

OFFICE OF THE PRESIDENT

No. 1952

11 November 1994

NO. 15 OF 1994: MARITIME ZONES ACT, 1994.

It is hereby notified that the President has assented to the following Act, which is hereby published for general information:

GENERAL EXPLANATORY NOTE:

<< >> Words between pointed brackets indicate insertions in existing enactments.

ACT

provide for the maritime zones of the Republic; and to provide for matters nected therewith.

(Afrikaans text signed by the President.)
(Assented to 9 November 1994.)

BE IT ENACTED by the Parliament of the Republic of South Africa, as follows:-

Definitions

1. In this Act, unless the context otherwise indicates-

(i) "baseline" means a baseline as contemplated in subsection (1), (2) or (3) of section 2; (ii)

(ii) "installation" means any of the following situated within internal waters, territorial waters or the exclusive economic zone or on or above the continental shelf:

(a) Any installation, including a pipeline, which is used for the transfer of any substance to or from-

(i) a ship;

(ii) a research, exploration or production platform; or

(iii) the coast of the Republic.

(b) Any exploration or production platform used in prospecting for or the mining of any substance.

(c) Any exploration or production vessel.

(d) A telecommunications line as defined in section 1 of the Post Office Act, 1958 (Act No. 44 of 1958).

(e) Any vessel or appliance used for the exploration or exploitation of the seabed.

Any area situated within a distance of 500 metres measured from any point on the exterior side of an installation referred to in paragraph (a) or (b) other than a pipeline.

(g) Any area situated under or above an installation referred to in paragraph (a) or (b); (iv)

(iii) "low-tide elevation" means a naturally formed area of land which is

surrounded by water and which is above water at low tide, but submerged at high tide and situated within a distance of not more than 12 nautical miles from the low-water line of the mainland or of an island;

- (v)
- (iv) "low-water" means the mean height of low-water for a tidal cycle of 18,6 years; (vi)
- (v) "low-water line" means the intersection of the low-water tidal plane with the land and includes the low-water line on a low-tide elevation; (vii)
- (vi) "Minister" means the Minister of Transport; (viii)
- (vii) "nautical mile" means the international nautical mile of 1 852 metres; (xii)
- (viii) "officially recognised large-scale charts or maps" means large-scale charts or maps supplied by the Hydrographer of the South African Navy and the Chief Surveyor-General, respectively; (i)
- (ix) "prescribed" means prescribed by regulation; (xiii)
- (x) "right of innocent passage" means the right of innocent passage referred to in section 2 of the Marine Traffic Act, 1981 (Act No. 2 of 1981); (ix)
- (xi) "sea" means the water of the sea, as well as the bed of the sea and the subsoil thereof; (xi)
- (xii) "straight line" means the shortest distance between two points on a surface; (x)
- (xiii) "this Act" includes the regulations. (iii)

Baselines

2. (1) Subject to subsections (2) and (3) the low-water line shall be the baseline.
- (2) Notwithstanding subsection (1) straight lines joining the grouped coordinates mentioned in Schedule 2 shall be the baselines of the relevant part of the coast.
- (3) Notwithstanding subsections (1) and (2) the outer limits prescribed or determined in accordance with subsection (4) or (5) shall be the baselines.
- (4) Outer limits of internal waters referred to in section 3(1)(b) shall be established in the prescribed manner.
- (5) In the absence of any outer limits of internal waters prescribed in accordance with subsection (4), the outer limits shall be the outermost harbour works which form an integral part of the harbour system.
- (6) In any proceedings before a court of law any prescribed chart or map shall be admissible as prima facie proof of the contents thereof.

Internal waters

- 3.(1) The internal waters of the Republic shall comprise-
 - (a) all waters landward of the baselines; and

(b) all harbours.

(2) Any law in force in the Republic, including the common law, shall also apply in its internal waters and the airspace above its internal waters.

(3) The right of innocent passage shall not exist in the internal waters, except if the internal waters concerned were territorial waters before the commencement of this Act.

Territorial waters

4. (1) The sea within a distance of twelve nautical miles from the baselines shall be the territorial waters of the Republic.

(2) Any law in force in the Republic, including the common law, shall also apply in its territorial waters and the airspace above its territorial waters.

(3) The right of innocent passage shall exist in the territorial waters.

Contiguous zone

5. (1) The sea beyond the territorial waters referred to in section 4, but within a distance of twenty four nautical miles from the baselines, shall be the contiguous zone of the Republic.

(2) Within the contiguous zone and the airspace above it, the Republic shall have the right to exercise all the powers which may be considered necessary to prevent contravention of any fiscal law or any customs, emigration, immigration or sanitary law and to make such contravention punishable.

Maritime cultural zone

6. (1) The sea beyond the territorial waters referred to in section 4, but within a distance of twenty four nautical miles from the baselines, shall be the maritime cultural zone of the Republic.

(2) Subject to any other law the Republic shall have, in respect of objects of an archaeological or historical nature found in the maritime cultural zone, the same rights and powers as it has in respect of its territorial waters.

Exclusive economic zone

7. (1) The sea beyond the territorial waters referred to in section 4, but within a distance of two hundred nautical miles from the baselines, shall be the exclusive economic zone of the Republic.

(2) Subject to any other law the Republic shall have, in respect of all natural resources in the exclusive economic zone, the same rights and powers as it has in respect of its territorial waters.

Continental shelf

8. (1) The continental shelf as defined in Article 76 of the United Nations Convention on the Law of the Sea, 1982, adopted at Montego Bay on 10 December 1982, shall be the continental shelf of the Republic.

(2) Subject to any other law the outer limits of the continental shelf

shall consist of a series of straight lines joining the co-ordinates mentioned in Schedule 3.

(3) For the purposes of-

- (a) exploration and exploitation of natural resources, as defined in paragraph 4 of Article 77 of the United Nations Convention on the Law of the Sea, 1982; and
- (b) any law relating to mining of precious stones, metals or minerals, including natural oil, the continental shelf shall be deemed to be unalienated State land.

Application of laws in respect of installations

9. (1) Any law in force in the Republic, including the common law, shall also apply on and in respect of an installation.
- (2) For the purposes of subsection (1) an installation shall be deemed to be within the district, as defined in section 1 of the Magistrates' Courts Act, 1944 (Act No. 32 of 1944), designated by the Minister of Justice.
- (3) In the absence of a designation contemplated in subsection (2) an installation shall be deemed to be within the district nearest to that installation.

Maritime casualties

10. Notwithstanding this Act or any other law the Republic may, in any area of the sea or the airspace above the sea, take such measures as are necessary against any vessel or aircraft in order to protect the coastline of the Republic or related interests, including fishing, from pollution or any threat of pollution resulting from a maritime casualty or an act or omission relating to such a casualty and which may reasonably be expected to result in major harmful consequences.

Self-defence

11. Notwithstanding this Act or any other law the Republic may take such action in any area of the sea or in the airspace above the sea, as is necessary in the exercise of the principle of self-defence contained in Article 51 of the Charter of the United Nations.

Amendment of Schedule 3

12. The Minister may by notice in the Gazette amend Schedule 3. Regulations

13. The Minister may make regulations regarding-

- (a) the recognition of a low-water line indicated on officially recognised large-scale charts or maps as constituting the low-water line for the purposes of section 2(1);
- (b) the establishment of co-ordinates on the low-water line at the natural entrance points of bays and at the mouths of rivers and estuaries in addition to those co-ordinates mentioned in Schedule 2;
- (c) the definition of the outer limits of internal waters within harbours as indicated on officially recognised large-scale charts or maps;
- (d) any matter which by this Act is required or permitted to be prescribed or which may be necessary or expedient to be prescribed in order

to

achieve the objectives of this Act.

Application of Act to Prince Edward Islands

14. This Act shall also apply to the Prince Edward Islands as defined in section 1 of the Prince Edward Islands Act, 1948 (Act No. 43 of 1948).

Repeal and amendment of laws, and savings

15. (1) The laws mentioned in Schedule 1 are hereby repealed or amended to the extent set out in the third column of the Schedule.
- (2) Any reference to the internal waters, territorial waters or continental shelf in any other law shall be construed as a reference to the internal waters, territorial waters or continental shelf referred to in this Act, respectively.
- (3) Any reference to the fishing zone in any other law in relation to conservation, management or exploitation of living marine resources shall be construed as a reference to the exclusive economic zone referred to in this Act.
- (4) Any reference to the fishing zone in any other law in relation to fiscal matters or matters concerning customs, emigration, immigration or sanitation shall be construed as a reference to the contiguous zone referred to in this Act.

Short title

16. This Act shall be called the Maritime Zones Act, 1994.

Schedule I

Laws REPEALED OR AMENDED

(Section 15(1))

No. and year of Act	Title	Extent of repeal or amendment
Act No. 87 of 1963	Territorial Waters Act, 1963	Repeal of the whole
Act No. 98 of 1977	Territorial Waters Amendment Act, 1977	Repeal of the whole
Act No. 8 of 1978 (Transkei)	Territorial Waters Act, 1978	Repeal of the whole
Act No. 2 of 1981	Marine Traffic Act, 1981	Amendment of section 1 by the substitution for the definition of "internal waters" of the following definition: <<" 'internal waters' means internal waters referred to in section 3 of the Maritime Zones Act, 1994;">>
Act No. 12 of 1986 (Ciskei)	Territorial Waters Act, 1986	Repeal of the whole
Act No. 12 of 1988	Sea Fishery Act, 1988	Amendment of section 1 by the

substitution for the definition of "fishing zone" of the following definition:

<<" 'fishing zone' means the territorial waters of the Republic and the exclusive economic zone referred to in sections 4 and 7 of the

Mari-
re-

time Zones Act, 1994, respectively;">>

Act No. 129 of 1993 General Law Third Amendment Act, 1993

Repeal of sections 30 and 31

Schedule 2

STRAIGHT BASELINES OF THE REPUBLIC OF SOUTH AFRICA

(These co-ordinates are based on the WGS84 Spheroid to an accuracy of 1" (arc))

Latitude South ' "	Longitude East ' "	Latitude South ' "	Longitude East ' "
32 19 01.04	18 18 54.50	34 01 44.04	18 18 19.82
32 44 12.00	17 52 06.00	34 01 44.33	18 18 19.78
32 44 12.00	17 52 06.00	34 01 44.33	18 18 19.78
32 49 06.25	17 50 47.43	34 02 12.78	18 18 18.31
32 49 06.25	17 50 47.43	34 02 12.78	18 18 18.31
32 49 29.09	17 50 40.60	34 02 42.02	18 18 23.37
32 49 29.09	17 50 40.60	34 02 42.02	18 18 23.37
32 49 30.75	17 50 40.34	34 03 56.86	18 18 35.74
32 49 30.75	17 50 40.34	34 03 56.86	18 18 35.74
32 49 41.32	17 50 44.24	34 08 45.60	18 19 09.69
32 49 41.32	17 50 44.24	34 23 15.31	18 49 37.02
33 00 02.00	17 51 48.00	34 38 23.66	19 17 19.40
33 00 02.00	17 51 48.00	34 38 23.66	19 17 19.40
33 02 29.08	17 53 30.62	34 38 24.23	19 17 21.14
33 02 29.08	17 53 30.62	34 38 24.23	19 17 21.14
33 09 07.08	17 58 48.10	34 41 24.43	19 24 09.05
33 09 07.08	17 58 48.10	34 41 24.43	19 24 09.05
33 24 51.08	18 04 23.49	34 46 53.08	19 38 05.33
33 24 51.08	18 04 23.49	34 46 53.08	19 38 05.33
33 26 00.50	18 04 23.59	34 47 19.28	19 39 09.17
33 26 00.50	18 04 23.59	34 47 19.28	19 39 09.17
33 26 08.45	18 04 24.91	34 47 19.82	19 39 10.62
33 26 08.45	18 04 24.91	34 47 19.82	19 39 10.62
33 26 08.58	18 04 25.24	34 47 19.88	19 39 11.86
33 26 08.58	18 04 25.24	34 47 19.88	19 39 11.86
33 48 07.47	18 21 28.13	34 49 52.73	19 58 04.62
33 48 07.47	18 21 28.13	34 49 52.73	19 58 04.62
34 01 44.04	18 18 19.82	34 49 53.34	19 58 07.83
34 49 53.34	19 58 07.83	34 26 16.04	21 18 38.90
34 50 06.29	19 59 26.45	34 26 15.54	21 18 40.94
34 50 06.29	19 59 26.45	34 26 15.54	21 18 40.94
34 50 06.26	19 59 27.04	34 23 43.55	21 43 48.63
34 50 06.26	19 59 27.04	34 23 43.55	21 43 48.63
34 50 04.57	19 59 51.13	34 20 18.88	21 54 54.01

34 50 04.57	19 59 51.13	34 20 18.88	21 54 54.01
34 50 02.46	20 00 22.48	34 11 15.44	22 09 39.74
34 50 02.46	20 00 22.48	34 11 15.44	22 09 39.74
34 50 01.59	20 00 26.57	34 05 43.00	22 58 48.00
34 50 01.59	20 00 26.57	34 05 43.00	22 58 48.00
34 49 53.62	20 00 52.57	34 06 40.43	23 24 25.37
34 49 53.62	20 00 52.57	34 06 40.43	23 24 25.37
34 48 48.42	20 03 19.31	34 12 49.36	24 50 12.70
34 48 48.42	20 03 19.31	34 12 49.36	24 50 12.70
34 48 47.51	20 03 21.27	34 12 49.81	24 50 14.69
34 48 47.51	20 03 21.27	34 12 49.81	24 50 14.69
34 48 42.82	20 03 29.04	34 12 49.28	24 50 16.66
34 48 42.82	20 03 29.04	34 12 49.28	24 50 16.66
34 28 28.22	20 50 53.92	34 02 58.11	25 37 41.59
34 28 28.22	20 50 53.92	34 02 58.11	25 37 41.59
34 26 18.84	21 17 58.22	34 01 56.36	25 42 10.97
34 26 18.84	21 17 58.22	34 01 56.36	25 42 10.97
34 26 19.51	21 18 00.22	33 50 34.37	26 17 18.45
34 26 19.51	21 18 00.22	33 50 34.37	26 17 18.45
34 26 18.93	21 18 10.18	33 50 34.29	26 17 22.50
34 26 18.93	21 18 10.18	33 50 34.29	26 17 22.50
34 26 16.04	21 18 38.90	33 46 23.96	26 28 07.66

Schedule 3

LIMITS OF THE CONTINENTAL SHELF OF THE REPUBLIC OF SOUTH AFRICA

(These co-ordinates are based on the WGS84 Spheroid to an accuracy of 10" (arc))

Latitude	Longitude	Latitude	Longitude
South	East	South	East
' "	' "	' "	' "
MAINLAND		34 51 50	11 13 30
21 41 20	08 16 00	35 01 10	11 17 10
22 16 40	08 08 50	35 10 10	11 20 50
22 23 00	08 07 50	35 13 10	11 21 50
22 31 40	08 06 50	35 18 10	11 22 50
23 23 00	08 05 20	35 50 00	11 31 10
23 27 50	08 05 30	36 14 00	11 40 10
23 44 30	08 05 40	36 43 50	11 53 50
23 46 00	08 05 40	36 46 40	11 55 20
23 47 10	08 05 30	37 39 30	12 30 40
24 23 00	08 05 00	37 54 30	12 43 50
24 53 00	08 07 40	38 11 20	13 00 30
25 23 00	08 09 40	38 26 30	13 17 30
26 21 50	08 22 10	38 32 20	13 24 30
26 26 30	08 23 40	39 00 10	14 04 20
26 54 20	08 27 50	39 06 30	14 14 40
27 21 20	08 31 20	39 18 00	14 35 50
27 28 50	08 32 50	39 37 50	15 20 10
28 13 50	08 45 00	39 50 30	15 57 10
28 19 40	08 46 40	39 57 50	16 15 30
28 26 10	08 48 30	39 58 50	16 17 50
28 35 40	08 51 20	40 03 50	16 30 20
28 42 50	08 53 30	40 25 20	17 43 10
29 11 50	09 02 10	40 34 00	18 34 20
29 17 40	09 04 20	40 37 20	19 00 00
30 07 00	09 27 50	40 40 30	19 59 30
30 11 30	09 30 10	40 40 10	20 18 30
30 13 00	09 30 50	40 40 00	20 23 50

30 42 00	09 47 10	40 38 30	20 46 20
31 05 00	10 02 00	40 32 00	21 36 20
31 06 20	10 02 50	40 16 30	22 40 20
31 16 50	10 10 30	40 13 10	22 50 40
31 50 20	10 39 10	40 08 00	23 05 20
31 53 40	10 42 20	40 05 00	23 24 00
31 55 00	10 43 40	40 04 50	23 24 50
31 57 30	10 44 30	40 00 50	23 44 40
32 30 30	10 56 40	39 59 50	23 49 00
32 53 20	10 55 10	39 59 50	23 49 10
33 19 40	10 55 40	40 01 30	24 05 50
33 50 30	10 58 20	40 02 20	25 23 40
33 53 10	10 58 50	39 52 00	26 40 20

39 47 20	27 00 50	34 12 30	38 02 10
39 41 50	27 30 50	34 12 10	38 02 30
39 36 10	27 55 10	34 11 40	38 02 40
39 26 00	28 29 30	34 00 20	38 11 20
39 19 50	28 46 30	33 49 40	38 17 10
39 13 20	29 06 40	33 49 20	38 17 20
39 08 40	29 19 50	33 37 00	38 22 10
38 55 50	29 53 30	33 36 30	38 22 20
38 49 20	30 09 50	33 36 00	38 22 30
38 47 00	30 15 40	33 34 50	38 22 50
38 39 50	30 32 00	33 33 40	38 23 20
38 29 00	30 54 50	33 32 20	38 23 40
38 29 00	30 55 00	33 06 10	38 27 10
38 15 00	31 20 00	33 06 00	38 27 10
38 06 10	31 34 10	33 05 50	38 27 10
37 52 40	31 55 20	33 05 40	38 27 10
37 52 40	31 55 30	33 05 30	38 27 10
37 49 30	32 00 30	33 05 20	38 27 10
37 37 50	32 19 20	33 05 10	38 27 10
37 34 10	32 24 40	33 05 00	38 27 10
37 15 30	32 50 00	32 50 30	38 25 40
37 11 40	32 55 00	32 47 50	38 25 10
36 58 40	33 12 30	32 46 00	38 24 40
35 24 10	37 12 20	32 45 50	38 24 40
35 18 40	37 19 50	32 42 10	38 24 00
35 09 30	37 30 00	32 38 30	38 23 00
35 09 20	37 30 10	32 32 50	38 24 50
35 09 10	37 30 20	32 08 00	38 28 00
35 08 50	37 30 40	32 07 50	38 28 00
35 08 30	37 31 00	32 07 40	38 28 00
35 08 10	37 31 20	32 07 30	38 28 00
34 52 20	37 44 10	32 07 20	38 28 00
34 47 40	37 46 50	32 07 10	38 28 00
34 40 50	37 50 30	32 07 00	38 27 50
34 27 20	37 55 40	32 06 50	38 27 50
34 22 50	37 56 50	32 06 40	38 27 50
34 22 00	37 57 20	32 06 30	38 27 50
34 20 30	37 58 10	32 06 20	38 27 50
34 16 00	38 00 20	32 06 10	38 27 50
34 15 30	38 00 40	32 06 00	38 27 50
34 14 00	38 01 30	32 05 50	38 27 50

32 05 40	38 27 50	PRINCE EDWARD ISLANDS	
32 05 30	38 27 50	41 54 40	44 39 50
32 05 20	38 27 50	42 33 00	43 50 10
31 48 00	38 25 50	41 18 20	45 43 10
31 43 20	38 24 40	41 03 20	46 16 40
31 39 30	38 23 30	40 48 50	46 52 10
31 38 20	38 23 10	40 27 00	48 05 10
31 33 50	38 21 40	40 14 00	49 21 40

31 33 30	38 21 30	40 11 20	49 54 50
31 33 20	38 21 30	40 08 30	49 56 20
31 32 50	38 21 20	40 08 00	49 58 00
31 25 00	38 18 10	40 07 50	49 58 40
31 24 10	38 17 50	40 06 30	50 03 50
31 23 30	38 18 10	40 05 20	50 10 00
31 22 20	38 19 00	40 05 10	50 10 50
31 22 10	38 19 10	40 05 00	50 11 40
31 12 10	38 25 10	40 04 20	50 15 20
31 07 40	38 27 30	40 04 10	50 15 40
31 07 20	38 27 40	40 04 00	50 16 30
30 54 50	38 32 40	40 03 00	50 21 00
30 54 20	38 32 50	40 01 50	50 26 10
30 47 00	38 34 40	40 01 40	50 26 50
30 46 40	38 34 50	40 01 30	50 27 30
30 46 30	38 34 50	40 01 20	50 28 30
30 45 20	38 35 20	39 58 40	50 37 30
30 44 10	38 35 50	39 45 10	51 22 20
30 45 10	38 35 20	39 44 30	51 24 40
30 38 30	38 38 20	39 44 20	51 25 10
30 27 00	38 42 50	39 44 10	51 25 40
30 17 10	38 46 10	39 44 00	51 26 10
30 11 40	38 48 00	39 40 40	51 35 00
29 58 20	38 52 50	39 40 10	51 36 10
29 50 20	38 55 30	39 38 30	51 40 20
29 39 30	38 58 30	39 35 00	51 47 50
29 36 20	38 59 30	39 34 50	51 48 10
29 35 20	38 59 40	39 34 40	51 48 30
29 29 10	39 01 10	39 34 30	51 48 50
29 14 50	39 04 20	39 34 20	51 49 10
		39 34 10	51 49 30
		39 34 00	51 49 50
		39 33 50	51 50 10

39 33 40	51 50 30	38 49 20	53 56 10
39 33 30	51 50 50	38 45 50	54 04 30
39 33 20	51 51 10	38 42 50	54 11 10
39 33 10	51 51 30	38 42 40	54 11 30
39 33 00	51 51 50	38 42 30	54 11 50
39 29 00	51 59 10	38 42 20	54 12 10
39 27 00	52 02 30	38 33 50	54 26 30
39 16 50	52 16 50	38 33 30	54 26 50
39 16 20	52 17 40	38 18 40	54 44 50
39 08 10	52 26 40	38 18 30	54 45 00
39 07 50	52 27 10	38 11 30	54 51 20
39 07 10	52 27 50	37 41 10	55 07 40
39 03 50	52 31 50	37 15 00	55 11 20
39 02 10	52 33 50	37 14 40	55 11 40
39 02 10	52 36 50	37 12 20	55 15 20
39 02 10	52 37 00	37 12 00	55 15 40
39 02 10	52 38 00	36 57 20	55 33 30
39 02 10	52 39 00	36 48 30	55 41 10
39 02 10	52 40 00	36 48 20	55 42 10
39 02 10	52 41 00	36 48 10	55 42 50
39 02 10	52 42 00	36 44 50	55 53 50
39 02 10	52 43 00	36 44 40	55 54 20
39 02 10	52 44 00	36 44 30	55 55 10
39 02 10	52 45 00	36 39 00	56 09 20
39 02 10	52 46 00	36 38 20	56 10 30
39 02 10	52 47 00	36 36 40	56 18 10
39 02 10	52 48 00	36 36 30	56 18 50
39 02 10	52 49 00	36 33 20	56 29 50
39 02 10	52 49 30	36 33 10	56 30 20
39 01 30	53 02 50	36 31 00	56 36 10

39 00 40	53 12 10	36 29 30	56 40 00
38 59 30	53 19 40	36 24 40	56 50 40
38 57 40	53 29 10	36 24 30	56 51 00
38 53 20	53 45 10	36 24 20	56 51 20
38 53 10	53 45 40	36 24 10	56 51 40
38 53 00	53 46 00	36 24 00	56 52 00
38 52 50	53 46 30	36 23 50	56 52 20
38 52 40	53 47 00	36 23 20	56 53 20
38 52 20	53 47 50	36 22 50	56 55 10
38 52 10	53 48 30	36 13 40	57 16 20
38 50 10	53 54 00	35 53 00	57 44 00

35 52 50	57 44 10	31 33 20	55 28 50
35 31 40	58 00 00	31 33 20	55 28 40
35 29 20	58 04 30	31 33 20	55 28 30
35 17 50	58 21 20	31 33 20	55 28 10
35 09 10	58 30 50	31 33 20	55 22 40
35 09 00	58 31 00	31 35 20	55 04 40
34 57 30	58 40 50	31 37 40	54 53 20
34 43 00	58 49 30	31 40 40	54 42 50
34 42 20	58 49 50	31 52 30	54 17 00
34 30 10	58 54 40	31 55 40	54 12 00
34 23 10	58 56 30	31 56 20	54 11 00
34 02 10	58 58 40	32 00 30	54 05 10
34 02 00	58 58 40	32 10 50	53 52 50
34 01 50	58 58 40	32 11 10	53 52 30
34 01 40	58 58 40	32 11 40	53 52 10
34 01 30	58 58 40	32 14 50	53 49 00
34 01 20	58 58 40	32 20 30	53 35 40
34 01 10	58 58 40	32 20 40	53 35 20
34 01 00	58 58 40	32 28 50	53 21 20
34 00 50	58 58 40	32 34 50	53 13 10
33 44 00	58 56 30	32 41 30	52 57 30
33 33 40	58 53 30	32 41 40	52 57 10
32 56 20	58 29 20	33 03 30	52 26 20
32 56 10	58 29 10	33 03 50	52 26 00
32 56 00	58 29 00	33 04 40	52 25 00
32 55 50	58 28 50	33 29 20	52 06 50
32 51 20	58 24 00	33 29 40	52 06 40
32 37 10	58 03 40	33 30 00	52 06 30
32 22 30	57 51 10	33 55 00	51 57 50
32 22 10	57 51 00	33 57 50	51 54 10
32 22 00	57 50 40	34 05 10	51 45 40
32 21 50	57 50 30	34 05 20	51 45 30
32 08 50	57 34 40	34 05 30	51 45 20
32 07 40	57 33 00	34 05 40	51 45 10
32 00 00	57 19 30	34 05 50	51 45 00
31 59 50	57 19 10	34 06 00	51 44 50
31 52 40	57 02 00	34 06 10	51 44 40
31 46 10	56 30 30	34 06 20	51 44 30
31 45 50	56 27 20	34 22 00	51 31 20
31 35 20	55 52 30	34 32 30	51 25 10
31 33 20	55 29 00	34 32 50	51 25 00

34 35 50	51 23 20	36 15 10	47 01 50
34 44 10	51 10 00	36 20 30	46 52 00
34 49 00	51 03 50	36 23 20	46 47 40
34 51 40	50 59 00	36 37 50	46 29 40
34 55 10	50 53 20	36 38 00	46 29 30
34 58 00	50 49 20	36 38 30	46 28 50
35 10 20	50 34 20	36 38 50	46 27 50
35 10 40	50 34 00	36 41 30	46 17 10
35 10 50	50 33 50	36 42 10	46 14 20
35 11 00	50 33 40	36 24 30	45 58 30

35 11 10	50 33 30	36 05 40	45 30 40
35 11 20	50 33 20	36 05 30	45 30 10
35 11 30	50 33 10	35 54 50	45 01 00
35 11 50	50 33 00	35 53 40	44 56 10
35 12 00	50 32 50	35 50 10	44 23 50
35 12 10	50 32 40	35 50 10	44 23 40
35 12 20	50 32 30	35 50 10	44 23 30
35 12 30	50 32 20	35 50 10	44 23 20
35 21 00	50 24 30	35 50 10	44 23 10
35 20 00	50 15 30	35 50 10	44 22 50
35 19 40	50 05 00	35 50 10	44 22 40
35 19 40	50 04 40	35 50 10	44 22 30
35 19 40	50 04 30	35 50 10	44 22 20
35 19 40	50 04 20	35 50 10	44 22 00
35 19 40	50 04 10	35 50 10	44 21 50
35 19 40	50 03 50	35 50 10	44 21 40
35 31 50	49 04 40	35 53 10	43 51 10
35 34 40	48 58 40	35 55 00	43 43 20
35 34 50	48 58 20	35 56 20	43 38 30
35 42 50	48 44 20	35 56 40	43 37 20
35 49 50	48 34 40	35 58 40	43 30 40
35 50 40	48 31 10	36 00 40	43 24 00
35 53 10	48 12 00	36 08 20	43 05 30
35 53 20	48 11 10	36 08 30	43 05 10
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35 57 00	47 56 30	36 08 50	43 04 30
35 58 40	47 51 10	36 09 00	43 04 10
35 58 50	47 50 40	36 09 10	43 03 50
36 02 00	47 42 00	36 09 20	43 03 30
36 02 30	47 39 20	36 09 30	43 03 10
36 05 40	47 26 40	36 09 40	43 02 50

36 09 50	43 02 30	38 26 20	41 00 50
36 13 00	42 56 30	38 26 40	41 00 40
36 16 50	42 49 50	38 27 00	41 00 30
36 22 40	42 41 00	38 27 20	41 00 20
36 23 50	42 39 10	38 32 10	40 57 50
36 25 10	42 37 30	38 34 10	40 50 50
36 28 10	42 33 30	38 43 30	40 26 50
36 28 50	42 32 40	38 43 40	40 26 30
36 33 00	42 27 40	38 43 50	40 26 10
36 38 40	42 21 30	38 44 00	40 25 50
36 38 50	42 21 10	38 44 10	40 25 20
36 39 10	42 21 00	38 44 20	40 25 00
36 39 20	42 20 40	38 44 30	40 24 40
36 39 40	42 20 30	38 44 40	40 24 20
36 39 50	42 20 10	38 44 50	40 24 00
36 40 20	42 19 50	38 45 00	40 23 40
36 45 10	42 15 10	38 45 10	40 23 20
36 48 50	42 11 40	38 45 20	40 23 00
36 50 00	42 10 40	38 45 30	40 22 40
36 55 00	42 06 30	38 50 50	40 13 00
36 57 30	42 04 30	38 52 40	40 10 00
37 01 50	42 01 20	38 57 50	40 02 10
37 03 00	42 00 30	39 02 30	39 56 00
37 03 20	42 00 10	39 05 50	39 51 50
37 04 00	41 59 40	39 12 10	39 44 50
37 04 40	41 59 10	39 12 20	39 44 40
37 07 30	41 57 00	39 12 30	39 44 30
37 08 40	41 56 10	39 12 40	39 44 20
37 11 30	41 54 10	39 12 50	39 44 10
37 15 50	41 51 20	39 13 00	39 44 00
37 26 40	41 45 20	39 13 10	39 43 50
37 29 10	41 44 20	39 13 30	39 43 40

37 34 00	41 42 10	39 13 30	39 43 20
37 37 30	41 40 50	39 25 20	39 32 50
37 49 00	41 27 10	39 29 10	39 30 10
38 02 10	41 15 40	39 33 30	39 27 20
38 14 20	41 08 00	39 40 00	39 23 30
38 14 40	41 07 50	39 40 20	39 23 20
38 15 00	41 07 40	39 40 40	39 23 10
38 15 20	41 07 30	39 41 00	39 23 00
38 15 40	41 07 20	39 48 00	39 19 40
39 50 50	39 18 30	45 12 00	29 40 00
39 54 30	39 17 00	45 31 20	29 30 30
39 58 40	39 15 30	46 29 40	29 11 40
40 02 10	39 14 30	46 40 30	29 09 50
40 06 40	39 13 20	47 29 20	29 07 00
40 13 30	39 12 00	47 59 00	29 10 10
40 17 50	39 06 20	48 28 50	29 17 20
40 18 30	39 05 30	49 26 00	29 43 20
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40 28 10	38 54 20	50 04 00	30 10 50
40 28 30	38 54 00	50 53 10	31 02 50
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40 28 50	38 53 40	51 35 50	32 09 10
40 29 00	38 53 20	51 35 50	32 09 30
40 29 20	38 53 00	51 36 00	32 09 30
40 36 00	38 46 50	51 57 40	32 55 50
40 43 10	38 40 50	52 10 10	33 28 30
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40 49 30	38 20 20	52 50 30	37 07 00
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42 16 10	32 34 30	52 24 40	41 22 20
42 57 40	31 36 00	51 55 20	42 47 00
43 09 40	31 22 10	51 36 40	43 25 40
43 24 50	31 06 00	51 36 30	43 26 00
43 26 50	31 03 50	51 36 20	43 26 30
43 27 00	31 03 40	51 16 40	44 00 10
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43 27 20	31 03 20	43 04 20	44 30 40
43 44 40	30 45 10	42 22 00	43 33 20
44 35 50	30 02 10		