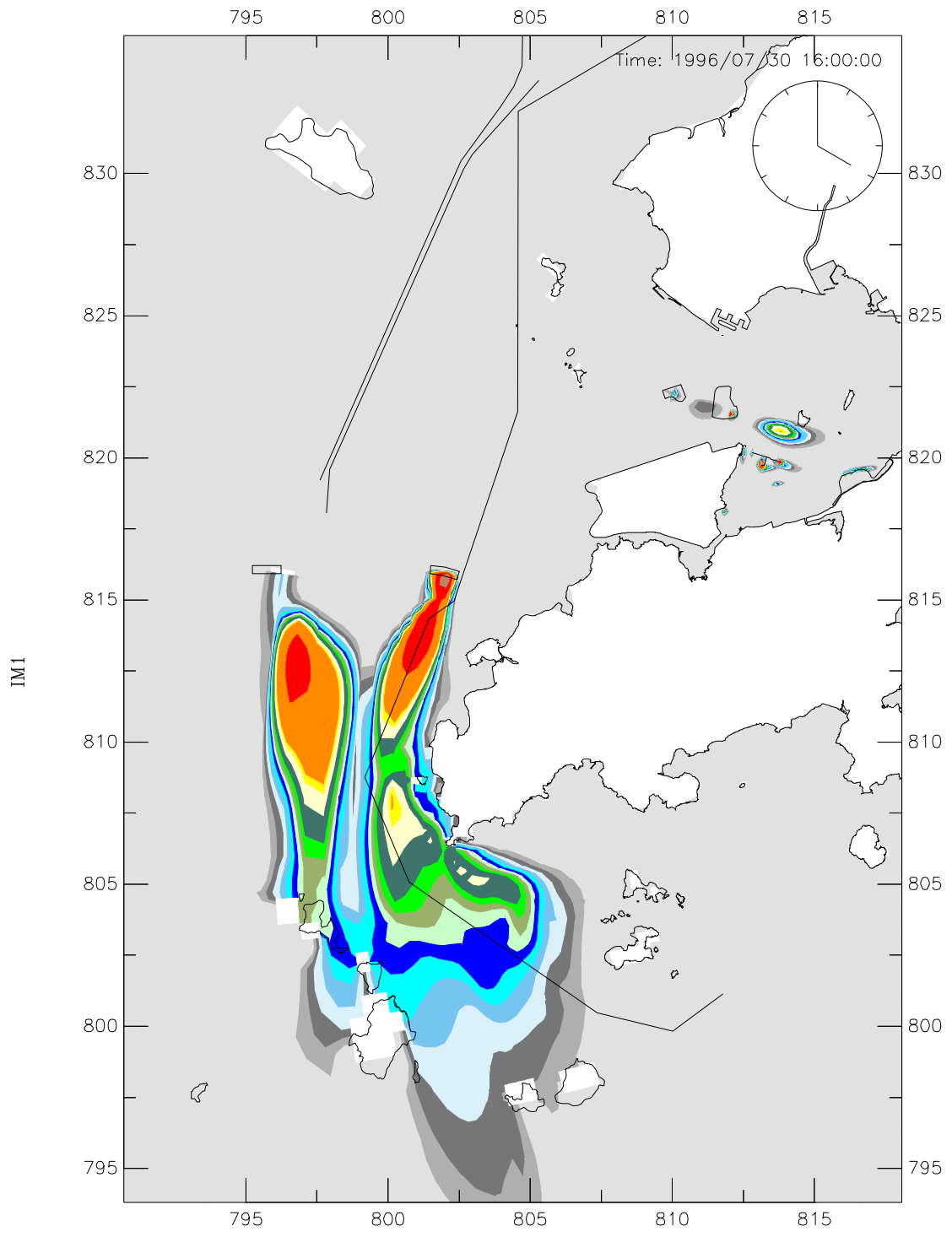
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Mid-Depth
 Spring Tide, Highest High

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 017



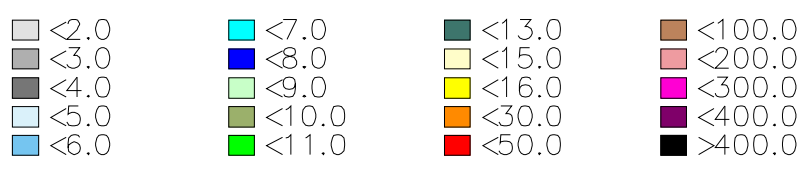
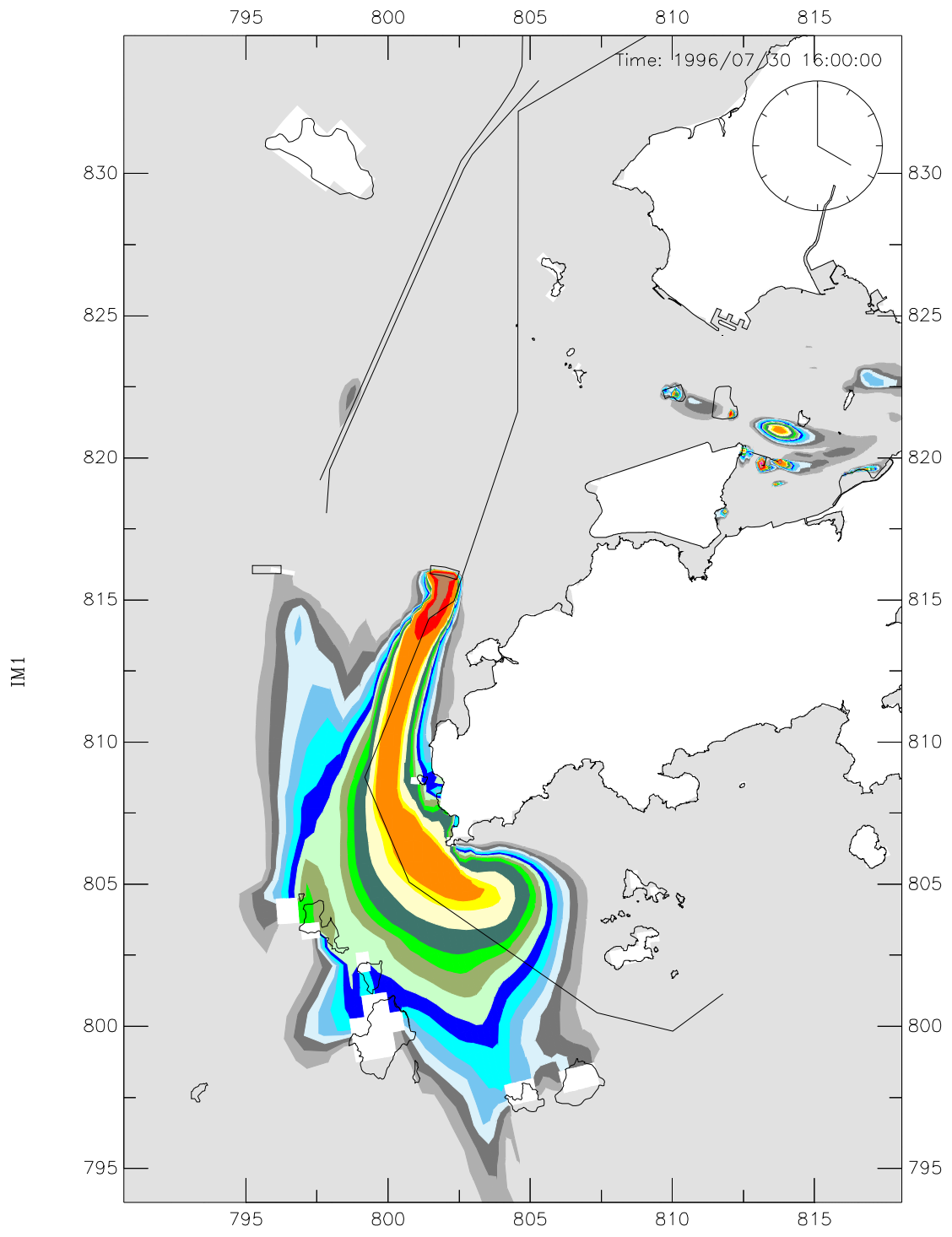
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Bottom Layer
 Spring Tide, Highest High

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 018



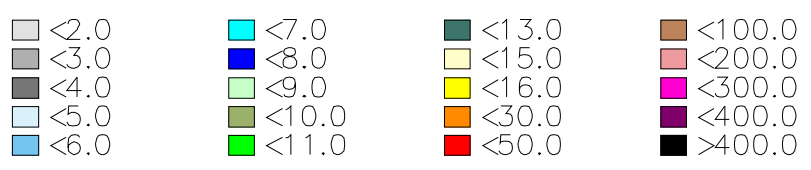
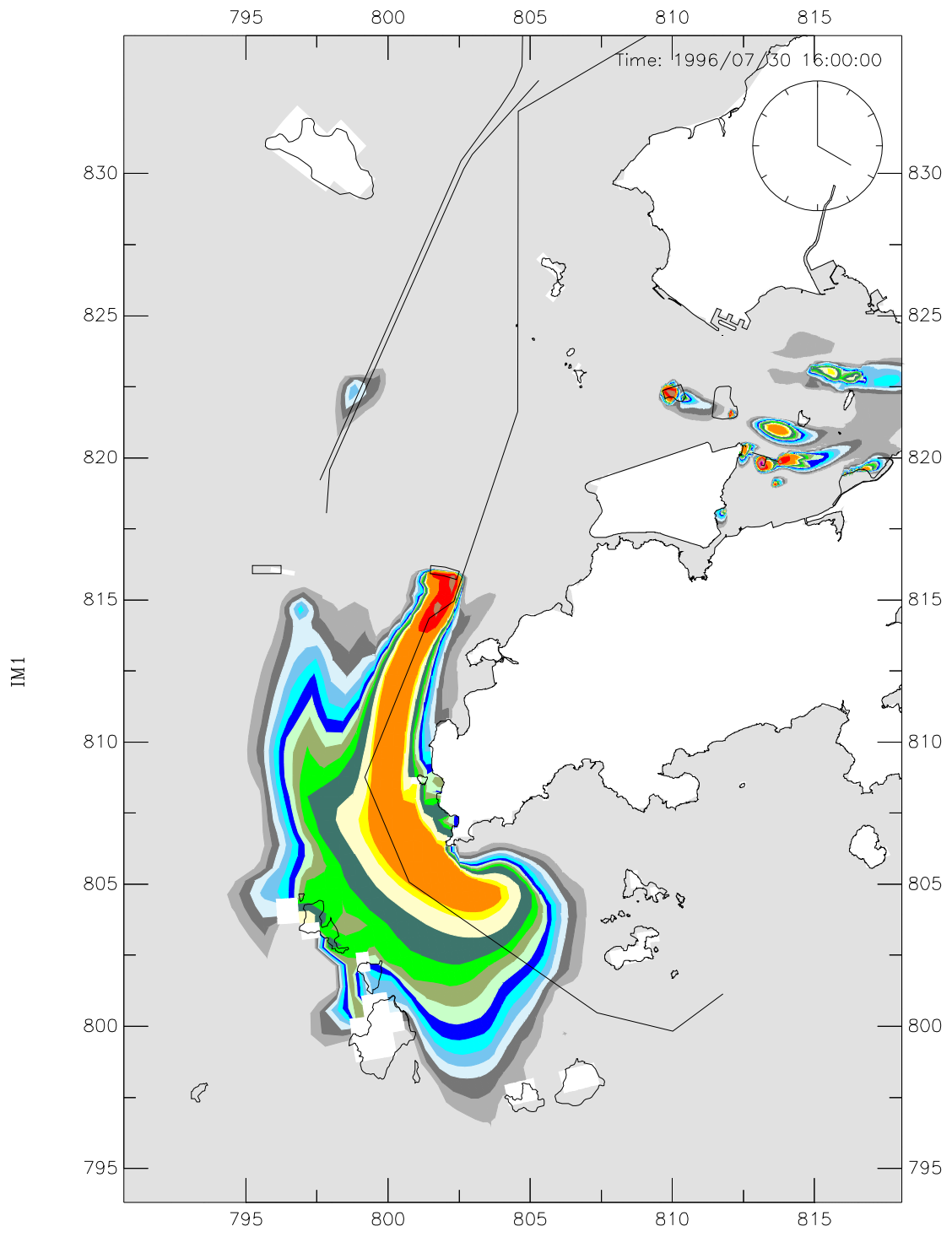
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Surface Layer
 Spring Tide, Lowest Low

July 2009
 Figure 019
 2011-5P-Wet (PXM1-R11g)



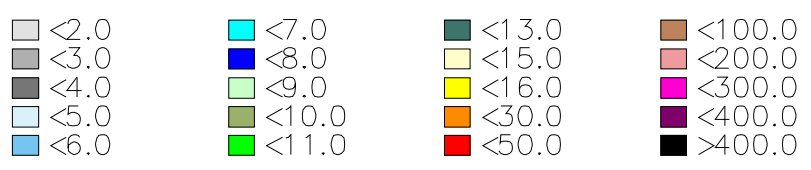
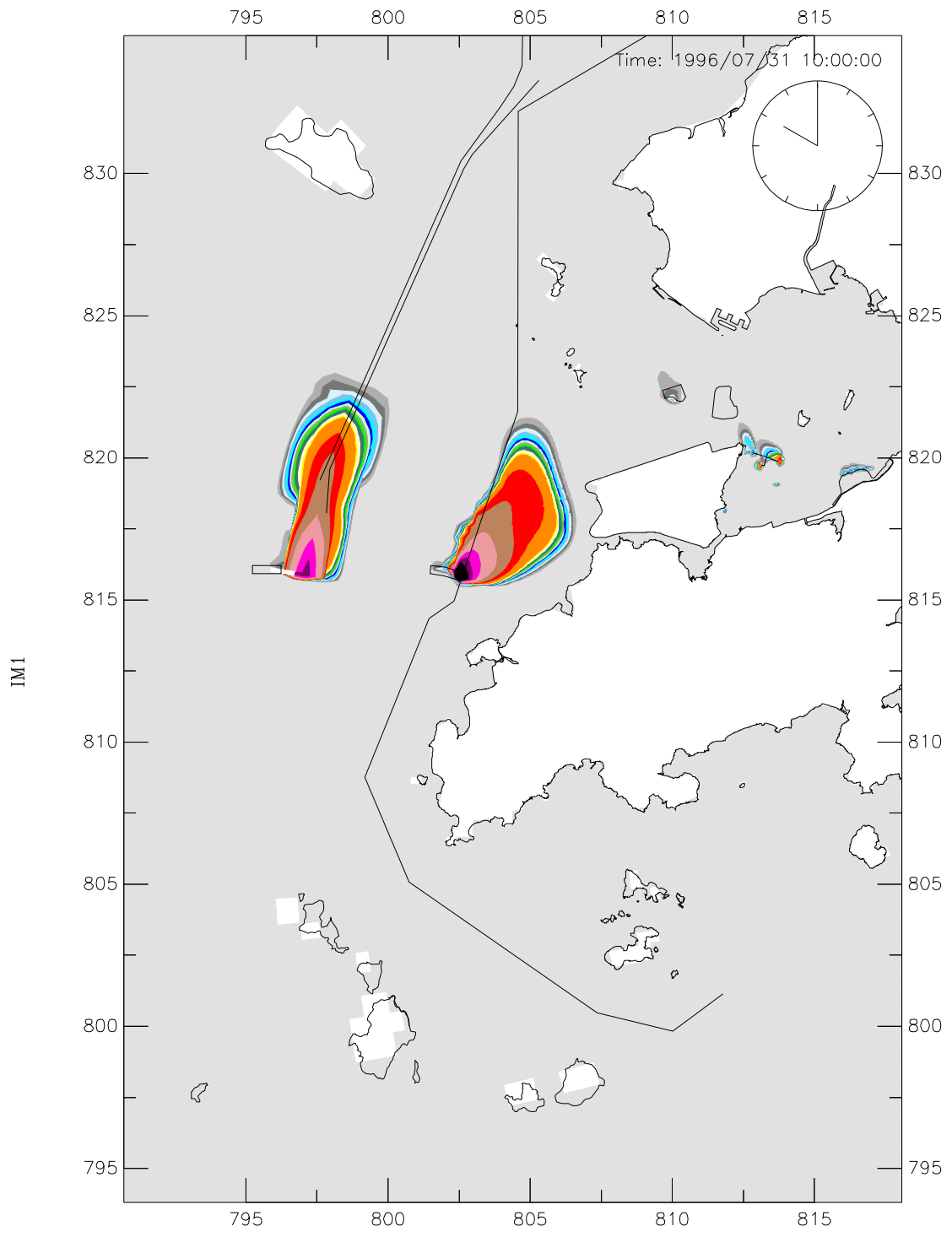
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Mid-Depth
 Spring Tide, Lowest Low

July 2009
 Figure 020
 2011-5P-Wet (PXM1-R11g)



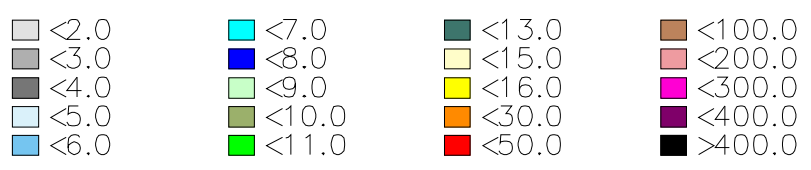
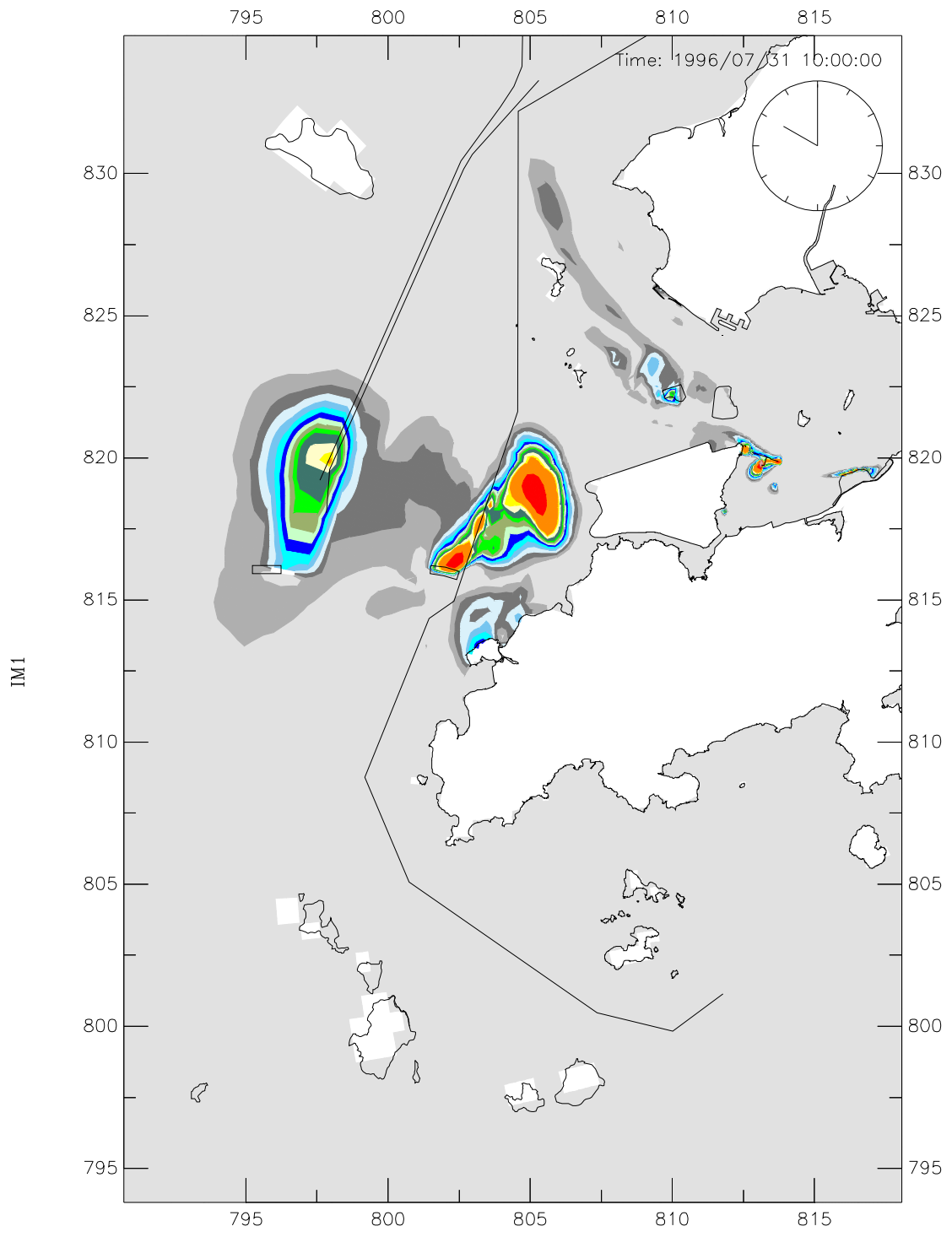
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Bottom Layer
 Spring Tide, Lowest Low

July 2009
 Figure 021
 2011-5P-Wet (PXM1-R11g)



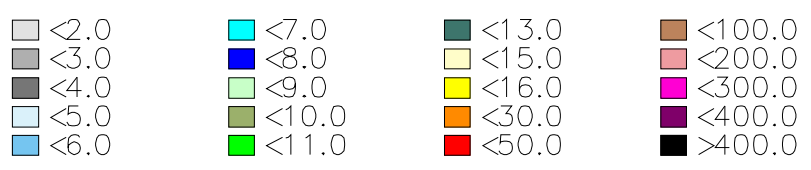
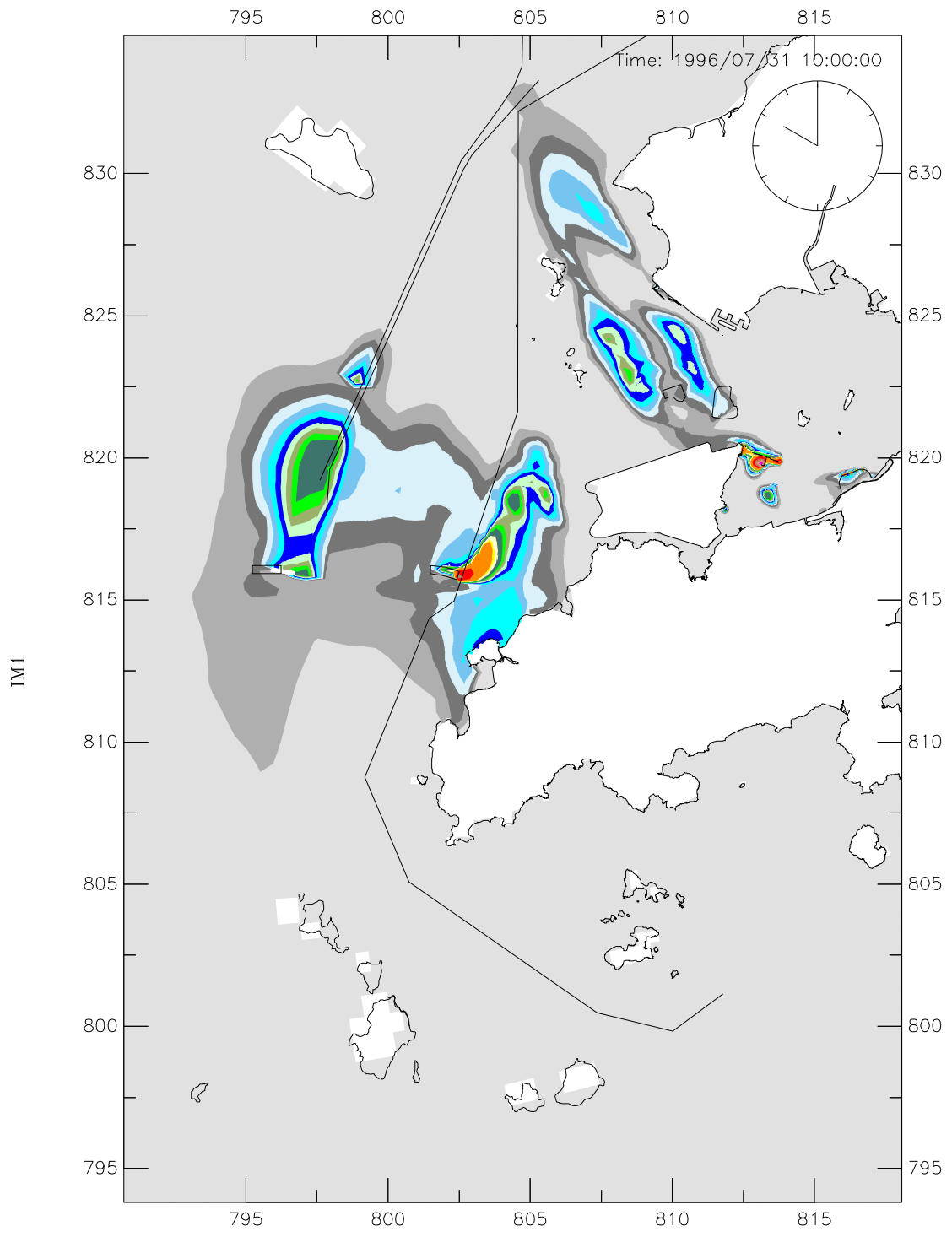
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Surface Layer
 Spring Tide, Highest High

July 2009
 Figure 022
 2011.5P-Wet (PXM1-R11g)



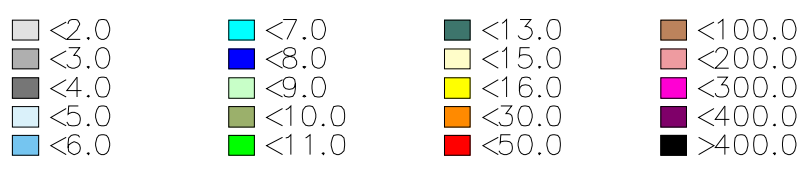
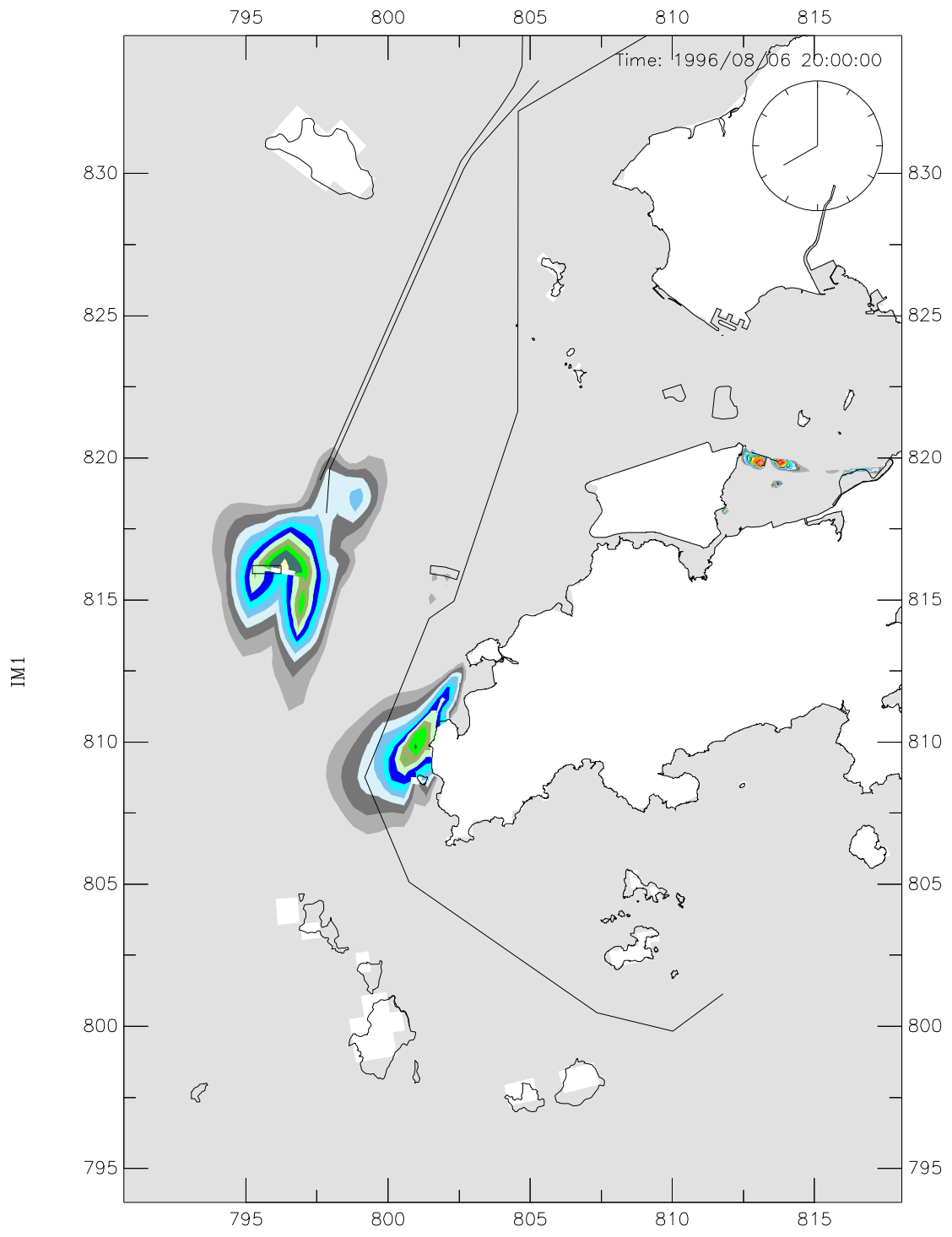
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Mid-Depth
 Spring Tide, Highest High

July 2009
 2011-5P-Wet (PXM1-R11g)
 Figure 023



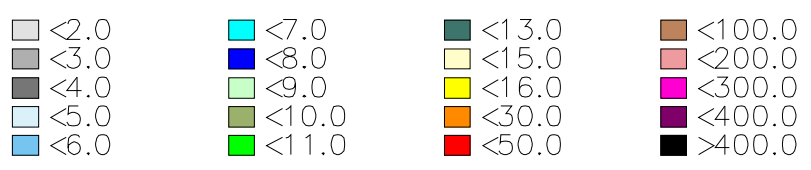
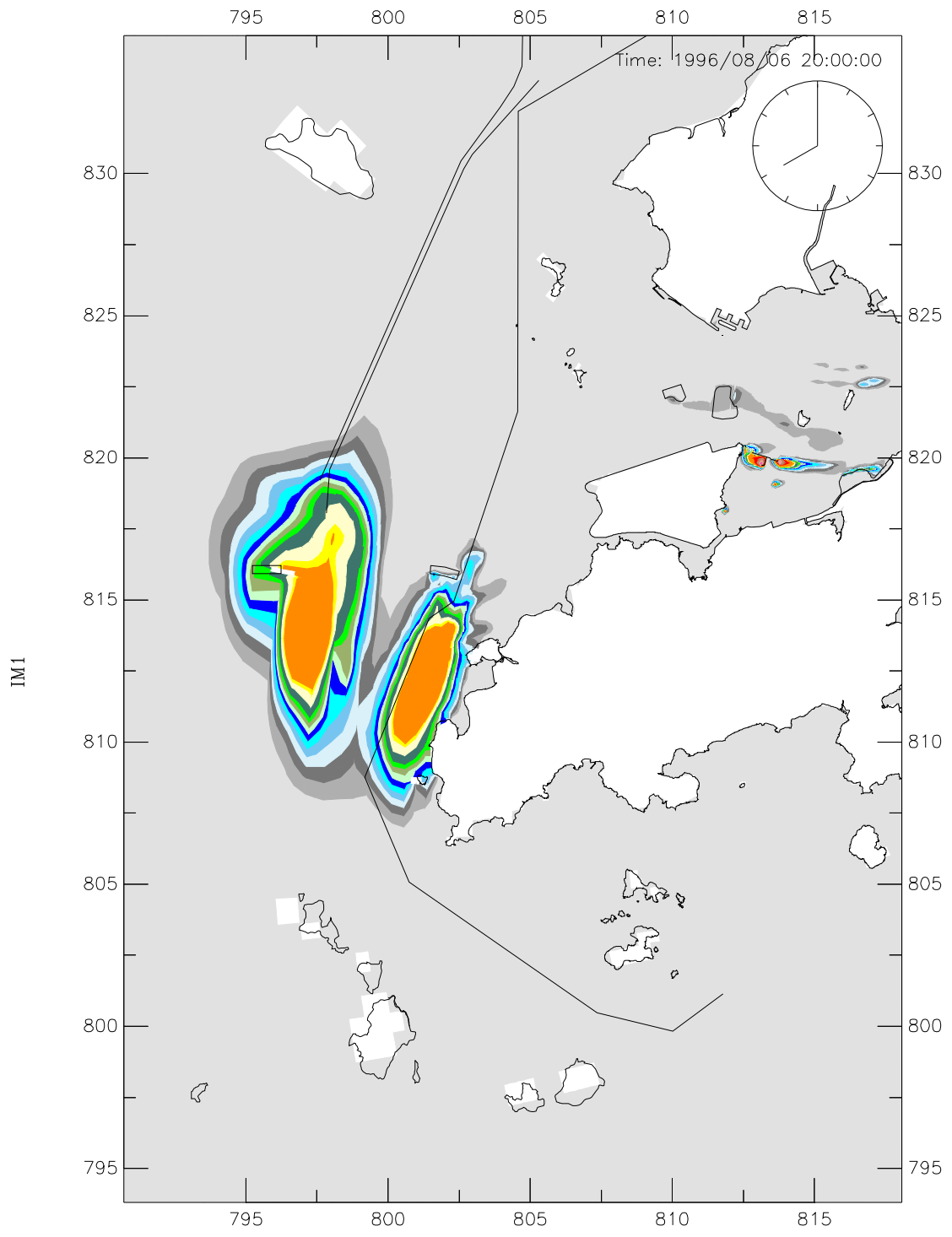
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Bottom Layer
 Spring Tide, Highest High

July 2009
 2011.5P-Wet (PXM1-R11g)
 Figure 024



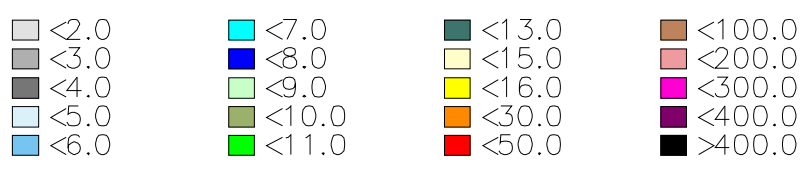
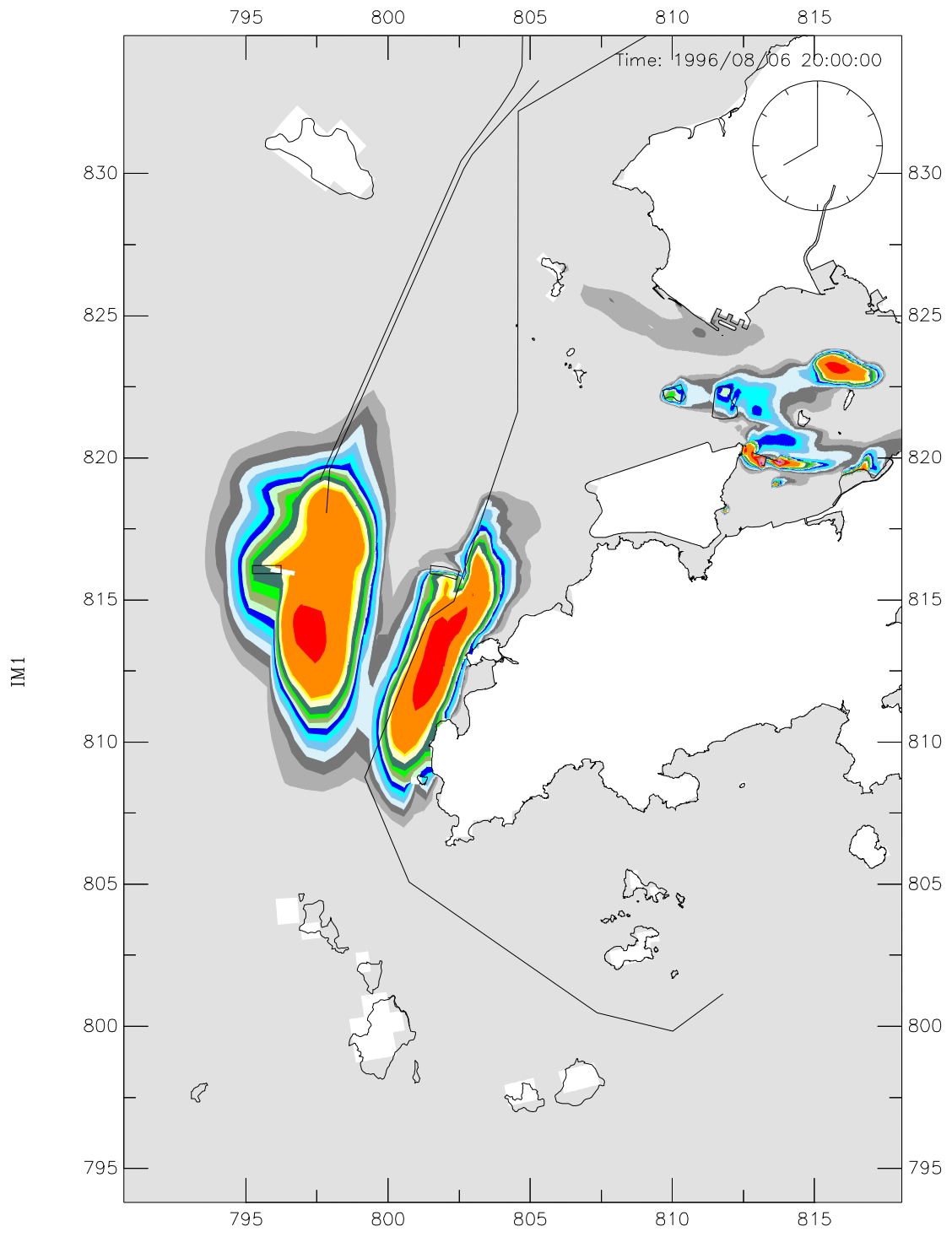
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Surface Layer
 Neap Tide, Lowest Low

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 025



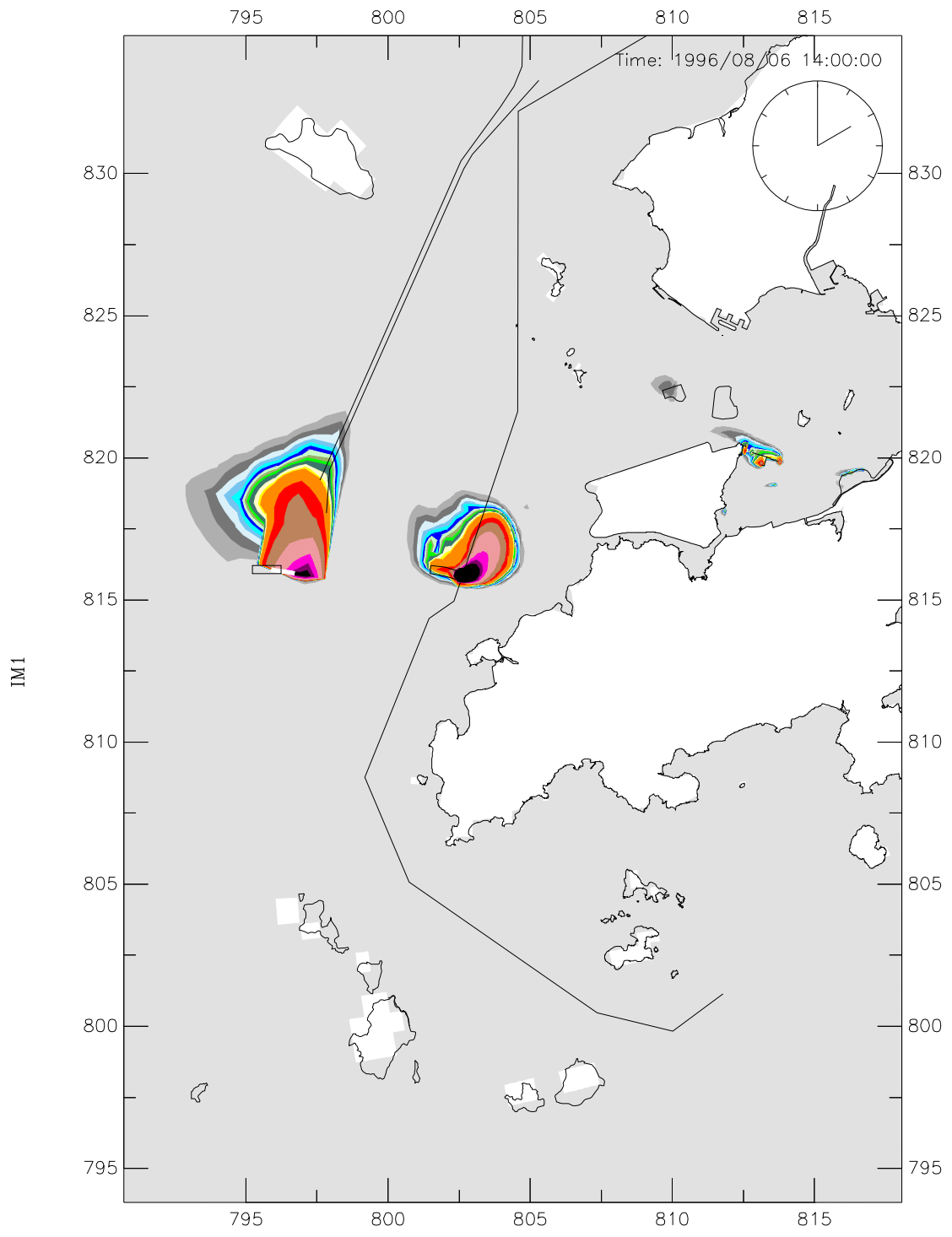
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Mid-Depth
 Neap Tide, Lowest Low

July 2009
 2011-5P-Dry (PXM1-R11g)
 Figure 026



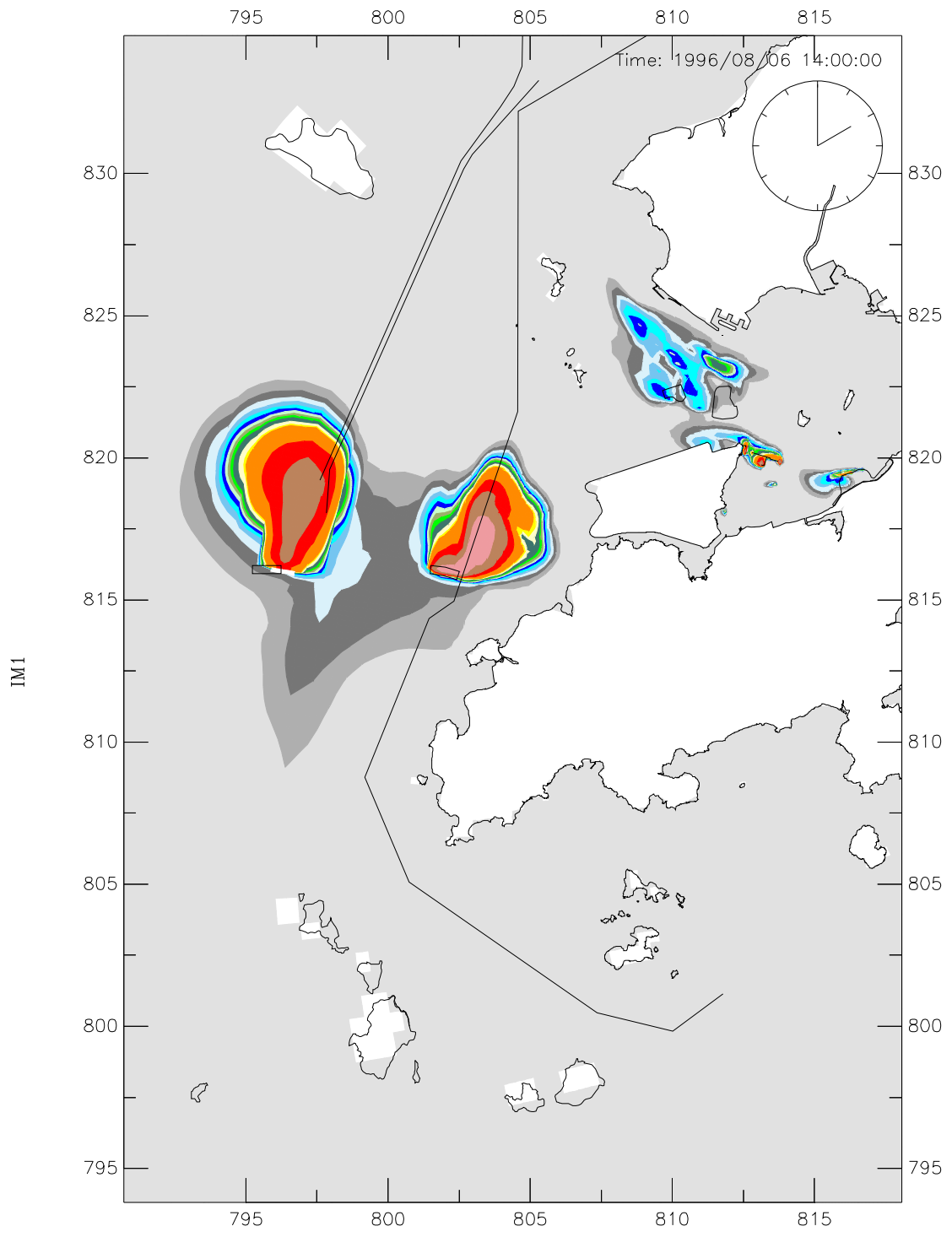
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Bottom Layer
 Neap Tide, Lowest Low

July 2009
 2011-5P-Dry (PXM1-R11g)
 Figure 027



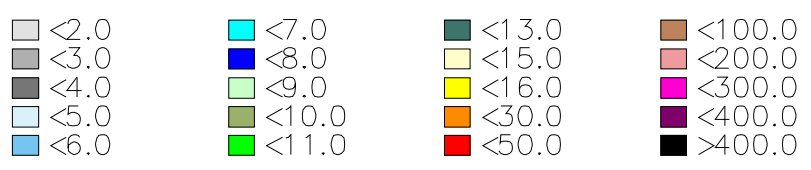
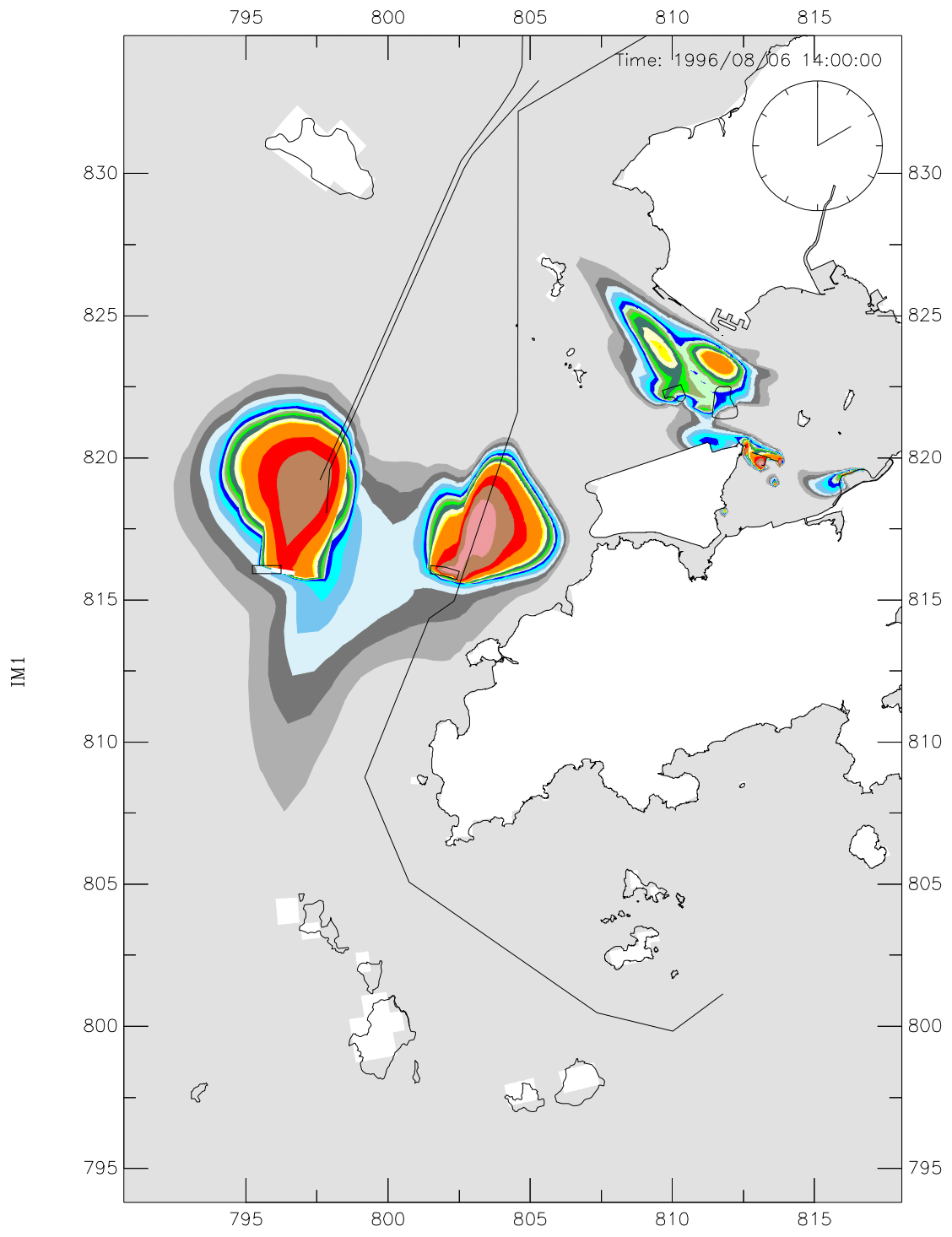
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Surface Layer
 Neap Tide, Highest High

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 028



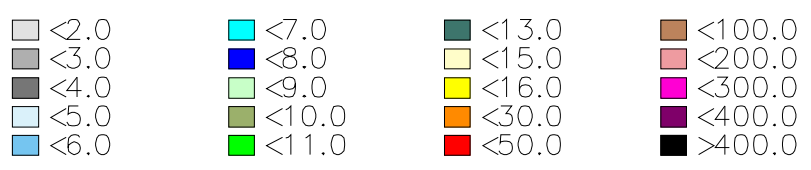
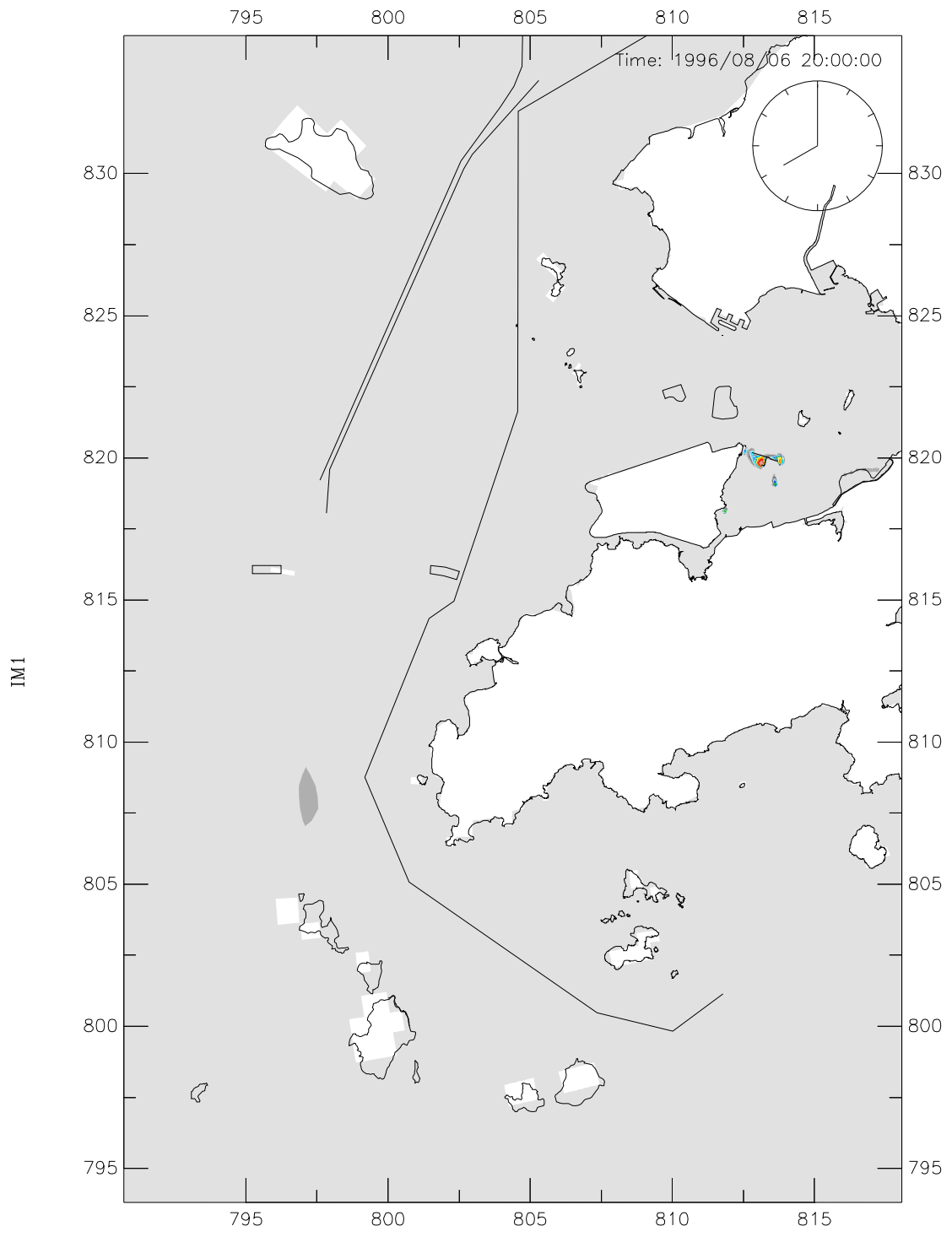
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Mid-Depth
 Neap Tide, Highest High

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 029



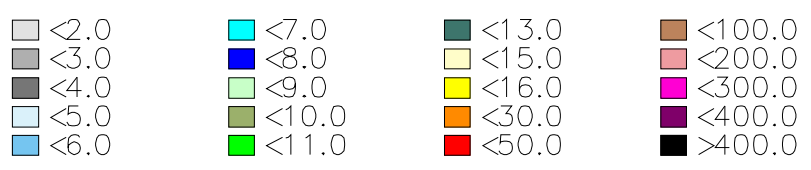
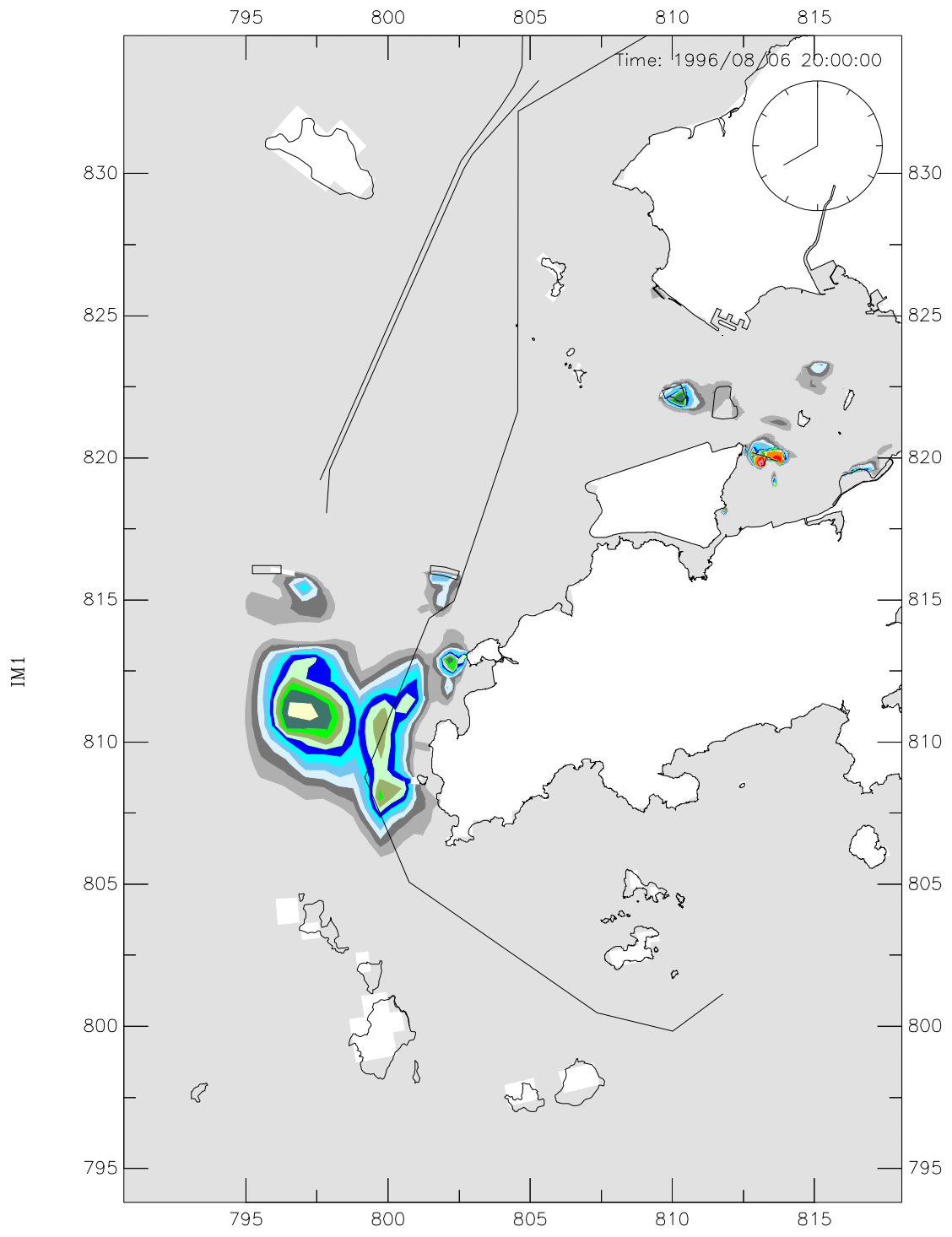
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Dry Season, Bottom Layer
 Neap Tide, Highest High

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 030



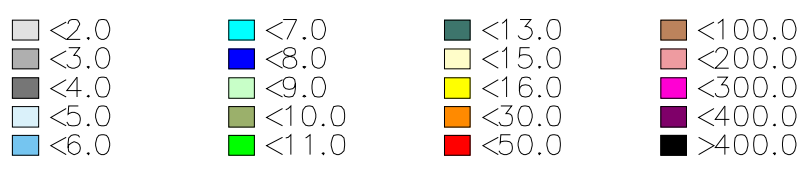
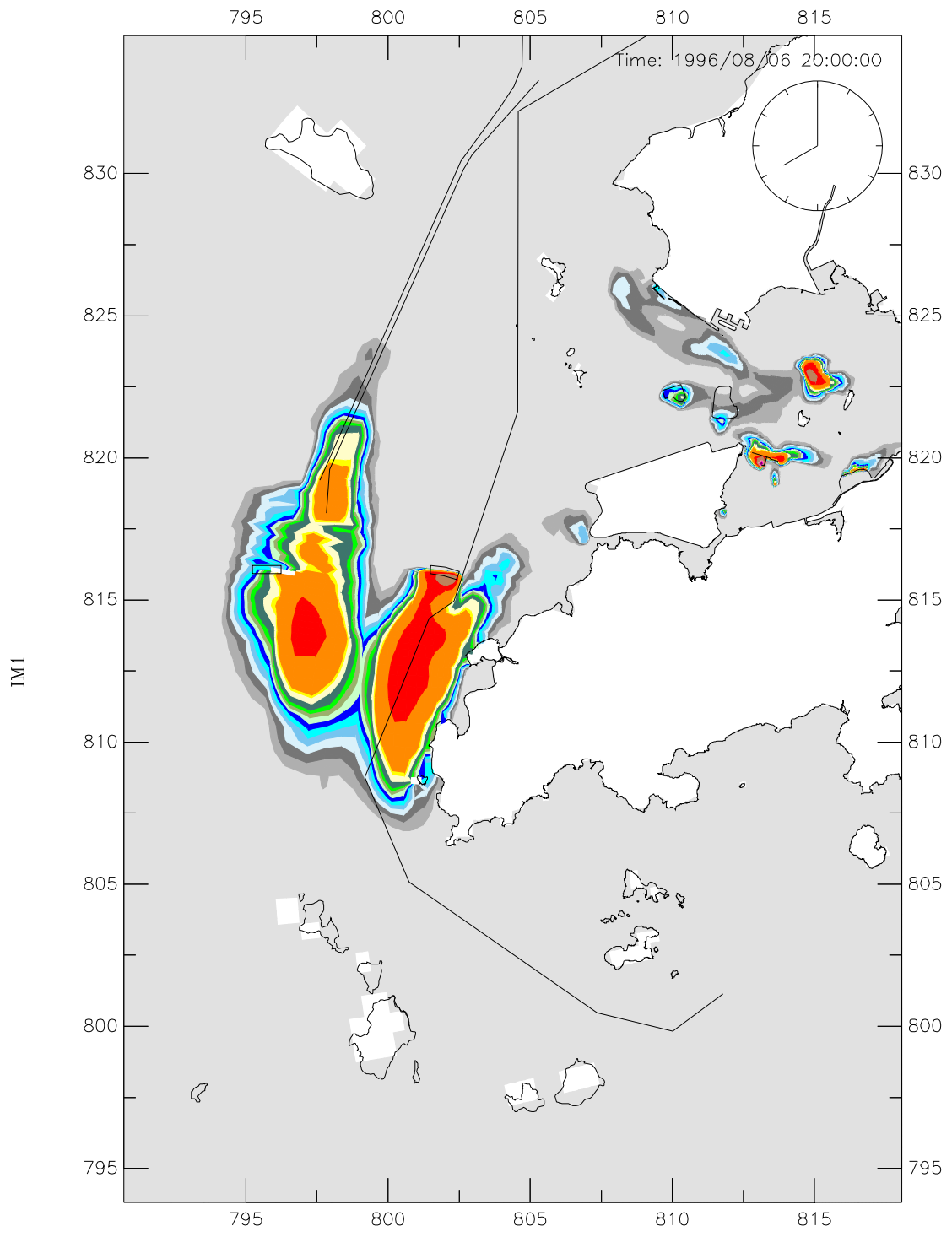
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Surface Layer
 Neap Tide, Lowest Low

July 2009
 2011.5P-Wet (PXM1-R11g)
 Figure 031



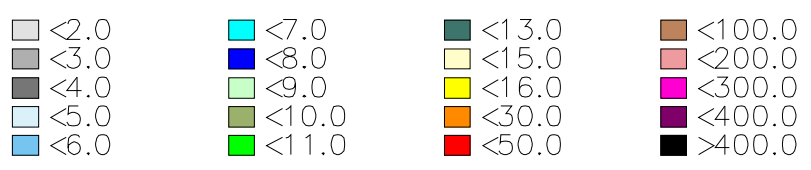
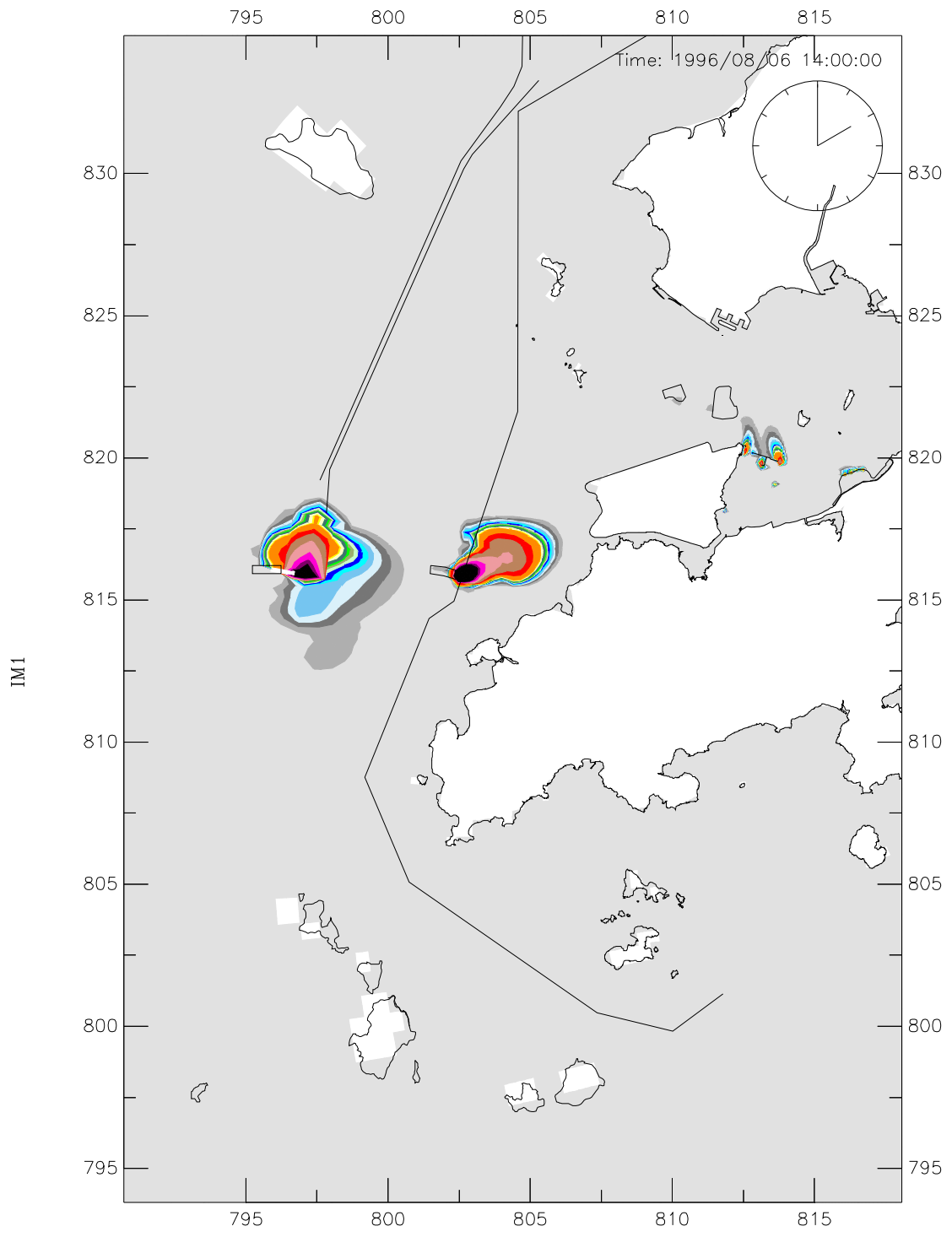
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Mid-Depth
 Neap Tide, Lowest Low

July 2009
 Figure 032
 2011-5P-Wet (PXM1-R11g)



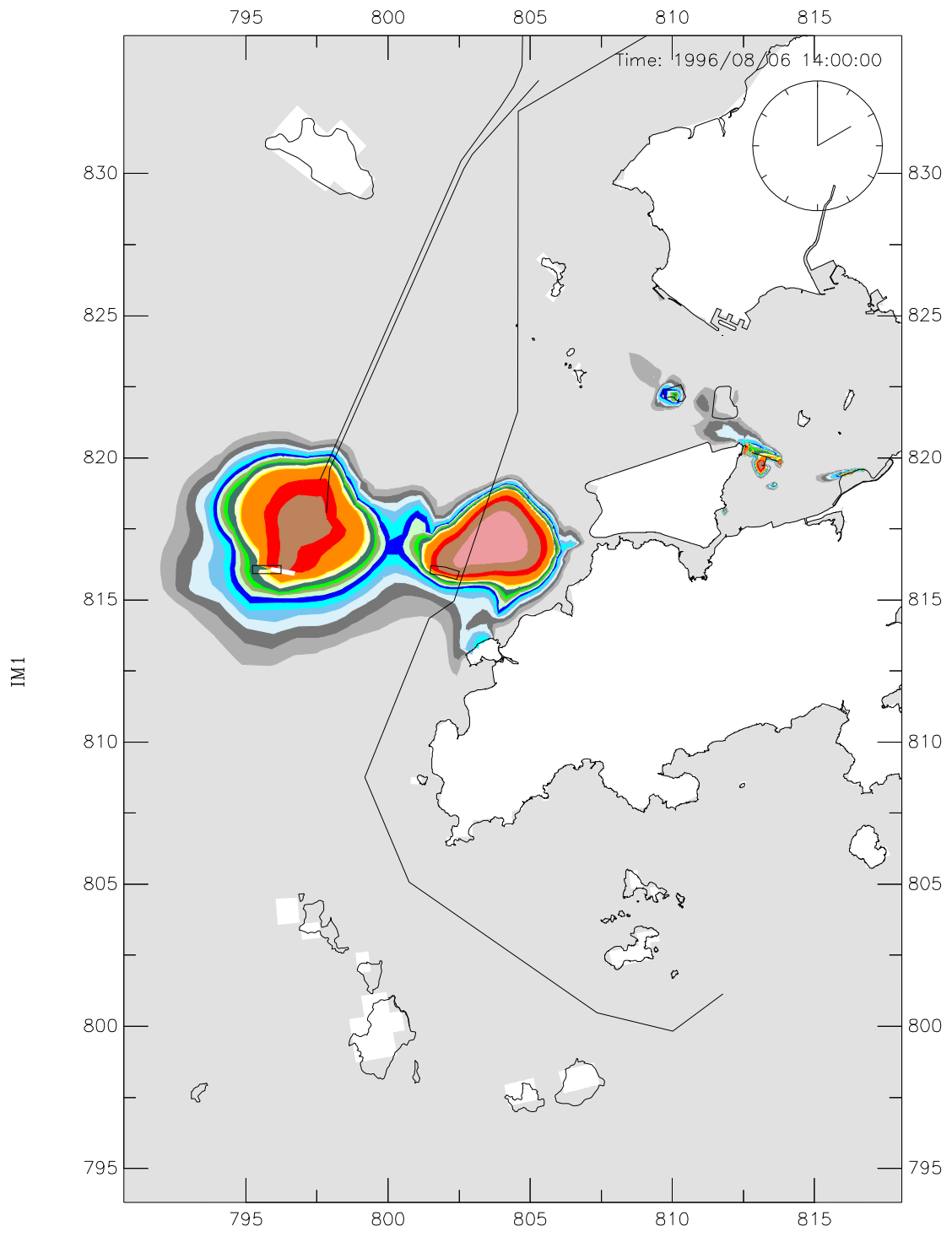
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Bottom Layer
 Neap Tide, Lowest Low

July 2009
 Figure 033
 2011-5P-Wet (PXM1-R11g)



Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Surface Layer
 Neap Tide, Highest High

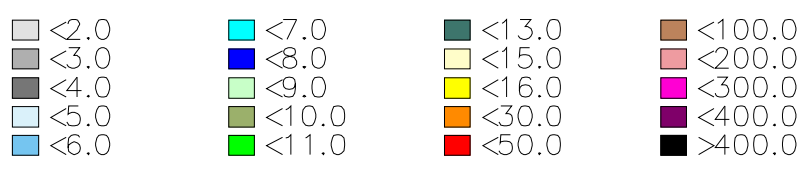
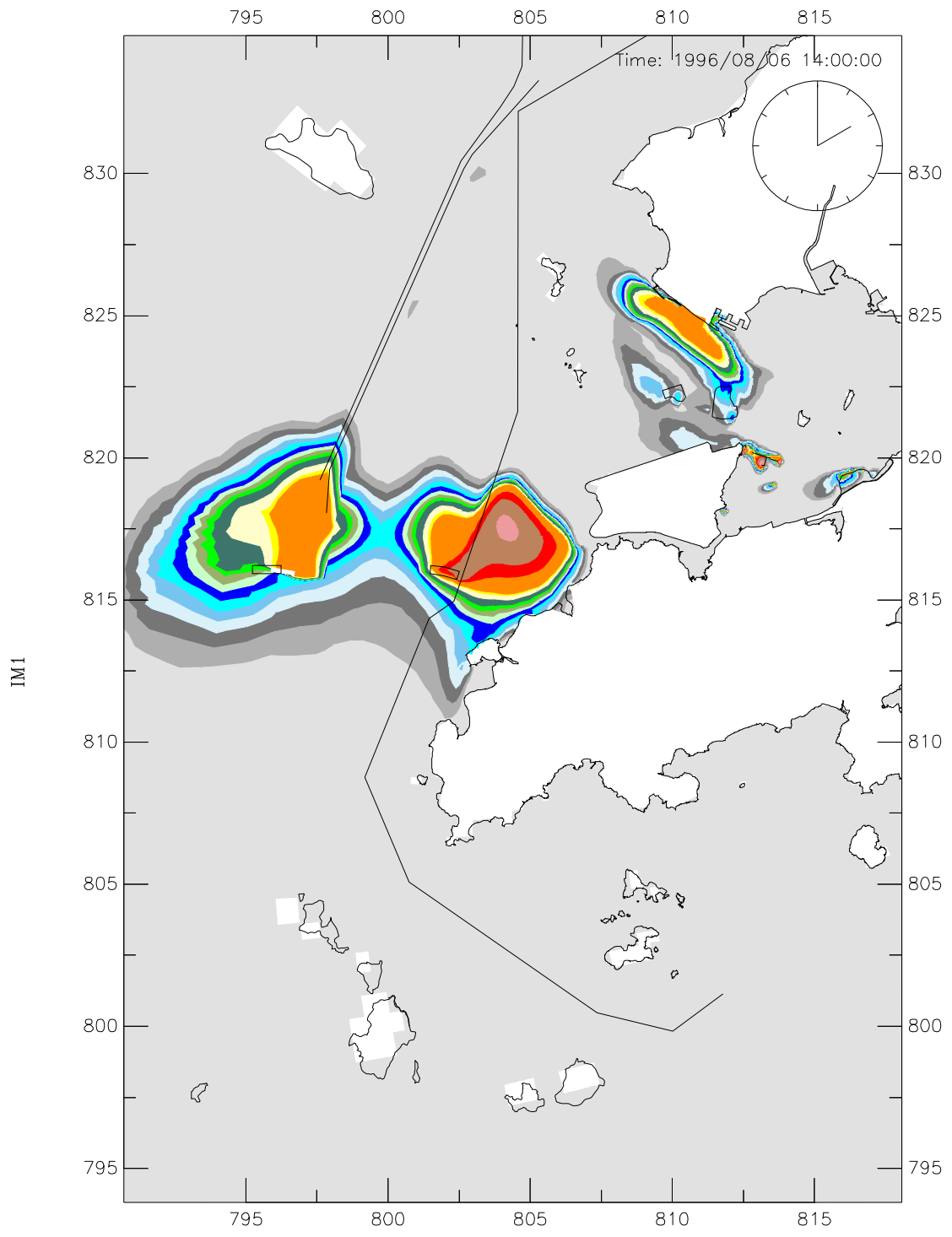
July 2009
 2011-5P-Wet (PXM1-R11g)
 Figure 034



- | | | | |
|------|-------|-------|--------|
| <2.0 | <7.0 | <13.0 | <100.0 |
| <3.0 | <8.0 | <15.0 | <200.0 |
| <4.0 | <9.0 | <16.0 | <300.0 |
| <5.0 | <10.0 | <30.0 | <400.0 |
| <6.0 | <11.0 | <50.0 | >400.0 |

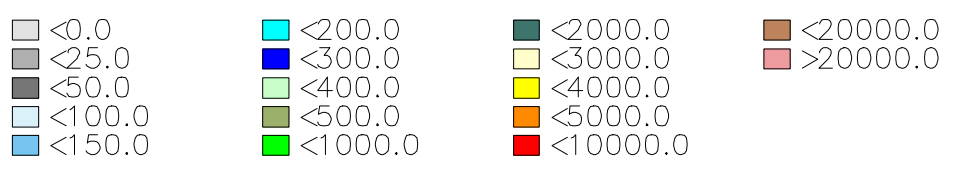
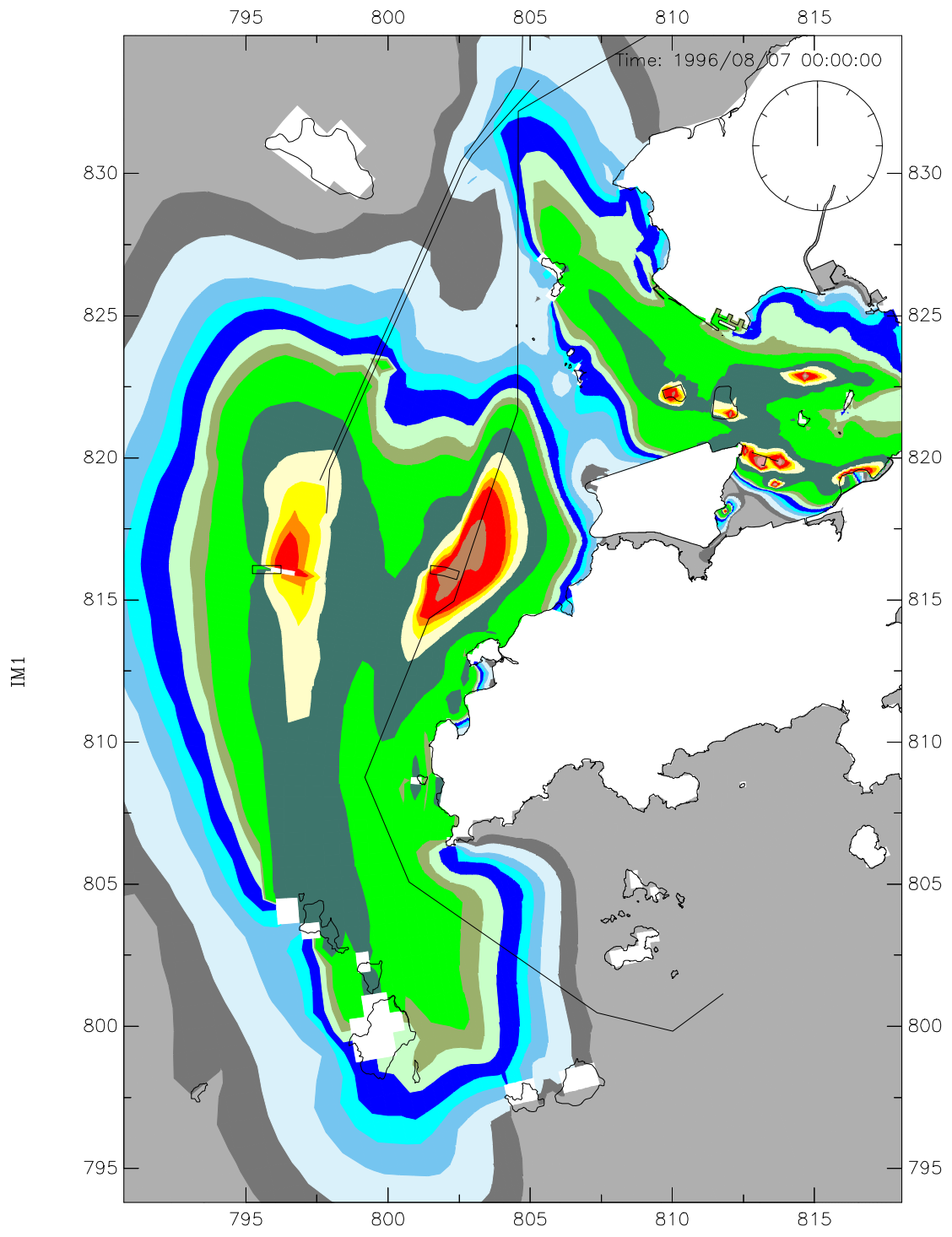
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Mid-Depth
 Neap Tide, Highest High

July 2009
 2011.5P-Wet (PXM1-R11g)
 Figure 035



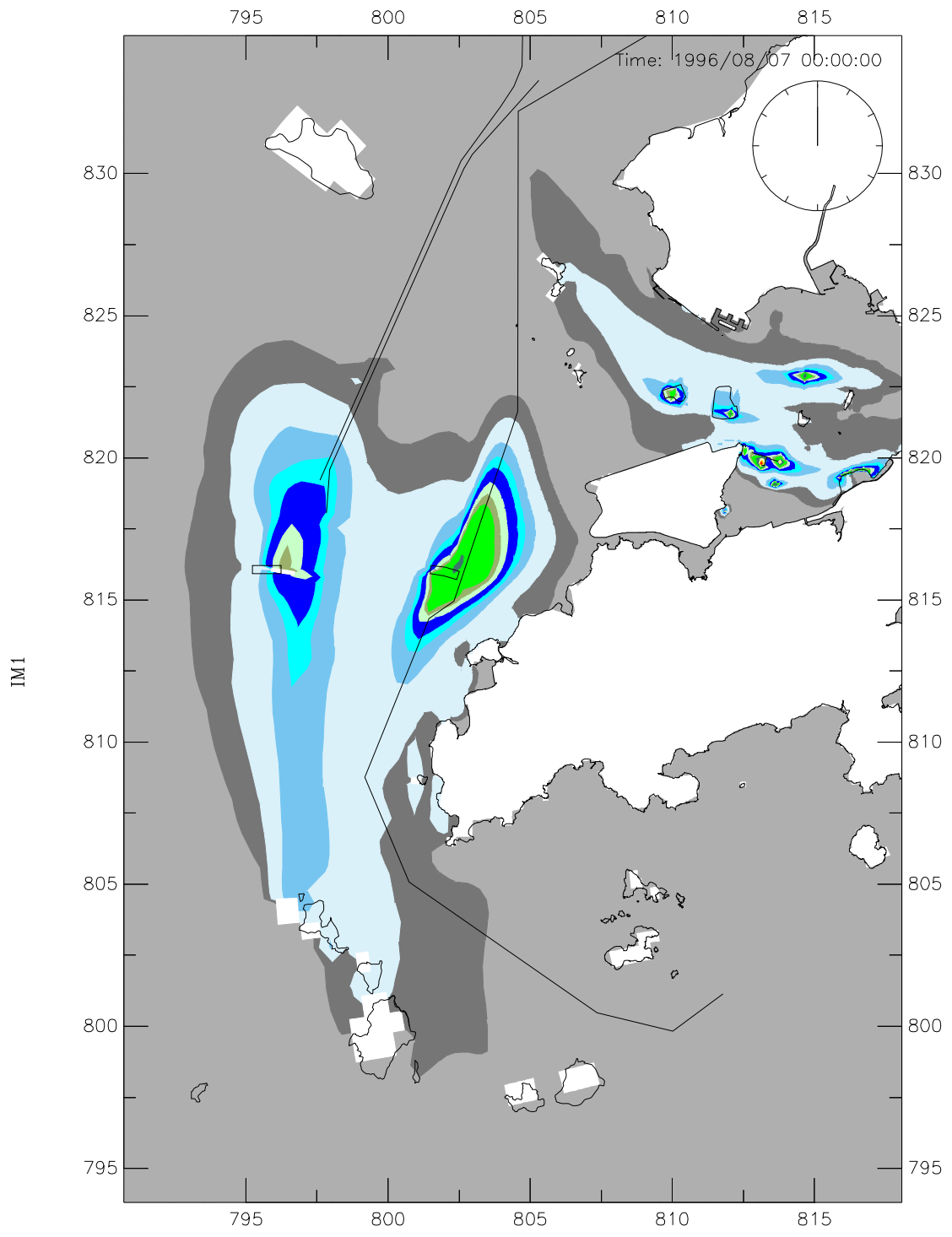
Year 2011, HZMB High Surface Overflow Sensitivity Test
 SS (mg/L) Contour, Wet Season, Bottom Layer
 Neap Tide, Highest High

July 2009
 2011.5P-Wet (PXM1-R11g)
 Figure 036



Year 2011, HZMB High Surface Overflow Sensitivity Test
 Total Deposition (g/m²) Contour, Dry Season,

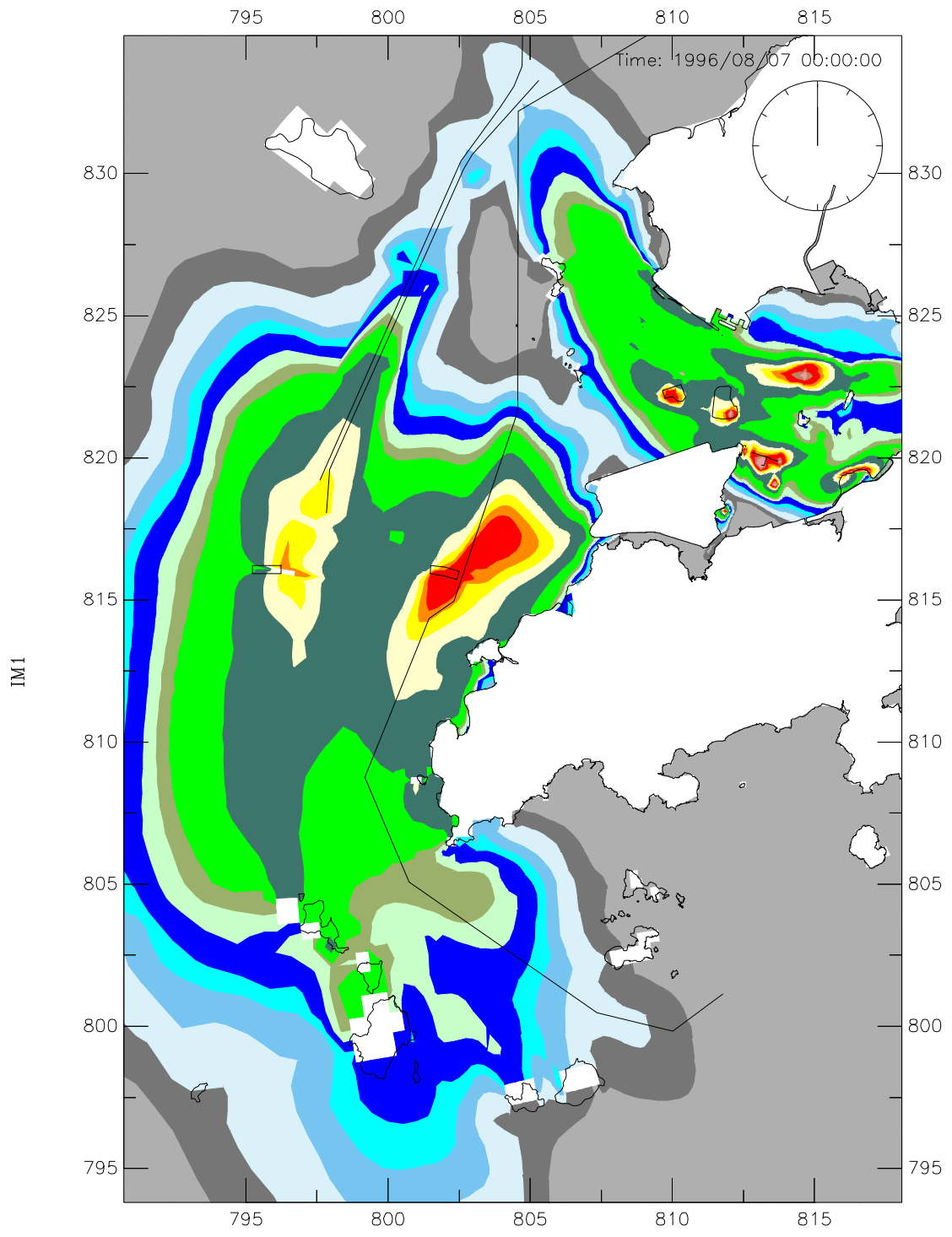
July 2009
 Figure 037
 2011.5P·Dry (PXM1·R11g)



- <0.0
 <25.0
 <50.0
 <100.0
 <150.0
- <200.0
 <300.0
 <400.0
 <500.0
 <1000.0
- <2000.0
 <3000.0
 <4000.0
 <5000.0
 <10000.0
- <20000.0
 >20000.0

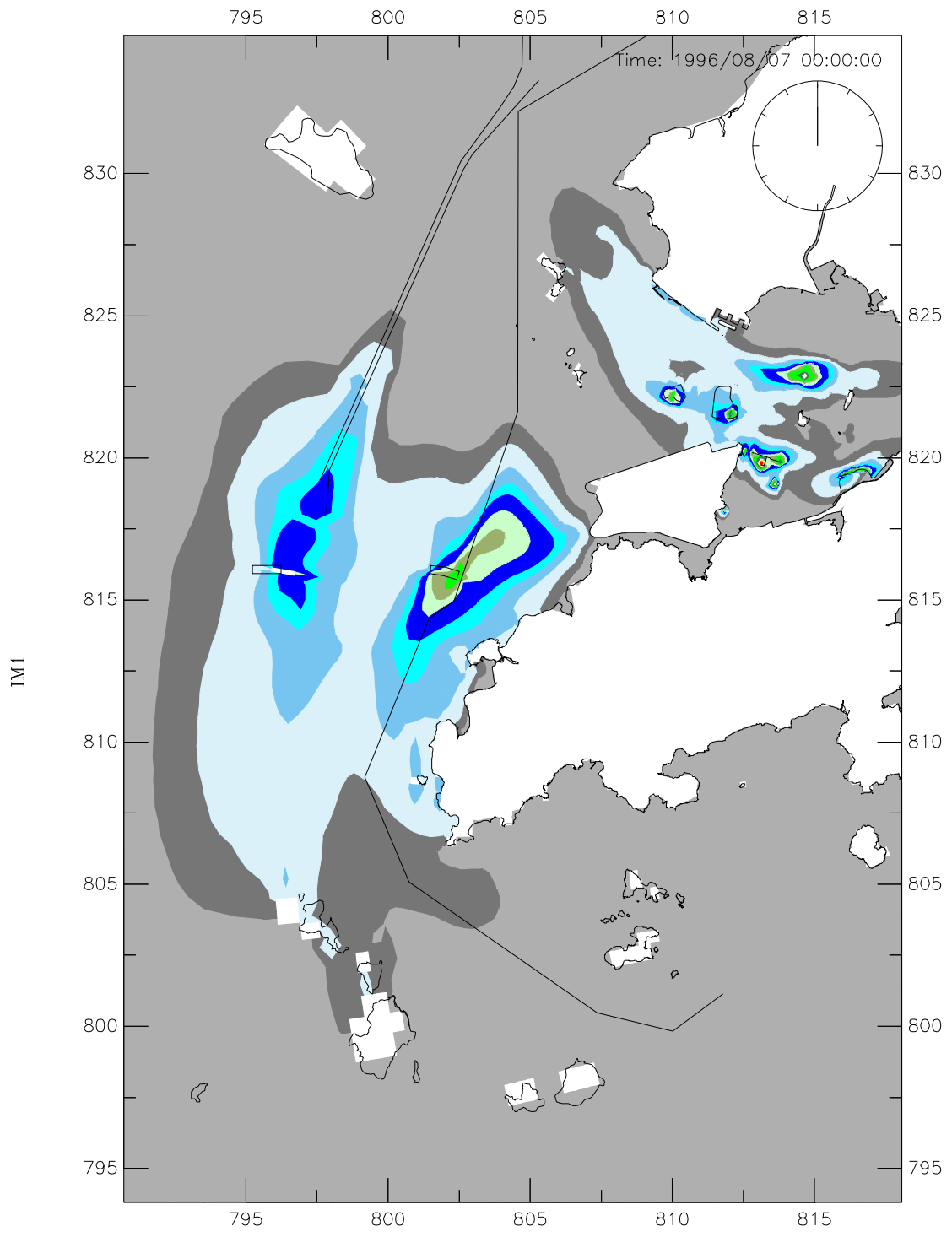
Year 2011, HZMB High Surface Overflow Sensitivity Test
 Daily Average Deposition (g/m2/day) Contour, Dry Season,

July 2009
 2011.5P-Dry (PXM1-R11g)
 Figure 038



Year 2011, HZMB High Surface Overflow Sensitivity Test
 Total Deposition (g/m²) Contour, Wet Season,

July 2009
 2011.5P-Wet (PXM1-R11g)
 Figure 039



- | | | | |
|--------|---------|----------|----------|
| <0.0 | <200.0 | <2000.0 | <20000.0 |
| <25.0 | <300.0 | <3000.0 | >20000.0 |
| <50.0 | <400.0 | <4000.0 | |
| <100.0 | <500.0 | <5000.0 | |
| <150.0 | <1000.0 | <10000.0 | |

Year 2011, HZMB High Surface Overflow Sensitivity Test
 Daily Average Deposition (g/m2/day) Contour, Wet Season,

July 2009
 Figure 040
 2011.5P-Wet (PXM1-R11g)