

PERMANENT COURT OF ARBITRATION
ARBITRATION UNDER ANNEX VII OF THE UNITED NATIONS
CONVENTION ON THE LAW OF THE SEA

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 In the Matter of Arbitration :
 Between: :
 :
 REPUBLIC OF GUYANA, :
 : Case No. 2004-4
 Claimant, :
 : PCA Reference GU-SU
 and :
 :
 REPUBLIC OF SURINAME, :
 :
 Respondent. :
 :
 - - - - - x Volume 6

Thursday, December 14, 2006

Organization of American States
17th Street and Constitution Avenue, N.W.
Guerrero Conference Room, Second Floor
Washington, D.C.

The hearing in the above-entitled matter convened at
9:32 a.m. before:

- H.E. JUDGE L. DOLLIVER M. NELSON, President
- PROF. THOMAS M. FRANCK, Arbitrator
- DR. KAMAL HOSSAIN, Arbitrator
- PROF. IVAN SHEARER, Arbitrator
- PROF. HANS SMIT, Arbitrator

Permanent Court of Arbitration:

MR. BROOKS W. DALY, Registrar
MR. DANE RATLIFF

Tribunal Hydrographer:

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1 P R O C E E D I N G S

2 PRESIDENT NELSON: Good morning. I can do nothing
3 else but give the floor to Professor Bernie Oxman.

4 CONTINUED OPENING STATEMENT BY COUNSEL FOR RESPONDENT

5 PROFESSOR OXMAN: Thank you, Mr. President.

6 Mr. President, distinguished members of this Tribunal,
7 it is a singular honor to have the opportunity to appear before
8 you and to be asked to do so on behalf of the Republic of
9 Suriname.

10 Mr. President, before proceeding, I would like to ask
11 your indulgence on two points. First, I seem overnight to have
12 acquired a frog in my throat. This is probably from too much
13 practicing before the mirror. In any event, I do hope you will
14 excuse me.

15 And the second is that I really will do my very best
16 to minimize repetition of points made by my colleagues
17 yesterday, but I fear that some reference to the same points
18 will be unavoidable if the train of my thought is to be
19 followed.

20 Mr. President, Guyana has requested that this Tribunal
21 establish a single maritime boundary to the 200-mile limit.
22 Suriname agrees.

23 The single maritime boundary advocated by each of the
24 parties proceeds along a single azimuth from the low-water line
25 to the 200-mile limit. Guyana has, nevertheless, argued that

09:33:26 1 this should be a two-step process, and Guyana has structured
2 its presentations in these hearings in that way. Accordingly,
3 with a view to facilitating the Tribunal's task at this
4 hearing, I will plan to do the same.

5 And thus, I propose first to concentrate on the
6 delimitation of the 12-mile territorial sea and related
7 questions concerning the contiguous zone, and following that I
8 would propose, with the Tribunal's permission, to address
9 certain aspects of the law applicable to the establishment of a
10 single maritime boundary with principal reference to the
11 Exclusive Economic Zone and the continental shelf. I should
12 emphasize, however, that it remains Suriname's position that
13 the entire maritime boundary both within and beyond the
14 territorial sea should follow a single azimuth; namely, 10
15 degrees east of north.

16 Let me now turn to the positions of the parties with
17 respect to the territorial sea.

18 Suriname believes that Guyana's territorial sea may
19 not extend east of the 10-degree line. Guyana has put forward
20 a different line. It shares three characteristics with the
21 10-degree line: It's comprised of a single segment following a
22 fixed azimuth, the azimuth is oriented with reference to the
23 1936 Point, and the line would divide the entire 12-mile
24 territorial sea as well as the waters beyond.

25 There are two basic differences between the lines

09:35:17 1 advocated by the parties. One concerns the direction of the
2 line; the second concerns its starting point, about which we
3 heard a great deal yesterday.

4 The direction of the two lines is markedly different.
5 The 10-degree direction of Suriname's line in the territorial
6 sea is rooted in the joint work of the colonial powers
7 regarding the identification and establishment of a territorial
8 sea boundary in the 1930s; it is rooted in the logic and
9 continuing relevance of their analysis of the direction of the
10 boundary in light of the Netherlands' and now Suriname's
11 sovereignty extending to both banks of the Corantijn River, and
12 it is rooted in the consistent and concerted behavior of the
13 colonial powers in their dealings with each other over many
14 years regarding the 10-degree boundary in the territorial sea.

15 By contrast, the direction of Guyana's line was
16 unilaterally selected by Guyana to mark its claims. Suriname
17 wasn't consulted.

18 At the start of his remarks on the first day of these
19 hearings, my distinguished colleague Professor Sands stated
20 that this case was brought to resolve an outstanding dispute on
21 the maritime boundary and nothing else.

22 Mr. President, it is important to consider precisely
23 what this means. The function of a maritime boundary is to
24 delimit sovereignty and jurisdiction at sea.

25 Rivers are not part of the sea. The starting point of

09:37:12 1 the territorial sea boundary between adjacent states is the
2 point where the frontier separating their land territory,
3 including their rivers, meets the sea. The land frontier can
4 separate two parts of dry land. The land frontier can separate
5 two parts of a river, and we will see examples of this a bit
6 later in my presentation; or, in this case, the land frontier
7 can separate a river on one side and dry land, as it were for
8 want of a better term, on the other side, although I realize
9 not all of Guyana's land is necessarily dry all the time.

10 Accordingly in this case, the starting point of the
11 territorial sea boundary is the point where the frontier
12 between Suriname's river and Guyana's dry land ends at the
13 low-water line of the sea. Guyana has not established where
14 that point is. The 1936 Point cannot mark the start of the
15 territorial sea boundary because the 1936 Point is located
16 landward of the legally relevant low-water line. As specified
17 in Article 5 of the Law of the Sea Convention, the legally
18 relevant low-water line is the one, and I quote, "marked on
19 large-scale charts officially recognized by the coastal state."

20 For purposes of identifying the low-water line in
21 these proceedings, I note that Guyana has relied on U.S. charts
22 and that Suriname has relied on the largest scale Dutch and
23 British charts.

24 It is indisputable that the 1936 Point was selected so
25 as to locate the position of the 10-degree line as the

09:39:18 1 territorial sea boundary. That was the very reason for
2 changing the direction of the azimuth from 28 degrees to 10
3 degrees. That was the very reason for building what my
4 distinguished colleague Professor Akhavan accurately called a
5 navigation beacon. It is in that context and only in that
6 context that the point on the low-water line marking the
7 beginning of the 10-degree territorial sea boundary was also
8 the point where the frontier between Suriname's river and
9 Guyana's dry land would terminate.

10 Guyana's attempt in these proceedings to substitute
11 vague notions of proximity to select first one and then another
12 arbitrary point on the low-water line as the terminus of the
13 land frontier is unprecedented and has no basis in law. This,
14 then, is the dilemma. Guyana's understandable desire to extend
15 its territorial sea east of the 10-degree line has unhinged
16 this case. Its ambitions compelled Guyana to seek to divorce
17 the 10-degree line from the terminus of the land frontier.
18 That provokes a dispute between the parties regarding the
19 extent of the land frontier and its terminus at the sea. That
20 dispute, in turn, creates a fundamental jurisdictional obstacle
21 to proceeding with this case, not to mention a basic
22 substantive problem in deciding precisely where the land
23 frontier reaches the sea.

24 In this connection, I think it may be useful to recall
25 the question regarding the 1799 agreement that was posed by

09:41:15 1 Professor Franck earlier in these proceedings. I refer you
2 here to documents at Tab 2 of the core documents.

3 Pursuant to that agreement and international law,
4 Suriname would be well-founded in the view that the point at
5 which the river bank--and the river bank is the international
6 frontier--the point at which the river bank ends at the
7 seacoast is well to the north and to the west of the river
8 bank's intersection with the 10-degree line measured from the
9 1936 Point.

10 With the Tribunal's indulgence I would like to use two
11 illustrations used by my colleagues yesterday. These
12 illustrations will show quite conservative indications of
13 possible terminal points of the international frontier that
14 were illustrated by the Dutch and the British Governments in
15 1959. One is illustrated by the famous Dutch Chart, 222,
16 provided by the Netherlands to the British Government in 1959
17 in the context of their negotiations on a continental shelf
18 boundary. The chart is set forth at Tab 3 in the books.

19 You will see that the Dutch illustrated the effect of
20 a closing line across the river. Taking a very conservative
21 position--they were, after all, Dutch--the Dutch at the time
22 limited the length of the closing line to 10 miles. Even that
23 conservative length reached the opposite side of the river
24 north and west of the 1936 Point.

25 Another conservative terminus is illustrated by the

09:43:08 1 official map, British map, of British Guiana published in 1959.
2 This map is at Tab 4 in the books. In its 1959 chart, the
3 Netherlands drew only a 10-mile line. The terminus of the land
4 frontier indicated in the 1959 British map, which would be
5 right there, is about 14 miles in length, approximately
6 14 miles in length, from the headland on the eastern side.
7 This is illustrated on the overlay on the British map shown at
8 Tab 5. That's about 14 miles.

9 In fact, the limit under this approach to the closing
10 line is 24 miles under both the 1958 Convention and the Law of
11 the Sea Convention; and, in fact, if we look at state practice,
12 Suriname could reasonably claim an even longer closing line
13 reaching the western shore at a point even further north and
14 west of the 1936 Point. I'm not very good at PowerPoint. It's
15 somewhere up beyond there.

16 Since the land frontier is the line separating
17 Suriname's river from Guyana's land, and since the question of
18 the precise location of the terminus of the land frontier is
19 not otherwise resolved, I would suggest that the most plausible
20 and, frankly it seems to me, the only plausible basis for
21 proceeding with the delimitation in this case would be rooted
22 in a finding that the Netherlands and the United Kingdom
23 established the territorial sea boundary on the 10-degree line
24 that intersects the 1936 Point. And in this connection, I
25 propose to elaborate on three interrelated questions.

09:45:13 1 First, why Suriname believes that the 10-degree line
2 is and should be the territorial sea boundary.

3 Second, why Suriname believes that the 10-degree
4 boundary does and should apply to the entire 12-mile
5 territorial sea.

6 And third, why Suriname believes that the 10-degree
7 territorial sea boundary does and should extend to the limit of
8 Guyana's territorial sea, and accordingly, that Guyana's
9 territorial sea may not extend east of the 10-degree line.

10 It's evident that from a legal point of view there is
11 and necessarily would be a certain symmetry between Guyana's
12 contentions that the terminus of the international frontier
13 between Suriname's river and Guyana's dry land is established
14 in law at the low-water mark of the 1936 Point, and Suriname's
15 contention that the 10-degree territorial sea boundary
16 identified by the 1936 Point is established in law. Neither
17 Guyana nor Suriname can assert that the 1939 draft Treaty or
18 any subsequent substantive draft Treaty on the matter is
19 binding on the parties. Both rely on the behavior of the
20 parties and the legal effect of that behavior.

21 For its part, Suriname relies on the consistent and
22 concerted behavior of the Netherlands and the United Kingdom in
23 their dealings with each other regarding the territorial sea
24 boundary. It's clear that beginning in the 1930s the colonial
25 powers together selected the 10-degree line, together applied

09:47:07 1 it in practice by notifying the seafaring community of the
2 territorial sea boundary and making it possible for mariners
3 and fishing boats to identify its location at sea, and over
4 many years treated the 10-degree line as the territorial sea
5 boundary in their dealings with each other.

6 The establishment of a territorial sea boundary at the
7 10-degree line is the legal consequence of that consistent and
8 concerted behavior. Once established, that territorial sea
9 boundary could not be altered by diplomatic proposals for new
10 treaties that were never adopted or by unilateral action.
11 Guyana, in our view, has not sustained and cannot sustain the
12 burden of proving that the territorial sea boundary, once
13 established, was lawfully changed.

14 My colleague, Dr. Oude Elferink, has reviewed the
15 history in some detail. Let's consider what that history tells
16 us about the 10-degree line. Several important points emerge.

17 The most important is the 10-degree line is not a
18 unilateral line. It was jointly identified as the territorial
19 sea boundary by the Mixed Commission established by the
20 Netherlands and the United Kingdom. The report of the Mixed
21 Commission states unequivocally that the Commission decided to
22 indicate the direction of the boundary line in the territorial
23 waters on a true bearing of 10 degrees east, and the purpose
24 was not trivial. The Commission reported that it was
25 essential--essential--that the continuation of the boundary in

09:49:05 1 the territorial waters should leave the navigation channel in
2 the same territory throughout its length. And the navigation
3 channel is illustrated here. On the left is the 1927 map--the
4 1927 chart--as it existed. All we have done here is
5 highlighted it to show exactly where the channel is--it's in
6 fact marked there, but it's not very bright--and to show that
7 the 10-degree line is, in fact, parallel to the channel and
8 parallel to the approach line that was on that map. It was on
9 the original map, which was also at a 10-degree angle, so that
10 we have exactly the same angles here.

11 The colonial powers thereafter treated the 10-degree
12 line as the territorial sea boundary. With the Tribunal's
13 indulgence, I would like to again read what Guyana states on
14 page 20, paragraph 3.18 of its Memorial. This is at Tab 7.
15 And I quote from Guyana's Memorial: "By the time the draft
16 Treaty was delivered to the Netherlands in 1939, both states
17 were treating Point 61 as the land boundary terminus and the
18 north 10 east line as the boundary between British Guiana and
19 Suriname in the territorial sea."

20 That paragraph of Guyana's Memorial proceeds to quote
21 directly from the Notice to Mariners issued in 1938. That
22 public notice stated, as quoted in Guyana's Memorial, and I
23 quote, "a pyramid-shaped wooden beacon 10 meters in height has
24 been placed on the left bank of the Corantijn." I omit some
25 language here, and quote: "The line drawn 010 degrees from

09:51:19 1 this beacon gives the limits between the Netherlands and
2 British territorial waters in the mouth of the Corantijn."
3 This was the public notice issued by "Notice to Mariners" that
4 is quoted in Guyana's Memorial.

5 Thus, the consistent and concerted implementation at
6 sea of the 10-degree boundary began in 1938 with the
7 construction of the 10-meter-high beacon that was located on
8 the 10-degree azimuth identified by markers "A" and "B," marker
9 "A" being the 1936 Point. The sole purpose of building the
10 beacon there on the territory of British Guiana and by the
11 British authorities in Georgetown, the sole purpose of building
12 it there was to enable fishermen and mariners to calculate the
13 position of the 10-degree territorial waters boundary. They
14 were informed of the beacon and the territorial waters boundary
15 by "Notice to Mariners." "Notices to Mariners" are the
16 recognized means for official communication with those who use
17 the sea. The public was thus informed of the establishment of
18 a territorial waters boundary and afforded the practical means
19 for determining its location.

20 In this connection, on December 9 my distinguished
21 colleague Professor Sands informed this Tribunal that Guyana
22 accepts that for some period of time the 10-degree line was
23 respected by the United Kingdom. The remarks are at Tab 9.
24 Professor Sands indicated that doubts began to emerge only in
25 the late 1950s. Some period of time, indeed. According to

09:53:26 1 Guyana's own account, for some period of time between two
2 decades and a quarter century, both parties respected the
3 10-degree line as the territorial sea boundary in their mutual
4 relations.

5 In fact, this common position continued into the
6 1960s. The 1961 British draft Treaty continued to use the
7 10-degree line for the territorial sea. The 10-degree
8 territorial sea boundary extending to 6 miles is referred to in
9 1966 by Admiral G.S. Ritchie, Hydrographer of the British Royal
10 Navy in his brief for the British Captain who was participating
11 in a joint survey of the area by the Netherlands and the United
12 Kingdom. And it would seem to me that instructions to one's
13 forces that are participating in a survey of a boundary area
14 are rather interesting evidence of what the state believes the
15 legal situation to be. This letter can be found at Tab 10.

16 This common position regarding the 10-degree boundary
17 in the territorial sea, therefore, survived the realization of
18 the parties in the 1950s that the approach of the 1939 draft
19 Treaty to other matters was unacceptable. In other words, that
20 there was a separation between the two. It's in this context
21 that we should consider the communication of 8 May, 1953, from
22 the Netherlands to the United Nations, and I beg the Tribunal's
23 indulgence, this is probably the fourth time that the matter
24 has been raised. The communication is to be found in the
25 extract from the 1953 Yearbook of the International Law

09:55:21 1 Commission that appears at Tab 11.

2 The communication from the Netherlands was in response
3 to a request from the International Law Commission regarding
4 the delimitation of the territorial sea. The Netherlands
5 letter specifically quoted the reference in the 1939 draft
6 Treaty to the territorial waters boundary as the 10-degree
7 line, and it cited and quoted only that reference.

8 There is no doubt that in 1953, quite apart from this
9 letter, not only the Netherlands, but the United Kingdom had
10 long been treating the 10-degree line as the boundary in the
11 territorial sea. There was no reason to think otherwise. The
12 territorial sea boundary was, in fact, settled by 1953. The
13 Netherlands said so. The United Nations published that
14 statement in a report likely to be closely scrutinized by legal
15 experts in many governments.

16 Mr. President, neither I nor, I presume, my
17 distinguished colleagues from Guyana are aware of any response
18 from the United Kingdom to this report. If this is so, if this
19 is so, Mr. President, then the real significance of the
20 publication of the communication from the Netherlands is that
21 the United Kingdom, one of the most active and interested
22 contributors to the work of the International Law Commission on
23 the Law of the Sea, the United Kingdom said nothing to
24 contradict the statement in the International Law Commission
25 report that the territorial sea boundary between British Guiana

09:57:18 1 and Suriname was settled at the 10-degree line. And despite
2 its intimate knowledge that the question of the maximum breadth
3 of the territorial sea was not settled and that an increasing
4 number of states, including the growing ranks of newly
5 independent states, were advocating a six-mile or 12-mile
6 limit, the United Kingdom also said nothing about the fact that
7 the text of the Netherlands communication, published and
8 circulated by the United Nations, referred to territorial
9 waters without any limitation as to its breadth.

10 While beginning in 1965, the United Kingdom and Guyana
11 made attempts to persuade the Netherlands and Suriname to agree
12 to another line, their efforts were unsuccessful. It is
13 against this background that we now turn, and accept Guyana's
14 invitation to turn, to Article 15 of the Law of the Sea
15 Convention regarding the delimitation of the territorial sea.

16 Article 15 of the Law of the Sea Convention, as Guyana
17 has pointed out, was substantially drawn from Article 12 of the
18 1958 Convention on the Territorial Sea and the Contiguous Zone
19 with little--and I have to emphasize little--controversy. The
20 main difference is that while the 1958 text states that the
21 reference to equidistance "shall not apply where there are
22 special circumstances," this text was changed to "does not
23 apply" in the 1976 revised single negotiating text, and
24 remained that way. Mr. President, it is simply not clear
25 whether misgivings about the 1958 text in Caracas, Ankara, or

09:59:30 1 elsewhere played a role in this very subtle drafting change.

2 Article 15 of the Law of the Sea Convention provides
3 for the application of equidistance only under certain
4 circumstances. In particular, under Article 15, equidistance
5 does not apply where there is agreement between the parties to
6 the contrary or where it is necessary by reason of historic
7 title or other special circumstances to delimit the territorial
8 seas of the two States in a way which is at variance therewith.

9 There are, in our view, accordingly, alternative legal
10 bases under Article 15 to support a conclusion that the
11 10-degree line constitutes the territorial sea boundary.

12 The first is that the consistent and concerted
13 behavior of the Netherlands and the United Kingdom in their
14 dealings with each other over many years established that
15 boundary, whether by virtue of tacit or de facto agreement or
16 mutual recognition or acquiescence or estoppel.

17 The second basis is that as recognized by the colonial
18 powers themselves in their negotiations in 1936, and their
19 consistent and concerted behavior in their dealings with each
20 other over many years, the sovereignty of the Netherlands and
21 now Suriname over the entire Corantijn River at its mouth
22 constitutes a special circumstance requiring a boundary that
23 precludes the extension of sovereignty from Guyana over the
24 northerly approaches to the Corantijn River east of the
25 10-degree line.

10:01:27 1 With respect to the first of these alternatives, it is
2 noteworthy that Guyana has repeatedly maintained in these
3 proceedings that there was agreement between the colonial
4 powers and their successors on the 1936 Point. If there was
5 agreement on the 1936 Point, then there was necessarily
6 agreement on the 10-degree boundary in the territorial sea.
7 The fundamental rule of interpretation articulated by Article
8 31 on the Vienna Convention on the Law of Treaties provides
9 that terms are to be interpreted in context and in light of the
10 object and purpose of the agreement. The context in which the
11 1936 Point was identified and marked includes agreement on the
12 concurrent identification and marking of a second point nearby
13 to establish the position of the 10-degree line running through
14 the two points--this is basic geometry--as well as the
15 construction of a beacon on that 10-degree line whose sole
16 function, sole function, is to be visible at sea. There can be
17 no doubt that establishing the location of the 10-degree
18 boundary in the territorial sea was the object and purpose of
19 identifying the 1936 Point itself.

20 Following the designation of the 10-degree line as the
21 territorial sea boundary in the late 1930s, the Netherlands and
22 Suriname consistently respected the 10-degree territorial sea
23 boundary in their relations with the United Kingdom and Guyana.
24 So did the United Kingdom in its relations with them for
25 decades thereafter.

10:03:28 1 In reliance on that consistent and concerted behavior,
2 neither the Netherlands nor Suriname asserted a claim to
3 sovereignty over the Corantijn River beyond the 10-degree line,
4 for example, to the point where they could have asserted
5 sovereignty illustrated on the British map itself. The
6 Netherlands did not make that claim. Suriname did not make
7 that claim. They stopped their claims at the 10-degree line in
8 reliance on the consistent and concerted behavior of the United
9 Kingdom.

10 That this reliance was detrimental is amply
11 demonstrated by Guyana's pleadings in this very case. Those
12 pleadings ignore the justified expectations of the Netherlands
13 and Suriname that the United Kingdom and Guyana would respect
14 the two inseparable juridical effects of the 10-degree line
15 identified by the 1936 Point, and those two inseparable
16 juridical effects are first that Guyana's sovereignty at sea
17 does not extend east of the line; and second, that Suriname's
18 sovereignty over the river, as well as the sea, does not extend
19 west of the line.

20 Guyana's attempts to argue changed circumstances with
21 respect to the 10-degree line are rooted neither in fact nor in
22 law. It is clear that the Corantijn River flows in a northerly
23 direction, that Suriname's sovereignty over the mouth of the
24 river extends to both banks of the river, and that the reason
25 for precluding the extension of the British territorial sea

10:05:31 1 east of the 10-degree line was to protect the interests of the
2 Netherlands in avoiding British control of the northerly
3 approaches to the river east of the 10-degree line. The
4 western channel was the object of discussion in the 1930s, and
5 it continues to exist, and as Suriname demonstrated, continues
6 to be used. The statement of Mr. Fitz Jim, which is at Tab 13,
7 expressly states, and I quote, "Seagoing vessels were mainly
8 using the eastern channel of the Corantijn, but other vessels,
9 including vessels from Suriname and Guyana, were often also
10 using the western channel. These other vessels included
11 fishing trawlers and small freighters with a draft of three to
12 four meters of water. Seagoing vessels were using the eastern
13 channel not so much because of its better natural state, its
14 breadth and depth, but because of its ease of navigation due to
15 its proximity to the Nickerie River."

16 Clearly, the distinction that Mr. Fitz Jim is drawing
17 in referring to seagoing vessels is a distinction between
18 larger and smaller vessels. Obviously, the vessels using the
19 western channel are going out to sea. That's where the channel
20 leads.

21 And, of course, it is the smaller vessels--including
22 the small fishing boats, which were indisputably using the
23 western channel and are indisputably still using the western
24 channel--it is the smaller vessels that would have the greatest
25 need to know the location of the boundary between Guyana's and

10:07:18 1 Suriname's territorial sea. Major maritime traffic out at sea
2 running across would have no particular need to know the
3 precise location of that boundary ordinarily.

4 The Commission report of 1936, which, again, is at
5 core documents Tab 3, states that the 10-degree boundary line
6 in territorial waters is parallel to the mid-channel line.
7 That is still true today. In your books at Tab 14 are two
8 modern maps, one Dutch and one British, showing the continued
9 existence of the western channel. For purposes of comparison,
10 each of these modern maps is adjacent to a copy of a 1927 Dutch
11 map that was used by the members of the Mixed Commission in the
12 1930s. For reasons of simplicity, the slide simply shows the
13 British map or chart on the right and the Dutch on the left.

14 Moreover, even if these facts were otherwise, as a
15 matter of law, changed circumstances may not be invoked with
16 respect to international boundaries. This rule is expressly
17 recognized by the Vienna Convention on the Law of Treaties and
18 was expressly stated to be applicable to maritime boundaries by
19 the International Court of Justice in the Aegean Sea case in
20 paragraph 85 of that case.

21 With respect to the second of the alternatives under
22 Article 15, namely special circumstances, I think it's useful
23 to recall what Commander Kennedy said.

24 First, Commander Kennedy of the British Hydrographic
25 Office expressly identified the presence of a navigable channel

10:09:29 1 as a special circumstance of the 1958 Conference on the Law of
2 the Sea.

3 Second, writing in 1959, and this is at Tab 15,
4 Commander Kennedy indicated with respect to the boundary
5 involved in this case that, and I quote, "There were strong
6 reasons in 1936 why the line through the territorial sea should
7 have run in a 010-degree direction," and he went on to indicate
8 that, "this line could be justified by special circumstances,"
9 under the 1958 Territorial Sea Convention.

10 In this regard, Commander Kennedy observed, and I
11 quote, "As the Dutch will in any case possess all the waters of
12 the river, it would seem reasonable that they should also own
13 the navigable channels in the approach. They are--there are
14 banks dividing the channels in the approach. At present, the
15 channel on the Suriname side is that more generally used, but
16 in time this may silt, and that on the British Guyana's side
17 deepen."

18 It's also important to bear in mind that Suriname's
19 future development of bauxite and other natural resources in
20 the western parts of the country's interior may entail
21 increased traffic on the Corantijn River and with it increased
22 need for Suriname to protect and to regulate the maritime
23 approaches to the river. As Commander Kennedy expressly
24 recognized, the seabed is shallow and shifting in this area,
25 and the position or utility of channels can easily change.

10:11:23 1 For Suriname, control over all of the northerly
2 approaches to the Corantijn River, including the approaches to
3 its western channel, is not an abstraction. That control is
4 integral to its hopes for development of the country in the
5 interests of its people.

6 Article 15 of the Law of the Sea Convention, which
7 addresses delimitation of the territorial sea, constitutes part
8 of the regime of the territorial sea set forth in Part II of
9 the Law of the Sea Convention. The meaning of Article 15,
10 including its reference to special circumstances, is to be
11 understood in the context of the regime in which it appears.
12 Article 2 of the Law of the Sea Convention provides that the
13 sovereignty of a coastal state extends beyond its land
14 territory to an adjacent belt of sea described as the
15 territorial sea. Accordingly, all activities in the
16 territorial sea are subject to control and regulation by the
17 coastal state, except as expressly provided otherwise.

18 While navigation is in principle subject to coastal
19 state control by virtue of its sovereignty over the territorial
20 sea, there is an exception according a right of innocent
21 passage to foreign ships. This exception, however, is limited.
22 Activities that are not innocent passage--for example, a
23 deployment of buoys and aids to navigation--activities that are
24 not innocent passage are unaffected by the exception and remain
25 subject to the sovereign control of the coastal state.

10:13:19 1 Innocent passage is strictly defined by the Convention, and the
2 Convention gives the coastal state the right to prevent passage
3 that is not innocent.

4 Even with respect to passage that is innocent, the
5 coastal state is accorded very extensive powers, notably the
6 right to prevent any breach of conditions of entry into its
7 ports and internal waters, including its rivers; the right to
8 adopt and enforce unilateral regulations regarding navigation
9 safety and pollution from ships; the right to suspend innocent
10 passage in specified areas.

11 Closely linked to the regime of the territorial sea is
12 the regime of the contiguous zone. The two regimes were linked
13 in one of the four 1958 Conventions whose very name is the
14 Convention of the Territorial Sea and the Contiguous Zone. The
15 two regimes are similarly linked in Part II of the Law of the
16 Sea Convention, which is entitled, "Territorial Sea and
17 Contiguous Zone."

18 Article 33 of the Law of the Sea Convention
19 substantially repeats the provisions on the contiguous zone
20 contained in the 1958 Convention. At Tab 16 there is an
21 illustration of the 1958 text and the 1982 text side by side.
22 That shows the following two notable changes.

23 First, the maximum seaward limit of the contiguous
24 zone is extended from 12 miles to 24 miles. There you notice
25 12 miles, and there 24.

10:15:12 1 And second, and particularly significant for the
2 issues in this case, the Law of the Sea Convention does not
3 repeat the provision of paragraph three of the 1958 Convention
4 providing for a median line boundary between contiguous zones
5 in the absence of agreement. This is missing, and it was
6 deliberately omitted.

7 Commander Kennedy, of the British Hydrographic Office,
8 expressly recognized the importance of the contiguous zone. I
9 refer here to his letter of January 15, 1959, to Mr. Scarlett
10 of the Colonial Office, which is at Tab 15. In that letter,
11 Commander Kennedy proposes adding a reference to the contiguous
12 zone after the reference to the territorial sea in the British
13 draft Treaty that was under consideration. Mr. Scarlett's
14 response of February 11, 1959 is contained at--

15 PROFESSOR SANDS: Which tab is that?

16 PROFESSOR OXMAN: Tab 15. I hope that's right. It's
17 what's written here. Mr. Scarlett's response, to which I'm now
18 adverting, is at Tab 17.

19 Mr. Scarlett concurs in the proposal to add a
20 reference to the contiguous zone, and adds the following
21 observation: "Especially, as we are not in the Treaty"--that
22 is, the draft Treaty that will be presented to the
23 Netherlands--"we are not in the Treaty following the median
24 line in all respects and it would be well to make it clear that
25 what is proposed is an agreement as contemplated in Article

10:16:59 1 24(3) of the Convention, rather than the pure median line."

2 Article 24, of course, said failing agreement between them to
3 the contrary, there would be a median line, and it is to that
4 Mr. Scarlett is referring.

5 In other words, even in the contiguous zone beyond the
6 three-mile territorial sea claimed at the time, according to
7 Mr. Scarlett, the boundary would not be a median line.

8 Control over navigation is unquestionably a major
9 consequence of the limitation of waters subject to the
10 sovereignty of a coastal state. This fact is particularly
11 pertinent to the diplomatic history of the present dispute.

12 Having agreed that Dutch sovereignty over the mouth of
13 the Corantijn River extends to both banks of the river, it was
14 logical for the parties to conclude that British sovereignty at
15 sea should not be permitted to intrude upon the approaches to
16 the Corantijn River and to agree that the Netherlands should
17 control those approaches. That is precisely what the
18 representatives of the Netherlands and the United Kingdom
19 concluded in 1936. They decided that British sovereignty
20 should terminate at the 10-degree line.

21 The rationality of this conclusion is well illustrated
22 by the legal consequences of the alternative under the Law of
23 the Sea Convention. Those legal consequences are of two types:
24 First, legal consequences that confer control on the United
25 Kingdom and now Guyana; second, those legal consequences that

10:18:46 1 deny the Netherlands and now Suriname the control they would
2 otherwise enjoy in their territorial sea and contiguous zone.

3 Taking them in order, if Guyana were permitted to
4 extend its territorial sea east of the 10-degree line, then in
5 the area so subsumed east of the 10-degree line Guyana would
6 have the right to unilaterally regulate passage to and from the
7 Corantijn River. Guyana would have the right to unilaterally
8 suspend innocent passage. Guyana would have the right to
9 unilaterally authorize fixed uses, including the construction
10 and operation of installations and the establishment of safety
11 zones around them that might interfere with navigation to and
12 from the river.

13 As to the second consequence, if Guyana were permitted
14 to extend its territorial sea east of the 10-degree line, then
15 in the areas subsumed Suriname would be denied the right to
16 regulate navigation in the approaches to the river. Suriname
17 would be denied the right to deploy buoys and other aids to
18 navigation. Suriname would be denied the right to control
19 threats to navigation. Suriname's enforcement vessels and
20 aircraft would be denied the right to conduct patrol and
21 enforcement activities. Suriname would be denied the right to
22 prevent breaches of the conditions of entry into the river; and
23 this is a very important enforcement tool necessary to ensure
24 effective control over the use of the river itself before the
25 offending vessel enters the river. And finally, Suriname would

10:20:39 1 be denied the right to establish a contiguous zone to prevent
2 and punish smuggling and other illegal activity in the river.

3 The last of these effects is not necessarily limited
4 to Guyana's territorial sea. If the single maritime boundary
5 beyond Guyana's territorial sea were to extend east of the
6 10-degree line and if that boundary were understood to apply to
7 the contiguous zone, then Suriname's rights to control
8 smuggling, illegal immigration, and similar criminal threats in
9 the northern approaches to the Corantijn River east of that
10 line would be cut off there as well.

11 We might bear in mind that given the shallow depths
12 and shifting sands in the in-shore areas (no offense intended),
13 cross-wise traffic is to be located well seaward of this area.
14 The practical question we are involved with here in terms of
15 navigation is traffic to and from the Corantijn River. In this
16 connection, we need to take account of the natural conditions
17 of the area that affect navigation. The 2004 edition of the
18 "South American Pilot" published by the United Kingdom
19 Hydrographic Office, which is at Tab 19, has this to say about
20 tidal streams, and I quote, "In the mouth of the Corantijn
21 River, the ingoing tidal stream sets southwest, whilst the
22 outgoing stream sets north. In the rainy season, the outgoing
23 stream attains rates of three to three-and-a-half knots, and
24 its influence is felt 10 to 12 miles offshore."

25 In other words, in the rainy season we have a

10:22:34 1 significant outgoing tidal stream that runs 10 or 12 miles
2 north. Our experts have prepared an illustration of this tidal
3 effect. That's the incoming in the southwest direction, and
4 then the outgoing tidal stream in the northerly direction. If
5 the purpose of the 10-degree line is to ensure unity of
6 regulation and protection of shipping in the northerly
7 approaches and exits, I might add, then it is readily apparent
8 that this control should extend at least to the 12-mile limit
9 of Guyana's territorial sea.

10 The rationale for the 10-degree line is independent of
11 any particular limit of the territorial sea. The object and
12 purpose of the 10-degree line was to limit the extension of the
13 territorial sea from Guyana's side so as to protect the
14 Netherlands and now Suriname's control over the northerly
15 approaches to the Corantijn River east of that line. That
16 object and purpose would be furthered if the 10-degree line
17 were applied to limit the entire 12-mile territorial sea of
18 Guyana.

19 Conversely, that object and purpose would be
20 frustrated if Guyana were permitted to claim a territorial sea
21 in any area east of the 10-degree line. This could happen in
22 two ways. First, if the 10-degree line were applied to the
23 territorial sea, but, say, only to the 3 miles claimed by the
24 colonial powers in the 1930s; the effect is illustrated by Tab
25 20 in your folder.

10:24:42 1 As you can see, if the 10-degree line stops at 3
2 miles, as Guyana intimated in these proceedings, then its
3 territorial sea would wrap around the northern limit of
4 Suriname's territorial sea. This effect would apply from the
5 10-degree line up to whatever boundary line is used at the end
6 of the 10-degree line, and, of course, that we don't know.
7 That is the line that the Tribunal would have to determine, but
8 the wrap around effect would extend up to whatever line other
9 than the 10-degree line were used, and Guyana, of course, has
10 made its own suggestions as to what that might be. In fact, it
11 would start down here.

12 A second way, a second way in which the object and
13 purpose could be frustrated would be if a 10-degree line were
14 applied only where the 12-mile territorial seas of the parties
15 overlap and the remainder of Guyana's territorial sea then
16 extended east of the line. This effect is illustrated in Tab
17 21 of your folders. As you can see, if this is the point where
18 Suriname's 12-mile territorial sea meets Guyana's and the
19 10-degree line is stopped there, then the Guyana territorial
20 sea would wrap around Suriname, the top of Suriname's
21 territorial sea, and again, we don't know how extensive that
22 effect would be because we don't know, if that point were
23 chosen, what the direction of the line would be thereafter.
24 That is the Tribunal's decision.

25 This problem--this problem--was expressly recognized

10:26:37 1 by Commander Kennedy in his work on what would become the 1961
2 British draft Treaty. In this connection, Guyana's explanation
3 of the reference to drawing the 10-degree line to 6 miles in
4 the 1961 British draft Treaty is, and I quote--I'm quoting from
5 Guyana's explanation of what Commander Kennedy did: "The point
6 located 6 miles seaward from Point 61 at an angle of north 10
7 east lay approximately 3 miles from the nearest point on that,"
8 meaning British Guiana's, "coastline and thus represented the
9 limit of British Guiana's territorial sea." That statement
10 appears in Guyana's Memorial at page 30, paragraph 3.38.

11 This statement acknowledges that the purpose of the
12 10-degree line was to limit the extent of Guyana's territorial
13 sea, and thus prevent it from extending east of the 10 degrees
14 and wrapping around Suriname's territorial sea--of course, at
15 that time addressing a territorial sea of 3 miles.

16 The map at Tab 22 of your folder illustrates the way
17 in which Commander Kennedy's solution to the wraparound problem
18 with respect to the three-mile territorial sea, as explained in
19 Guyana's Memorial, would solve the problem at the 12-mile limit
20 of the territorial sea. The solution is to ensure that
21 Guyana's territorial sea does not extend east of the 10-degree
22 line.

23 Even in the 1920s, it was already understood that the
24 northern approaches to the western channel of the Corantijn
25 River extended beyond 3 miles from the low-water line off

10:28:49 1 Guyana's coast. The map on the screen dating to 1927 and used
2 by the British and Dutch Commissioners in the 1930s, which you
3 have seen before, shows the line on a 10-degree inclination
4 extending into the Corantijn River as the area of approach at
5 sea. The line designating the approach route extends beyond 3
6 miles from the nearest point on the low-water line. And here
7 we have simply enhanced that map for visibility. This is the
8 approach line which is shown by the line on that map. Here is
9 the three-mile line off Guyana's coast. It is quite clear that
10 even in 1927, they understood that the approach line extended
11 well beyond--well beyond--the three-mile limit.

12 Needless to say, at that time the area beyond the 3
13 miles into which this approach line extends would have been
14 regarded as high seas by the two colonial powers. But the
15 important point is that even at that time, the northern
16 approach to the western channel was understood to extend
17 further out to sea than 3 miles on an angle of 10 degrees. The
18 10-degree territorial sea boundary that intersects the 1936
19 Point is parallel to and to the west of the approach line.
20 There they are. This graphically illustrates the purpose of
21 the 10-degree boundary in the territorial sea; namely, to
22 preclude the extension of British control over the northern
23 approach to the Corantijn River.

24 For a long time, a fair number of maritime countries,
25 including Great Britain and the Netherlands, in order to

10:30:50 1 advance their interests in maximum freedom to use the seas off
2 foreign coasts, supported the minimum plausible limit for the
3 territorial sea. That minimum plausible limit was one marine
4 league, which corresponds to 3 nautical miles.

5 In 1927 in his famous study of the law of territorial
6 water, Professor Phillip Jessup, who was fresh from his service
7 in the U.S. Department of State, identified the United Kingdom
8 and the United States as the mainstays on which the three-mile
9 maximum position rested. It's well-known, of course, to all of
10 us that each of these pillars had its cracks even then,
11 especially the second.

12 Let me take one example; let us turn to Tab 24. In
13 1848, Mexico and the United States agreed on a nine-mile
14 territorial sea boundary off the mouth of the Rio Grande.
15 Article 5 of the 1848 Treaty of Guadalupe Hidalgo provides that
16 the boundary line between the two republics shall commence in
17 the Gulf of Mexico 3 leagues from land opposite the mouth of
18 the Rio Grande. Three leagues is, of course, 9 nautical miles.

19 The Supreme Court of the United States later
20 dismissed--dismissed the U.S. Department of State's attempts to
21 explain away the evident inconsistency between this nine-mile
22 boundary and the traditional three-mile position. The U.S.
23 Supreme Court expressly rejected, and I quote, "after-the-fact
24 attempts to limit the effect of a provision which patently
25 purported to establish a three-league territorial boundary,"

10:32:44 1 and the Supreme Court concluded that the boundary, "was
2 intended to separate the territory of the two countries." The
3 citation is United States versus Louisiana, 363 U.S. Reports 1.
4 The specific discussion is at pages 61 to 64.

5 There's an additional interesting aspect of this
6 Treaty text. The Tribunal will note that according to this
7 text, the boundary continues between the United States and
8 Mexico up the middle of the Rio Grande River until New Mexico,
9 using the deepest channel if you can identify it.

10 It then goes on to say that if you can identify the
11 deepest channel at the mouth of the Rio Grande River, then the
12 end point of the nine-mile territorial sea boundary faces the
13 mouth of the deepest channel.

14 Now, if we use the same logic with respect to the
15 river involved in this case, we don't have a boundary running
16 up the middle of the river, we have a boundary running up the
17 western bank of the river. And the logic, the same logic as in
18 that Treaty, would place the territorial sea boundary opposite
19 the end of the boundary of the river where it meets the sea,
20 and that's exactly what was done with the 10-degree line in
21 1936.

22 Let's return to the question of the breadth of the
23 territorial sea. In 1934, when the representatives of the
24 Netherlands and the United Kingdom were working to establish
25 the territorial sea boundary between British Guiana and

10:34:32 1 Suriname, Professor Gilbert Gidel published the third volume of
2 his monumental treatise on the Law of the Sea, which is very
3 well-known, "Le Droit International Publique de la Mer." That
4 volume contains an exhaustive, and I think to students
5 exhausting, analysis of state practice and opinio juris
6 regarding the breadth of the territorial sea. Professor Gidel
7 expressed substantial doubt about any prohibition on
8 territorial sea claims beyond 3 miles. Gidel concluded, and
9 there it is, "La règle des trois milles n'est aujourd'hui
10 qu'une idole renversée." Today--that is in 1934--today, the
11 three-mile rule is but a fallen idol.

12 For a long time, multilateral diplomacy was to no
13 avail in establishing agreement on the maximum permissible
14 breadth of the territorial sea. Agreement on this question
15 eluded the 1930 Hague Codification Conference. This failure to
16 achieve agreement on the maximum breadth of the territorial sea
17 would have been fresh in the minds of the lawyers advising the
18 Netherlands and the United Kingdom in the 1930s.

19 In the 1950s, the International Law Commission and the
20 1958 Geneva Conference also failed to agree on a maximum
21 breadth. In 1960 another conference was called, and there a
22 proposal for a six-mile territorial sea, plus a six-mile
23 additional fishing zone, which was supported by the maritime
24 powers, failed by a hair's breadth to achieve the necessary
25 two-thirds majority.

10:36:23 1 Following the 1960 conference, Canada and the United
2 Kingdom explored with other governments the possibility of a
3 multilateral treaty among like-minded states that would adopt
4 the six-plus-six position, but the reactions they got were
5 mixed.

6 Adoption and widespread ratification of the Law of the
7 Sea Convention under which we are conducting this arbitration
8 marks the first time in the history of modern international law
9 that consensus has been achieved on the maximum permissible
10 breadth of the territorial sea. There are now over 150 parties
11 to the Law of the Sea Convention, including Guyana and
12 Suriname, as well as the Netherlands and the United Kingdom.
13 Article 3 of that Convention provides that every state may
14 establish the breadth of its territorial sea up to a limit not
15 exceeding 12 nautical miles, and both parties in this case have
16 done so.

17 It may be constructive to compare these developments
18 in multilateral diplomacy with the diplomatic history in this
19 given case. One point is particularly striking. Only
20 following the 1960 Law of the Sea Conference was a specific
21 mileage limit included in a negotiating proposal regarding the
22 10-degree line, and that's the six-mile provision in the 1961
23 British draft Treaty. The main object of the 1961 British
24 proposal was not the territorial sea boundary as such, but
25 rather to shift as much of the continental shelf boundary as

10:38:11 1 possible to an equidistance line in conformity with the
2 preferred positions articulated by both powers at the 1958 Law
3 of the Sea Conference and in their dealings with the European
4 neighbors.

5 The important thing about the 1961 British proposal in
6 context is not that it sought to limit the seaward extent of
7 the 10-degree line to 6 miles. The important thing about the
8 1961 proposal is that the United Kingdom, notwithstanding
9 efforts to establish a rule of equidistance in international
10 law, notwithstanding those efforts, felt obliged to acknowledge
11 the 10-degree boundary in the territorial sea.

12 If we step back to the period following the failure of
13 the 1930 Hague Codification Conference to limit the breadth of
14 the territorial sea, we find that communications between the
15 Netherlands and the United Kingdom that are contemporaneous
16 with the identification of the 10-degree line do not--I repeat,
17 do not--specify that the 10-degree territorial sea boundary
18 extends only to the three-mile limit claimed by the parties.
19 The Aide Memoire from the Netherlands in 1931 at Tab 26 refers
20 to the outer limit of territorial waters without specifying any
21 miles limit for the proposed boundary line, which later emerged
22 as the 10-degree line.

23 The 1935 preliminary British sketch refers to the
24 earlier 28-degree line as the boundary of the territorial
25 waters of Suriname and British Guiana without specifying any

10:40:00 1 mileage limit. The 1939 British draft Treaty refers to the
2 10-degree line as the boundary between the territorial waters
3 of Suriname and British Guiana, without specifying any mileage
4 limit. This practice continued following World War II as well
5 in the 1949 British draft Treaty, which used the same kind of
6 language without specifying a mileage limit.

7 The ordinary understanding of a text that specifies
8 the location and direction of the territorial sea boundary
9 without specifying any geographic limit is that it means what
10 it says. The boundary applies to the entire territorial sea up
11 to the limits claimed by the parties at any given time in
12 accordance with international law. There is nothing in the
13 history of the development of international law regarding the
14 breadth of the territorial sea to indicate otherwise. The
15 British and the Dutch were unquestionably aware already by 1936
16 and thereafter that there was no uniformity of practice,
17 preference, or scholarly opinion on this question.

18 This is made absolutely clear by the text of Article 7
19 of the United Kingdom's 1961 draft Treaty, which is core
20 document Tab 5. That text refers to the boundary between the
21 territorial sea--between the territorial seas and contiguous
22 zone so far as they respectively extend. By 1961, the United
23 Kingdom and the Netherlands had, of course, supported
24 international agreement on a six-mile territorial sea.

25 The Law of the Sea Convention contains absolutely no

10:41:56 1 distinction as to mileage within the territorial sea. There is
2 no distinction in the regime at three, at six, at nine, or at
3 12 miles. Guyana could have made a declaration explaining the
4 application of the Convention in the particular situations of
5 this boundary under Article 310 of the Law of the Sea
6 Convention. That was its function; to allow states to make
7 statements as to how different regimes would be harmonized.
8 Guyana made no such statement.

9 In the Aegean Sea Continental Shelf Case, decided in
10 1978, Greece relied on the 1928 General Act for the Specific
11 Settlement of Disputes as the basis for jurisdiction. Greece
12 acceded to the General Act in 1931. At that time, it had a
13 reservation regarding, and I quote, "disputes relating to the
14 territorial status of Greece."

15 Greece argued that the reference to the territorial
16 status of Greece could not apply to the continental shelf
17 because the very idea of the continental shelf was wholly
18 unknown in 1928 and 1931. The International Court of Justice
19 rejected that position. The International Court of Justice
20 said that the expression, and I quote, "must be interpreted in
21 accordance with the rules of international law as they exist
22 today, not as they existed in 1931."

23 And I should note that the Court was faced with a much
24 harder question. It was faced with an entire institution in
25 international law, the continental shelf, that didn't even

10:43:41 1 exist in 1931. Here we are talking about an institution that
2 did exist, territorial waters; it was not a new concept. And
3 we are talking about a much smaller area between three and
4 12 miles than the huge areas of the continental shelf.

5 Mr. President, I have a few more pages on the
6 territorial sea, and I leave it to you whether you would wish
7 to stop at this point or would like me to complete my
8 discussion of the territorial sea.

9 PRESIDENT NELSON: I think you had better complete.

10 PROFESSOR OXMAN: Thank you. I will try and speed
11 it up.

12 Needless to say, every expression needs to be
13 interpreted in the light of its object and purpose. In the
14 instant case I think I've demonstrated the object and purpose
15 of limiting their territorial waters to 10 degrees was to make
16 sure the British did not interfere with the approaches to the
17 Corantijn.

18 What can be said in support of the three-mile position
19 is that's what the parties thought in 1936, and there is no
20 dispute as to that. But if that's the only reason, then we are
21 faced--the Tribunal is clearly faced with the question of
22 intertemporal law. And the implications of that question of
23 intertemporal law are by no means limited to this Treaty. The
24 real question is the integration of other regimes with the
25 global regime for the oceans established by the 1982

10:45:16 1 Convention, a Convention that Guyana has quite rightly reminded
2 us has constitutional status.

3 For example, the same term, territorial waters, that
4 is involved in this case is used in Article 2 of one of the
5 most widely ratified regulatory treaties in the world, the 1944
6 Chicago Convention on International Civil Aviation. The legal
7 consequences of that term are quite extraordinary. The
8 territory of the state is defined in Article 2 to include its
9 territorial waters. That triggers the legal rule that every
10 state has complete and exclusive sovereignty above its
11 territory. It triggers the rule that no state aircraft, which
12 includes military aircraft, may fly over the territory of
13 another state without authorization. These are major questions
14 of international law that turn on the question of whether we
15 will understand the words "territorial waters" as used in 1944
16 to mean what the Law of the Sea Convention says they mean, and
17 that is 12 miles.

18 That is the general understanding, but a different
19 conclusion by this Tribunal on the question of intertemporal
20 law risks upsetting the smooth process of integration of other
21 Treaty regimes with that of the Law of the Sea Convention.
22 Where as with the 10-degree line in this case, the location and
23 direction of a territorial sea boundary is specified and its
24 seaward boundary is not specified, the question of whether the
25 territorial sea boundary established by the parties applies to

10:47:06 1 all or only part of the territorial sea depends on its object
2 and purpose. Here it is our contention that the object and
3 purpose was clearly to limit the extent of Guyana's territorial
4 sea.

5 It is our view that that is precisely the effect of
6 the 1989 arbitral award between Guinea Bissau and Senegal that
7 has been the object of discussion in these proceedings. And
8 I'm afraid in this regard that my distinguished colleague,
9 Professor Sands, misspoke when he said on December 9th that in
10 that case, Guinea Bissau-Senegal, we weren't concerned with the
11 delimitation of the territorial sea. The Tribunal there was,
12 indeed, concerned. There was a separate sentence in the 1960
13 agreement they were interpreting regarding the territorial sea.
14 There can be no doubt that Professor Sands's remark was
15 inadvertent. The dispositif in the award in the Guinea
16 Bissau-Senegal case expressly refers to the territorial sea.

17 Mr. President, that concludes my remarks on the
18 territorial sea. Suriname believes that the 10-degree is and
19 should be the boundary of the territorial sea; that the
20 10-degree boundary does and should extend to the 12-mile limit
21 of Guyana's territorial sea, and that this does and should
22 constitute the point of departure for delimitation of the
23 single maritime boundary beyond the territorial sea. Suriname
24 also believes that because of the close link between the
25 territorial sea and the contiguous zone, in order to protect

10:48:43 1 the object and purpose of the 10-degree line in the territorial
2 sea, the 10-degree boundary should be regarded as extending to
3 the 24-mile limit of the contiguous zone.

4 Mr. President, that concludes my prepared remarks on
5 the territorial sea, and I leave it to you as to how you would
6 like to proceed at this point.

7 PRESIDENT NELSON: Thank you very much, Professor
8 Oxman.

9 Any questions? I give the floor to Professor Shearer.

10 ARBITRATOR SHEARER: Just very briefly. Professor
11 Oxman, you said that the legal bases for your argument for the
12 view that the 10-degree line extends throughout the entire
13 extent of the territorial sea and maybe the modern territorial
14 sea and contiguous zone depends on consistency of practice,
15 acquiescence, and the special aspects of the sovereignty over
16 the approaches to the Corantijn River.

17 What ran through my mind was, is there any relevance
18 of the international law doctrine of uti possidetis here? Does
19 that play any role in your argument that states inherit what
20 the territorial dispositions were under previous regimes? Does
21 that help assist your argument or is it against your argument
22 or is it irrelevant?

23 PROFESSOR OXMAN: Professor Shearer, I don't want to
24 enter into the debate as to whether the doctrine uti possidetis
25 applies only with respect to former Colonies of the same state

10:50:21 1 or also applies with respect to former Colonies of different
2 states. This is a difficult question. Our friends from Africa
3 frequently regarded European colonialism as a unity, and
4 therefore took a broader view of uti possidetis. But you are
5 absolutely correct that the agreement reached by the
6 Netherlands and the United Kingdom that the territorial sea
7 boundary, the territorial sea boundary was the 10-degree line
8 intersecting the 1936 Point was, in our view, inherited by
9 Guyana and Suriname, and Suriname consistently respected it.

10 PRESIDENT NELSON: I should ask a question here. Are
11 you suggesting that the Netherlands and the U.K. envisaged an
12 evolutive approach to the meaning of territorial waters,
13 intending that that term should extend to whatever limit was
14 universally accepted as it is now?

15 PROFESSOR OXMAN: I believe that the Netherlands and
16 the United Kingdom had superb lawyers, some of whom are
17 identified, working on this problem. They knew the difference
18 between what is claimed and what international law prohibits.
19 They knew the difference between a text that specifies a limit
20 and doesn't. What they were working on was an agreement to
21 establish the boundary of the territorial sea. They knew that
22 that could change. They fought that change. I'm not denying
23 that. Neither government wanted that to happen, but they
24 already knew. Gidel told them in 1934 it was happening, and he
25 didn't need to tell them. They knew that the game was over

10:52:17 1 when The Hague Codification Conference failed. That was the
2 beginning of the end. And they knew that once decolonization
3 started, it would be all over. Developing countries wanted
4 nothing of the three-mile limit. And, therefore, I think they
5 agreed on territorial waters. They hoped that would remain 3
6 miles, but they never specified it would, and I think they
7 would have regarded it as covering a broader territorial sea if
8 one of them claimed it.

9 PRESIDENT NELSON: Thank you very much, Professor
10 Oxman.

11 If there are no more questions...

12 ARBITRATOR SMIT: Yes.

13 Professor Oxman, if they knew at the time that the
14 breadth of the territorial sea was in flux, why didn't they
15 address this situation and said, not the 10-degree limit should
16 extend to the limits of the territorial sea as it may be at the
17 appropriate time?

18 PROFESSOR OXMAN: Professor Smit, I think that's what
19 they meant. It is also exactly what the British text in 1961
20 says. It refers to the limits as they may be. They were, of
21 course, trying to protect their three-mile positions, so that
22 there is a difficult question of strategy here, but they did
23 not put a three-mile limit in. I think what you're suggesting
24 is exactly what they did say.

25 PRESIDENT NELSON: A question.

10:53:53 1 ARBITRATOR FRANCK: I'm interested in your
2 interpretation, Professor Oxman, of Article 7 from which
3 you--of the '61 draft, British draft, from which you extract
4 the words 10 degrees to a distance, but the words 10 degrees
5 and the words so far as they respectively extend, but in
6 reading further in that Article I see that it refers to the
7 10-degree line to a distance of 6 miles from the more seaward
8 of the concrete marks referred to, and thence on a bearing of
9 33 degrees for a distance of 35 miles, thence on a bearing of
10 38 degrees for a distance of 28 miles, then, and so on, 28
11 degrees to the point of intersection.

12 Doesn't that somewhat affect your analysis of Article
13 7? They seemed to have in mind that extension, not so far as
14 they respectively extend beyond the three-mile limit, but
15 perhaps to a distance of 6 miles, and then designated what the
16 line would be after that?

17 PROFESSOR OXMAN: Indeed. As I indicated, the
18 objective of the United Kingdom with this draft was to give
19 effect to its overall policy, which was a global policy of
20 attempting to entrench the equidistance line in international
21 law. It was not just to achieve one here. There was
22 consistent U.K. behavior on this question.

23 And the interesting thing is that they conceded a
24 10-degree line at all.

25 Now, with respect to the 6 miles, there are frankly

10:55:41 1 two interpretations, and I really do think Guyana's is the
2 better. One interpretation of 6 miles is that they actually
3 were breaching the three-mile limit of the territorial sea.
4 Guyana's interpretation, which I read to you, which I think in
5 light of what Commander Kennedy did is probably what they meant
6 to do, was that they used 6 miles so as to make sure they were
7 stopping Guyana's territorial sea from extending east of the
8 10-degree line because the end of the six-mile line from the
9 1936 Point would be, as Guyana points out, 3 miles from
10 Guyana's coast.

11 At the same time it seems to me from the documents
12 that the British were themselves confused because we have the
13 memorandum from the Colonial Office to Commander Kennedy,
14 saying that the contiguous zone line would not be a median
15 line. So, it's entirely unclear what they thought exactly was
16 happening. They were, of course, bargaining on a whole bunch
17 of issues at the time, but you are absolutely correct,
18 Professor Franck, and I do not disagree that the British after
19 the six-mile point were shifting the line in the direction of a
20 median line. That was their objective, yes, sir.

21 PRESIDENT NELSON: Thank you very much, Professor
22 Oxman.

23 We shall take a break now and return at 11:15. Thank
24 you very much.

25 (Brief recess.)

11:18:35 1 PRESIDENT NELSON: Professor Oxman.

2 PROFESSOR OXMAN: Thank you, Mr. President.

3 Mr. President, I would propose to proceed with some
4 observations on the law of maritime delimitation with
5 particular reference to the Exclusive Economic Zone and the
6 continental shelf. Mr. President, we have all seen this
7 [speaker holds up UNCLOS book] before. The United Nations
8 Convention on the Law of the Sea is both the source of
9 jurisdiction and the source of law in this case. Articles 15,
10 74, and 83 expressly regulate the delimitation of the maritime
11 boundary. The meaning of the reference to international law in
12 Articles 74 and 83 is to be determined by this Tribunal by
13 interpretation of those Articles in light of their context and
14 history.

15 That context and history includes a new regime for the
16 Exclusive Economic Zone that was introduced in Part V of the
17 Law of the Sea Convention. The regime embraces both the waters
18 and seabed and subsoil from the outer limit of the territorial
19 sea to a maximum limit of 200 miles from the coastal baselines.
20 That regime was unknown to the 1958 Conventions. It
21 dramatically changed the Law of the Sea.

22 On the other hand, much of the 1958 Convention on the
23 continental shelf was retained in Part VI of the Law of the Sea
24 Convention and elaborated on, including the addition of precise
25 outer limits, which we know are the continental margin

11:21:13 1 throughout the natural prolongation of the land territory of
2 the coastal state, but if the continental margin doesn't go to
3 200 miles, then the continental shelf goes to 200 miles anyway.

4 And thus, while the continental shelf may extend
5 beyond 200 miles--and may, indeed, with respect to both states
6 here, which is not a matter before the Tribunal--both the
7 continental shelf and Exclusive Economic Zone regimes do apply
8 up to 200 miles. For that reason the text of the Law of the
9 Sea Convention closely coordinates the two regimes in Part V
10 and VI, and the International Court of Justice noted this in
11 the Libya-Malta case. It said that the 1982 Convention
12 demonstrates that the two institutions, continental shelf and
13 Exclusive Economic Zone, are linked in modern law.

14 In 1958, of course, there was no Exclusive Economic
15 Zone, so there was no Exclusive Economic Zone to delimit. With
16 respect to the continental shelf, there was, of course, the
17 famous Article 6 of the Continental Shelf Convention, which
18 contained the so-called equidistance/special circumstances
19 rule. According to that rule, and I quote from part of it, "In
20 the absence of agreement and unless another boundary is
21 justified by special circumstances, the boundary shall be
22 determined by application of the principle of equidistance."
23 That was Article 6 of the '58 Convention.

24 The United Kingdom as well as the Netherlands in their
25 relations with their European neighbors, pressed for an

11:22:47 1 interpretation of Article 6 that afforded substantive primacy
2 to equidistance. Both ultimately failed. That position was
3 subject to scrutiny by International Tribunals in 1969 in the
4 North Sea Continental Shelf Cases, and 1977 in the Anglo-French
5 arbitration. The rigidity of that position caused the
6 International Court of Justice to decide that Article 6 was not
7 declaratory of customary international law.

8 The Anglo-French Arbitral Tribunal didn't have that
9 luxury because both states were party to the Continental Shelf
10 Convention. What that Tribunal did is to decline to accord
11 priority to equidistance under Article 6 itself; the line drawn
12 by the Arbitral Tribunal in the Anglo-French arbitration in the
13 areas seriously at issue was not an equidistance line.

14 Unlike the situation with respect to the territorial
15 sea, which we just talked about, Article 6 of the 1958
16 Convention dealing with the delimitation of the continental
17 shelf was not retained in the Law of the Sea Convention. New
18 provisions are utilized in the Law of the Sea Convention for
19 the Exclusive Economic Zone in Article 74, and for the
20 continental shelf in Article 83.

21 The full implications of Articles 74 and 83 of the Law
22 of the Sea Convention have yet to be explored in the
23 jurisprudence. The legal setting in most earlier delimitation
24 cases was different from what it is here. Many tribunals have
25 mentioned Articles 74 and 83. Most of them were adjudicating

11:24:47 1 under customary international law, not the Convention. From
2 that perspective, they generally noted the reference to
3 international law in Articles 74 and 83 and looked no further,
4 and there is nothing wrong with that.

5 This Tribunal, however, is adjudicating under the Law
6 of the Sea Convention. And the reality is that there is more
7 to Articles 74 and 83, their context and their history, than a
8 cross-reference to international law.

9 Perhaps the most important illustration of the
10 relationship between the Convention text and customary law
11 relates to the question of whether substantive priority is to
12 be accorded to equidistance. In reading and listening to the
13 arguments of learned counsel for Guyana, I sometimes had the
14 impression that the view of the law they set forth really means
15 that there is nothing left for a tribunal to do than draw an
16 equidistance line and fiddle at the margins. The International
17 Court of Justice, of course, decisively rejected that view in
18 the North Sea cases, and for that reason held that Article 6
19 was not declaratory of customary law.

20 Since the text of Article 6 of the '58 Convention
21 specifies no priority for equidistance, in fact the
22 International Court could have, in the North Sea cases,
23 interpreted the equidistance/special circumstances rule in the
24 Convention in a manner consistent with its view of
25 international law. It could have said that coastal state

11:26:26 1 jurisdiction is rooted in frontal seaward projection from the
2 coast. It could have said there is no substantive priority for
3 equidistance, and it could have said that equidistance is
4 especially problematic with respect to lateral boundaries
5 between adjacent states.

6 And, in fact, that's exactly what the 1977 Arbitral
7 Tribunal in the Anglo-French continental shelf delimitation
8 case did. They made an effort at synthesis by denying
9 substantive priority to equidistance and giving broad scope to
10 the role of special circumstances, and they sought to interpret
11 the equidistance/special circumstances rule within the more
12 flexible framework of the general norm of equitable principles
13 articulated in the North Sea cases.

14 And it's interesting to see what they said. This is
15 about the equidistance/special circumstances rule. They said,
16 "even under Article 6 the question whether the use of the
17 equidistance principle or some other method is appropriate for
18 achieving an equitable delimitation is very much a matter of
19 appreciation in light of the geographical and other
20 circumstances. In other words, even under Article 6"--this is
21 the Tribunal speaking--"it is the geographical and other
22 circumstances of any given case which indicate and justify the
23 use of the equidistance method as a means of achieving an
24 equitable solution rather than the inherent quality of the
25 method as a legal norm of delimitation."

11:28:06 1 Now, this opinion was well-known to the negotiators at
2 the Law of the Sea Conference, but interestingly, it was
3 not--the opinion was not cited with approval until 1993 by the
4 International Court of Justice in the Jan Mayen case.

5 In fact, what happened at the Law of the Sea
6 Conference is that there was a great divide between those who
7 wanted priority for equidistance, and they embraced Article 6
8 of the Continental Shelf Convention, and those who opposed any
9 reference to equidistance. They preferred more general
10 language, frequently the language of equitable
11 principles/relevant circumstances.

12 As we all know, the Law of the Sea Conference divided
13 into two camps precisely along those lines. Around the world
14 states paired off against their neighbors. It was not a pretty
15 spectacle. The issue was whether delimitation provisions
16 regarding the continental shelf and the Exclusive Economic Zone
17 would refer to equidistance.

18 Now, interestingly, in addition to attempting
19 negotiation of a definitive delimitation regime, delegations
20 also focussed on an interim regime pending definitive
21 delimitation. Naturally enough, the proponents of equidistance
22 proffered their position as an interim role. In other words,
23 the interim role is equidistance until you agree on something
24 else. My distinguished colleague, Professor Akhavan, seemed to
25 imply much the same thing on December 11 in his comments

11:29:41 1 regarding the interim regime. If so, he regrettably overlooked
2 the fact that the proponents of equidistance were unsuccessful.

3 Article 74 on delimitation of the EEZ and 83 on
4 delimitation of the continental shelf shared three
5 characteristics from the time of the very first single
6 negotiating text in 1975. First, the two texts were
7 substantively identical. Second, the texts did not repeat the
8 equidistance/special circumstances rule of the Article 6 of the
9 1958 Convention on the Continental Shelf. Third, the texts
10 contained separate provisions on definitive delimitation in
11 paragraph one and on the interim period pending definitive
12 delimitation in paragraph three.

13 At Tab 29 and on your screens, Mr. President, there is
14 a schematic account of the evolution of paragraphs one and
15 three of Article 74 of the Law of the Sea Convention. Article
16 83 evolved in exactly the same way.

17 Let us start with definitive delimitation, which is
18 addressed in paragraph one. The first text in 1975 did
19 something very interesting. It represented an effort to
20 combine references to equitable principles and equidistance in
21 a single text, and the text referred to "agreement in
22 accordance with equitable principles, employing, where
23 appropriate, the median or equidistance line, and taking
24 account of all relevant circumstances." This effort at
25 synthesis in some sense anticipated the Anglo-French Arbitral

11:31:35 1 Tribunal decision two years later.

2 The 1975 text triggered efforts by both camps, as we
3 would expect, to shift it in their direction. Partisans of
4 equidistance were annoyed at the reference to
5 equidistance--were annoyed that the reference to equidistance
6 was subordinated to equitable principles. The other camp
7 didn't like any reference to equidistance at all. Agreement
8 couldn't be reached. The texts stayed the way it was for
9 years.

10 In 1980, as a result of intensive negotiating efforts,
11 a change was introduced in the second revision of the informal
12 composite negotiating text. The text was divided into two
13 sentences, the first specifying that delimitation "shall be
14 effected by agreement in conformity with international law."

15 The next sentence repeated the prior text except that
16 they changed "all relevant circumstances" to "all circumstances
17 prevailing in the area concerned." I devoutly hope that no
18 member of the Tribunal asks me what the difference is because
19 frankly, it beats me.

20 This, too, did not work. If anything, the clash
21 between the two camps became more severe as it became clear
22 that the conference was entering its final stages.

23 For its part, the leadership of the Law of the Sea
24 Conference was determined to find a text that would not be an
25 obstacle to achieving consensus on the Law of the Sea

11:33:06 1 Convention as a whole, and it recognized that consensus would
2 not be possible if reference to equidistance was retained.
3 With this in mind, the text of what is now paragraph one of
4 Articles 74 and 83 was substituted in the Draft Convention in
5 1981. The reference to international law was retained,
6 interestingly elaborated upon by a cross-reference to Article
7 38 of the Statute of the International Court of Justice. The
8 reference to equidistance was removed. The references to
9 equitable principles and circumstances prevailing in the area
10 were replaced by a reference to an equitable solution.

11 The negotiation of an interim regime, pending
12 agreement on definitive delimitation, followed a similar
13 pattern. The question of a default or residual rule was posed
14 at the outset of the negotiation of an interim regime. The
15 first text of paragraph three of the informal single
16 negotiating text in 1975 stated quite simply, "Pending
17 agreement, no state is entitled to extend its Exclusive
18 Economic Zone beyond the median line or the equidistance line."

19 This evoked a storm of protest. It was removed the
20 very next year.

21 The new text of paragraph three introduced by the
22 revised single negotiating text in 1976 abandoned any reference
23 to median or equidistance lines. Instead, the focus shifted to
24 procedure. The new text required the states concerned to make
25 provisional arrangements taking into account the provisions of

11:34:52 1 paragraph one. To the extent that any normative standards at
2 all were expected to influence the interim regime, they were
3 the same as those set forth in paragraph one with respect to
4 agreement on definitive delimitation.

5 There matters remained until the second revision of
6 the informal composite negotiating text in 1980, when paragraph
7 one, we will recall, was changed to introduce the reference to
8 international law. At the same time, a new interim regime was
9 introduced in paragraph three. While paragraph one was still
10 to undergo a further change the next year, the text of
11 paragraph three remained substantively the same thereafter and
12 is to be found in the Convention.

13 This new interim regime in paragraph three is far more
14 elaborate. Like its immediate predecessor, it prescribes no
15 default or residual delimitation rule. Unlike its predecessor,
16 this interim regime is explicitly dissociated from any
17 substantive links to, or implications for, definitive
18 delimitation. Those implications are expressly precluded. The
19 interim regime focuses entirely on rules that can be expected
20 to promote self-restraint and to contain disputes.

21 The ultimate decision on the Law of the Sea Conference
22 not to refer to equidistance anywhere in Articles 74 and 83 was
23 accordingly quite deliberate. The references were removed from
24 both paragraph one and paragraph three. Consensus required a
25 different approach.

11:36:46 1 The result is that Articles 74 and 83 don't mention
2 equidistance, and they don't mention any other method of
3 delimitation. The Article requires agreement on the basis of
4 international law in order to achieve an equitable solution.
5 The requirement of an equitable solution in Articles 74 and 83
6 is substantive. It expressly qualifies the reference to
7 international law. It cannot be subordinated to equidistance
8 or to any other method of delimitation.

9 The requirement of an equitable solution as well as
10 the reference to international law must be understood in the
11 light of the context and history of Articles 74 and 83. This
12 suggests very considerable caution in evaluating arguments,
13 such as those advanced by my distinguished colleagues from
14 Guyana, that the references to international law, and even to
15 an equitable result, accord substantive priority to
16 equidistance.

17 It is difficult to agree with my friends from Guyana
18 that a treaty means what its drafters refused to say. It is
19 sometimes argued that, with the advent of the 200-mile zone,
20 proximity has become the basis of title and, accordingly, that
21 a preference for equidistance necessarily follows from this.
22 The International Court of Justice has never accepted the
23 argument. In paragraph 43 of the Libya-Malta case, the Court
24 explains why it never accepted the argument.

25 The argument was not accepted in the Convention

11:38:38 1 itself. There is no equidistance rule with respect to the
2 economic zone and the continental shelf. And in addition to
3 that, the last paragraph of Article 76 on the definition of the
4 continental shelf expressly negates any attempt to prejudice
5 the issue of delimitation between opposite or adjacent states.
6 It's a flat statement that the definition of the basis of title
7 does not prejudice the issue.

8 We might also look at the origins of the Exclusive
9 Economic Zone concept, the new concept. In the North Sea
10 cases, as we all know, the International Court of Justice in
11 attempting to decide whether an equidistance rule was inherent
12 in the concept of the continental shelf went back to the origin
13 of the concept in the 1945 Truman proclamation, and there it
14 found a reference to equitable principles, but no reference to
15 equidistance.

16 What if we were to perform a similar inquiry with
17 respect to the origin of the 200-mile zone? The origin of that
18 zone can be traced to the 200-mile claims of South American
19 states.

20 On June 23rd, 1947, less than two years after the
21 Truman proclamation, Chile proclaimed protection and control
22 over all of the sea contained within the perimeter formed by
23 the coast, the Chilean continental coast, which is very long,
24 and the mathematical parallel projected into the sea at a
25 distance of 200 nautical miles from the coasts of Chilean

11:40:23 1 territory. A similar claim was made all directions from
2 Chilean islands. The text of the Chilean law may be found in
3 Tab 30 in translation. Thus, in the very first claim, we
4 already find the idea of frontal projection of the continental
5 coast into the sea with the idea of radial projections
6 addressed only in connection with islands.

7 On August 1st, 1947, Peru made a virtually identical
8 200-mile claim. Peru's law specified that the direction of the
9 seaward projection of the coasts to 200 miles would be along
10 geographic parallels of latitude. That text may be found at
11 Tab 31.

12 The Santiago Declaration of August 18, 1952, confirmed
13 and coordinated the claims of Chile, Peru, and Ecuador to a
14 maritime zone, in Spanish, zona marítima, of at least 200 miles
15 embracing the waters and seabed and subsoil. The text of that
16 declaration may be found at Tab 32. The declaration specifies
17 that the maritime zone of an island located less than 200 miles
18 from the maritime zone of another party may not extend beyond
19 the parallel of latitude of the point when the land boundary
20 between the respective parties reaches the sea.

21 A supplemental fisheries agreement of December 4,
22 1954, between Chile, Peru, and Ecuador refers to the parallel
23 of latitude extending from the terminus of the land frontier as
24 the maritime boundary. That text is at Tab 33, in translation.

25 These seminal texts have three significant

11:42:21 1 characteristics pertinent to delimitation. First, there is not
2 even a hint of equidistance in these harbingers of the 200-mile
3 Exclusive Economic Zone.

4 Second, the texts conceive of the 200-mile zone as a
5 frontal westward projection of the entire Pacific coast of
6 South America. Thus, at the dawn of the entry of the 200-mile
7 zone into international law, these instruments conceptually
8 adumbrate, albeit on a continental level, precisely what is now
9 understood by the analysis of lateral boundaries by the
10 International Court of Justice in the North Sea cases, as
11 developed in the Tunisia-Libya and Gulf of Maine cases; namely,
12 that zones of adjacent continental states basically constitute
13 a frontal projection of the coast into the sea.

14 Third, when faced with a conflict between frontal
15 projection from the continental coast and radial projection
16 from an island, the Santiago Declaration expressly gave
17 priority to the frontal projection.

18 There is accordingly no basis in the history of the
19 introduction of the 200-mile zone in international law for the
20 criticism leveled at the idea of frontal projection by Guyana
21 and the geographic expert. Quite to the contrary, that history
22 confirms the appurtenance of frontal projections from
23 continental coasts as between adjacent states, addresses radial
24 projections only in connection with islands, and accords
25 priority to frontal projections from continental coasts over

11:44:07 1 radial projections from islands. Precisely the same logic,
2 applied, certainly, in different ways, informs the decisions of
3 the International Court of Justice in the Tunisia-Libya case
4 and the Libya-Malta case and in the Gulf of Maine case. It
5 also informs the decisions of Arbitral Tribunals in the
6 Anglo-French case, and in the Canada-France case.

7 The South American states that claimed 200-mile zones
8 prior to the Third U.N. Conference on the Law of the Sea played
9 a major and a successful role in the adoption of the 200-mile
10 Exclusive Economic Zone, and the alternative 200-mile limit for
11 the continental shelf. It is, therefore, of particular
12 interest that equidistance lines remain the exception, not the
13 rule, with respect to lateral maritime boundaries of South
14 American states that claimed 200-mile zones prior to the Third
15 U.N. Conference on the Law of the Sea.

16 This is clearly evident in the series of South
17 American maritime boundary reports prepared by Judge Eduardo
18 Jiménez de Aréchaga for what has now become the standard
19 reference on the subject, the volumes on International Maritime
20 Boundaries originally edited by Professors Jonathan Charney and
21 Lewis Alexander under the auspices of the American Society of
22 International Law. A compilation of extracts from these
23 reports regarding lateral boundaries between South American
24 states can be found at Tab 34.

25 Let me go through what Judge Aréchaga said on each of

11:45:46 1 those. Let's just start at the Southwest. Chile-Peru. Judge
2 Aréchaga says in his report: "The method used to delimit the
3 boundary line was to fix that line along the parallel of
4 latitude drawn from the point where the land frontier between
5 the two countries reaches the sea. The line is not based on
6 equidistance."

7 Mr. President, for the record, I note that Peru has
8 since transmitted a statement to the Secretary-General of the
9 United Nations on January 9, 2009, that to date, Peru and Chile
10 have not concluded a specific maritime delimitation treaty.
11 2001, excuse me. I'm sorry, I'm trying to read too fast. The
12 date in my text--I hope it's right--is January 9, 2001. But I
13 did feel that the record should show that Peru has made that
14 communication. That was, of course, subsequent to Judge
15 Aréchaga's report.

16 Ecuador-Peru. Judge Aréchaga again: Boundary lines
17 along the parallel of latitude. "The boundary is not based on
18 the equidistance method."

19 Colombia-Ecuador. "The maritime boundary extends a
20 land frontier along the parallel latitude." "The boundary is
21 not based on the equidistance method."

22 Let's turn to the Atlantic. Let's start in the south.
23 Argentina-Chile: This, of course, has a very important
24 history, role in the history of international law and
25 arbitration. What we see here, and I won't trouble you,

11:47:29 1 because it's evident that we do not have an equidistance line.
2 Once we get beyond these opposite areas very close to the
3 coast, where there were channels as well, what we have is a
4 series of arbitrary lines described by Judge Aréchaga. We go
5 out at an angle and another angle, then we go due south, then
6 we go due west, then we follow the meridian from Cape Horn due
7 south. There can be no doubt that that had all sorts of
8 implications regarding the juridical positions of the parties,
9 including those with respect to Antarctica. But these are
10 completely arbitrary lines. They bear no resemblance to
11 equidistance.

12 I should note that this Treaty also contains elaborate
13 provisions regarding navigation and about not extending beyond
14 certain lines with respect to the territorial sea. One could
15 spend an entire day on this matter.

16 Argentina and Uruguay. Judge Aréchaga: "The maritime
17 boundary is defined as an equidistance line determined by
18 adjacent coasts." But then he goes on: "The configuration of
19 Argentina's coast causes the true equidistance boundary to be
20 diverted toward Uruguay." And we see what he meant, and that
21 is that the true equidistance boundary, the dotted line, would
22 be closer to the Uruguayan coast. The actual agreed boundary
23 moves off the equidistance line in a direction closer to the
24 Argentine coast.

25 I should note that this is also an interesting

11:49:04 1 illustration. Argentina and Uruguay regarded this as the mouth
2 of the river, and, of course, we see that for a very, very long
3 distance it is the mouth of the river, the sovereignty over the
4 river, that determines maritime jurisdiction at sea.

5 Brazil-Uruguay. Judge Aréchaga: "The method used was
6 to establish a rhumb line nearly perpendicular to the general
7 direction of the coast."

8 Now, this is also not terribly far from an
9 equidistance line, and Judge Aréchaga explains why. He says,
10 "The establishment of the maritime boundary was facilitated by
11 the geographical fact that the delimitation involved states
12 with adjacent coasts which run in a fairly straight
13 northeast-southwest direction in the vicinity of the land
14 frontier. As already indicated, a prerequisite for the
15 maritime delimitation was the agreed location of the point
16 where the land boundary reaches the ocean"--which they also had
17 to establish in the Treaty.

18 This is a very important point. Where you have a
19 highly regular single direction of the coast, the perpendicular
20 and the equidistance line are going to be very similar. Here,
21 this is nearly a perpendicular.

22 Brazil-French Guiana. Judge Aréchaga: "The boundary
23 is perpendicular to the general direction of the coasts of
24 Brazil and French Guiana. It coincides roughly with the line
25 of equidistance because of the straight-baseline and the

11:50:46 1 absence of promontories or other special circumstances on the
2 coasts of either party that would markedly effect an
3 equidistant line." Again we have a perpendicular, and again
4 the perpendicular will not be all that far from an equidistance
5 line in those geographic circumstances.

6 Turning from these boundaries, we could quickly
7 consult two important seminal documents regarding the evolution
8 of the Exclusive Economic Zone. One is that on June 9, 1972,
9 in Santo Domingo. The Ministers of countries in the Caribbean
10 region adopted a declaration setting forth a proposal for a
11 200-mile zone that they styled a patrimonial sea, the
12 declaration contained no reference to equidistance. It
13 specified only that delimitation was to be carried out in the
14 accordance with the peaceful procedures stipulated in the
15 United Nations Charter. That declaration is at Tab 35.

16 The same approach is to be found in another of the
17 seminal documents, and that is the report of the Regional
18 Seminar of African States held in Yaounde later in 1972 from
19 June 20th to 30th. That report proposed an economic zone
20 beyond the territorial sea whose limit is measured by distance
21 from the coast. The report contained no reference to
22 equidistance and specified only that the limits between two or
23 more states shall be fixed in conformity with the U.N. and OAU
24 Charters. That report can be found at Tab 36.

25 To sum up at this point, the argument that fixing a

11:52:28 1 maximum mileage limit for a zone implies the use of
2 equidistance in delimitation is supported neither by logic, nor
3 by text, nor by history.

4 Now, Articles 74 and 83 do, of course, refer to
5 international law. While bearing in mind that that Tribunal is
6 not bound by any rule of stare decisis, and that the unusual
7 express reference to Article 38 of the ICJ Statute implies that
8 judicial decisions are not the only evidence of international
9 law to be consulted, review of the decisions of the
10 International Court of Justice and Arbitral Tribunals is, of
11 course, instructive in informing the content of the reference
12 to international law in Articles 74 and 83. Chapter four of
13 Suriname's Memorial does this at pages 38 to 62. I would like
14 to thank my colleagues on the Guyana team for complimenting the
15 scholarly quality of that, on behalf of those who wrote it.

16 Chapter 3 of Suriname's Rejoinder continues that
17 review at pages 50 to 68, and sets forth Suriname's response to
18 Guyana's legal arguments in its Reply. I can't in the time
19 available rehearse that review.

20 It is important, however, to bear in mind that what is
21 at issue here, what Guyana has asked the Tribunal to do, and we
22 agree, is to draw a single maritime boundary delimiting
23 different zones of jurisdiction, including both the Exclusive
24 Economic Zone and the continental shelf. The first Tribunal
25 that was asked to do that was the chamber of the International

11:54:24 1 Court of Justice in the Gulf of Maine case. That was the first
2 time that adjudication involved a single maritime
3 boundary--when the United States and Canada asked for a single
4 maritime boundary embracing their continental shelves and
5 fishery zones which, of course, were part of the Exclusive
6 Economic Zone.

7 And the chamber in that case, therefore, decided that
8 it was necessary, and I quote, "to rule out the application of
9 any criterion found to be typically and exclusively bound up
10 with the particular characteristics of one alone of the two
11 natural realities that have to be delimited in conjunction."
12 The chamber went on to observe, and I quote, "Preference will
13 henceforth inevitably be given to criteria that, because of
14 their more neutral character, are best suited for use in a
15 multipurpose delimitation." And the Tribunal then concluded
16 that for that reason it is towards an application of criteria
17 more especially derived from geography that the chamber feels
18 bound to turn, and the chamber pointed out that what is here
19 understood by geography is, of course, mainly geography of the
20 coasts.

21 This emphasis on coastal geography has characterized
22 all subsequent single maritime boundary cases before the
23 International Court of Justice, as well as Arbitral Tribunals.
24 Indeed, the Gulf of Maine decision has been cited 44 times in
25 seven maritime delimitation cases. I assume that Members of

11:56:09 1 the Tribunal and my distinguished colleagues from Guyana would
2 simply prefer the list which is contained at Tab 37.

3 It is now common for a tribunal to draw a provisional
4 equidistance line and then decide whether that line or some
5 other would best reflect the geography of the coast. This
6 analytical procedure has three main virtues. It makes explicit
7 what many lawyers and judges do anyway; it disciplines the
8 analytical process; and it focuses attention on coastal
9 geography as the central determinant in a maritime
10 delimitation.

11 This analytical process does not, however, mean that
12 equidistance enjoys substantive priority over any other method
13 of delimitation. Quite to the contrary. It is well
14 established in the jurisprudence that equidistance enjoys no
15 substantive priority. The Arbitral Tribunal in the
16 Barbados-Trinidad and Tobago case expressly stated that, and I
17 quote, "No method of delimitation can be considered of and by
18 itself compulsory, and no Court or Tribunal has so held." The
19 Barbados-Trinidad and Tobago Tribunal described the provisional
20 equidistance line as a hypothesis, an hypothesis that, and I
21 quote, "will in many circumstances"--many circumstances--"not
22 ensure an equitable result in the light of peculiarities of
23 each specific case."

24 I must confess that I am at a loss to understand how
25 my distinguished colleague, Professor Schrijver, could deduce

11:58:02 1 from this that equity means equidistance. The basic rule of
2 delimitation, as the International Court of Justice has
3 repeatedly made clear, most recently in the Cameroon and
4 Nigeria case, remains what is commonly called the equitable
5 principles/relevant circumstances rule that was first
6 articulated in the North Sea cases. Since the North Sea cases,
7 both the International Court of Justice and the Arbitral
8 Tribunals have consistently found that the use of equidistance
9 is not mandatory. I don't wish to presume on the patience of
10 the Tribunal or my colleagues from Guyana by going through the
11 litany of cases to make this point. Instead, we have assembled
12 at Tab 38 the pertinent extracts from the decisions of the
13 International Court of Justice and Arbitral Tribunals since the
14 seminal decision in the North Sea cases.

15 In this connection, where my distinguished colleague
16 Professor Schrijver finds discontinuity, I find substantial
17 continuity and cross-fertilization among and between not only
18 the decided cases, but among and between those cases and the
19 emergence of the Law of the Sea Convention. I find it
20 particularly surprising that one would identify the Jan Mayen
21 case as some halcyon transfiguration from which emerged a lucid
22 mathematical determinacy. To begin with, the parties to the
23 case were bound by the 1958 Convention on the continental
24 shelf, but not by the Law of the Sea Convention. But even in
25 that arguably more restrictive context, let us listen to what

11:59:51 1 Judge Schwebel had to say about that decision in his separate
2 opinion in the case. And I quote Judge Schwebel: "What is
3 clear is the Court leavens its Judgment with a large infusion
4 of equitable ferment, importing as it does a search for
5 "relevant circumstances" and so concocts a conclusion which
6 does not lend itself to dissection or, for that matter,
7 dissent. Based on large and loose approaches, such as its
8 gross impression of the effects of differing lengths of coasts,
9 its desire to afford equitable access to fishing resources, and
10 the attractions of the symmetrical conjoinder of indicated
11 lines of delimitation, the Court comes up with a line which,
12 given the criteria employed, may be as reasonable as another."

13 Now, obviously, Judge Schwebel was not very happy with
14 the Court's articulation of its understanding of the law and
15 its application in that case. But that does not mean that
16 Judge Schwebel misperceived what the International Court of
17 Justice in a 14-to-one decision understood the law and its
18 proper application to be.

19 As to Professor Schrijver's reference to President
20 Guillaume's characterization of the case law of the
21 International Court of Justice, I would simply note that
22 President Guillaume did not presume to speak for the Court.
23 Indeed, in the same discourse Judge Guillaume stated his very
24 strong views on what he terms "proliferation" of international
25 tribunals in that very same discourse, and those positions have

12:01:36 1 not characterized the positions expressed by President Higgins
2 in her scholarly writings and elsewhere, including her address
3 at the tenth anniversary of the International Tribunal for the
4 Law of the Sea, to which Guyana made reference during these
5 oral proceedings.

6 We have learned from the decided cases that there can
7 be problems with an equidistance line in delimitations between
8 both opposite and adjacent coasts, and that there are special
9 problems that arise with particular severity with delimitations
10 between adjacent coasts.

11 The main problem with the equidistance line derives
12 from its definition. An equidistance line is a line every
13 point of which is equidistant from the nearest points on the
14 respective coastal baselines. It is those nearest points that
15 control the location of an equidistance line, not the coast as
16 a whole. Indeed, the rest of the coast could be entirely
17 absent, and those points would still produce the same
18 equidistance line.

19 Mr. President, I was tempted to present a slide here
20 showing how the coasts of Guyana and Suriname disappear except
21 for the relevant points, but I didn't want to be misunderstood.

22 The problem may be self-correcting in the case of
23 opposite coasts. As the median line advances the nearest
24 points on the baselines change. But even as between opposite
25 coasts, a median line may be entirely inequitable. That's what

12:03:20 1 the International Court of Justice found in the Libya-Malta
2 case.

3 With respect to coasts that do not face the area to be
4 delimited from opposite directions, the fundamental problem
5 with equidistance is that it can cut off the frontal projection
6 of the coast of one of the parties.

7 For example, what happens if there is a small island
8 off a larger coast and the delimitation question concerns the
9 areas seaward of the small island and the larger coast? As we
10 may recall from our geometry lessons in high school, an
11 equidistance line in this situation may well look like a
12 parabola whose focus is the small island. The equidistance
13 line will gradually cut off more and more of the frontal
14 projection of the continental coast.

15 That was exactly the kind of problem faced in the 1992
16 arbitration between Canada and France with respect to the small
17 French islands of St. Pierre and Miquelon off the Canadian
18 coast. The map at Tab 39 and on the screen illustrates the
19 French claims based on those small islands. Those claims, as
20 is evident, cut off significant parts of the seaward projection
21 of the Canadian continental coast. The Arbitral Tribunal
22 endeavored to solve the cut-off problem by limiting the seaward
23 projection of the islands to a narrow corridor. A map of the
24 outcome of that case can be found at Tab 40.

25 A similar problem, by the way, was faced by the

12:05:06 1 Anglo-French arbitration panel with respect to the United
2 Kingdom's Channel Islands, Guernsey and Jersey, off the French
3 coast, and it came up with a solution of cutting off their
4 seaward projection to the north.

5 State practice suggests that as between islands, small
6 islands especially, equidistance will frequently produce a
7 satisfactory result. But even in that situation, the frontal
8 projection from the coast can be cut off.

9 The first slide here shows the effect of an
10 equidistance line in this situation as between Barbados and
11 Trinidad and Tobago. To solve the problem of cut-off of the
12 frontal projection of the coasts of Trinidad and Tobago,
13 another line was substituted for the eastern segment of the
14 boundary in order to avoid a cut-off of the seaward projection
15 of the eastern coastal front of Trinidad and Tobago, and the
16 direction was changed. The second slide indicates how this was
17 done. Copies of these slides are at Tab 42.

18 The result in the recent Barbados-Trinidad and Tobago
19 arbitration is an illustration of the continuity of
20 jurisprudence in the law of maritime delimitation. In many
21 respects, this latest in the series of arbitrations evokes the
22 reasoning as well as the outcome in the first of this series of
23 arbitrations, the 1977 Anglo-French arbitration. In that case,
24 a median line was used for much of the boundary between the
25 opposite coasts in the channel, but where the channel opened

12:07:01 1 out into the Atlantic to the west, the Arbitral Tribunal
2 deviated from equidistance by according half effect to the
3 Scilly Isles. Its reasoning in support of that conclusion was
4 evidently based on considerations of the cut-off of the
5 projection of the coastal front of the French coast. The
6 Tribunal expressed the concern that the United Kingdom's, and I
7 quote, "coastal frontage projects further into the Atlantic
8 than that of the French Republic."

9 It went on to explain, and I quote, "The greater
10 projection of the United Kingdom coast into the Atlantic region
11 is due in part to the fact that the most westerly point of its
12 mainland is situated almost one degree further to the westward
13 than that of the French mainland. But it is also due to the
14 greater extension westwards of the Scilly Isles beyond the
15 United Kingdom mainland than that of Ushant beyond the French
16 mainland.

17 "As a result, the further extension southwards of the
18 United Kingdom's coast has a tendency to make it obtrude upon
19 the continental shelf situated to seawards of the more westerly
20 facing coast of the French Republic in that region."

21 In the case of lateral boundaries between adjacent
22 states, the cut-off problems were amply described in the North
23 Sea cases; a coastal feature, whether a convexity or concavity
24 or small island, may distort the direction of an equidistance
25 line throughout its length. The effect is to swing the line

12:08:55 1 across the projection of the coastal front of one of the
2 parties.

3 Let's consider a simple example of two adjacent states
4 whose coasts run in the same direction. We have state A and
5 state B. As will be seen from the slide, the perpendicular to
6 the direction of the coasts and the equidistance line coincide,
7 leaving each coastal state with its own seaward frontal
8 projection.

9 Now, let's consider what happens when there is a
10 convexity on the left side of the terminus of the international
11 frontier and a concavity on the right side. The equidistance
12 line is pushed to the right by the convexity and pulled to the
13 right by the concavity. This cut-off of the frontal projection
14 of the coast of the state not only continues for the full
15 length of the line, it can get worse as the line moves out to
16 sea.

17 Mr. President, the law of maritime delimitation
18 requires us to consider an alternative line to avoid this
19 problem. That is what the Court said in the North Sea cases
20 and that remains the law. Coastal geography is the basis for
21 delimitation. Distortions created by particular coastal
22 configurations, especially in the case of lateral boundaries,
23 are a relevant circumstance, and avoidance of those distortions
24 is necessary in order to achieve an equitable result.

25 The question of how to achieve this is a different

12:10:43 1 matter. In this regard, there is no doubt that a tribunal has
2 considerable latitude as to the method or technique used to
3 resolve the problem based on its appreciation of what will work
4 best in the particular circumstances of the case.

5 There are three basic techniques that are used by
6 International Tribunals to avoid the encroachment or cut-off
7 problem. All three are rooted exclusively in coastal
8 geography.

9 One technique is to modify the equidistance line so as
10 to ignore or reduce the effect of small islands. We saw that
11 in the Anglo-French case. That technique would not appear to
12 be particularly relevant to the circumstances of this case
13 because there are no island problems in this case.

14 Now, in the absence of islands, we can get into
15 squabbles constantly over what constitutes a coastal feature
16 that should be ignored, what is a convexity, what is a
17 concavity; the problem with this is that these squabbles can
18 divert or distract a tribunal from the central legal objective.
19 That objective is to avoid, to the maximum feasible extent, any
20 cut-off of the frontal projection of each party's coast by
21 determining precisely where each frontal projection is, and by
22 selecting a line that equitably divides the area of unavoidable
23 overlap between those frontal projections.

24 Now, we believe that the angle bisector technique that
25 was used in the Gulf of Maine case responds directly to these

12:12:26 1 underlying objectives. Pursuant to this technique, the
2 Tribunal--not Suriname, not Guyana--the Tribunal draws two
3 lines to represent the general direction of the respective
4 coasts of the parties. Each line, in the Tribunal's judgment,
5 fairly represents the general direction of the relevant coast
6 of the party in question. The Tribunal then constructs a line
7 that bisects the angle formed by these two lines. That angle
8 bisector establishes the direction of the maritime boundary in
9 the areas where the frontal projections of the respective
10 coasts of the parties overlap.

11 In the Gulf of Maine case, the chamber employed an
12 angle bisector for the first segment of the boundary in that
13 case. There, as you can see, as the chamber can see in the
14 general direction, the coasts of the parties met at an angle.
15 The international frontier was here. This represented the
16 United States coast. This represented the Canadian coast.

17 I do want to note that the fact that a longer line was
18 drawn for the United States coast than for the Canadian doesn't
19 affect the angle bisector. The angle was the determining
20 factor in determining the direction of the bisector. The
21 bisector angle was then moved in that case to point A because
22 that was the point that the parties agreed was to constitute
23 the starting point of the maritime boundary. So, bisector
24 direction is determined by reference to the general direction
25 of the two coasts, and then that direction, which exactly

12:14:18 1 divides as two angles, was moved to the starting point agreed
2 by the parties for the maritime boundary. The parties in that
3 case had agreed on an arbitrary point because there was a
4 sovereignty dispute over an island which was unresolved.

5 A special case of the angle bisector arises where the
6 general direction of the coasts of the parties are the same.
7 We saw this in the maps from South America. In that event, the
8 angle bisector is a line perpendicular to the general direction
9 of the coast of both parties as determined by a single line.
10 That's normally used when the two coasts move in the same
11 general direction. And it has been used several times. It has
12 a very old pedigree. In fact, it was used in the 1909
13 Grisbadarna arbitration between Norway and Sweden. This was
14 the perpendicular, and then it was applied. There it was then
15 moved slightly by the Court, so as not to intersect one of the
16 banks--that was to move it between the two banks.

17 A perpendicular was used for the first segment in the
18 Tunisia-Libya case--[after no slide appears] all right, well,
19 take my word for it. A perpendicular was used in the
20 Tunisia-Libya case.

21 PROFESSOR SANDS: Tab 48?

22 PROFESSOR OXMAN: Yes. Tab 48, and a perpendicular
23 was used for the seaward segment in the Gulf of Maine case at
24 Tab 49.

25 Like the equidistance line, the angle bisector and the

12:16:21 1 perpendicular to the general direction of the coasts are rooted
2 in coastal geography, and this is very important. These are
3 not subjective methods. But because they avoid the effects of
4 coastal irregularities, the angle bisector and the
5 perpendicular have the virtues of an equidistance line, but not
6 its defects.

7 Every point on the angle bisector and every point on
8 the perpendicular is equidistant not only from the nearest
9 points on the lines representing the general direction of the
10 respective coasts, it's equidistant from all points on those
11 lines that are themselves equidistant from the starting point
12 of the angle bisector. And thus one of the effects of these
13 methods is that the entire coast influences the direction of
14 the line, not just isolated points that happened to be nearest
15 to the line of delimitation.

16 The use of an angle bisector eliminates distorting
17 effects of coastal irregularities, including convexities and
18 concavities. It ensures that the delimitation reflects the
19 frontal projection from all of the relevant coasts of both
20 parties. It minimizes the area of overlap, thereby leaving to
21 each party as much frontal projection of its coast as possible.
22 It divides equally between the parties the area where the
23 frontal projections of the respective coasts of the parties
24 overlap. And it produces a single line whose position and
25 direction is relative easy for fishing boats and law

12:18:11 1 enforcement vessels to ascertain.

2 Needless to say, Mr. President, any line that emerges
3 from any geographic method, including this one, needs to be
4 tested to ensure that the result is equitable. A most common
5 question in this regard concerns reasonable proportionality in
6 light of the length of the respective coasts, and we will be
7 hearing more about that from my colleagues later.

8 There are, however, other geographic circumstances,
9 and one such circumstance concerns navigation. In this case,
10 the purpose of the 10-degree line was to prevent British
11 control over navigation in the northern approaches to the
12 Corantijn River east of the 10-degree line and to secure Dutch
13 control. That purpose is primarily relevant to delimitation in
14 the territorial sea and the contiguous zone, and to that extent
15 we are not in disagreement with our colleagues from Guyana.
16 But it can also be relevant beyond the territorial sea.
17 Indeed, even in the arbitration with respect to only the
18 continental shelf, the French raised serious navigation and
19 security concerns regarding the area of the Channel Islands,
20 and this was described mainly in paragraphs 161 to 163 of the
21 opinion.

22 Now, France also observed there, and this was
23 interesting given the date, that it was worried about what
24 would happen with the eventual emergence of an Exclusive
25 Economic Zone. But, of course, at that point they couldn't

12:19:59 1 tell what the contours were. Today, it is clear the French
2 were right to worry. There is no doubt that navigation
3 interests are affected by the regime of the Exclusive Economic
4 Zone to a far greater extent than France suggested in 1977.

5 I think we have to start by recalling, especially in
6 this region, that the Exclusive Economic Zone represents an
7 historic compromise between a relatively narrow Territorial sea
8 and the claims to full territorial seas out to 200 miles of a
9 number of Latin American states, most notably in this region,
10 Brazil.

11 Thus, while the regime of the Exclusive Economic Zone
12 recognizes freedom of navigation for all states, there are
13 important qualifications that we believe the Tribunal needs to
14 bear in mind. If Guyana's Exclusive Economic Zone were
15 extended to areas east of the 10-degree line, then the
16 consequences would be as follows: Guyana could authorize the
17 construction of offshore oil rigs and other installations and
18 create broad safety zones around them that could interfere with
19 navigation to and from the Corantijn River. Guyana could board
20 and arrest ships traveling to and from the Corantijn River for
21 alleged pollution violations. Guyana could impose additional
22 controls over navigation with the approval of the International
23 Maritime Organization. Finally, if historic trends favoring
24 increased coastal state authority continue, including those now
25 suggested by the Commission of the European Union, Guyana could

12:21:48 1 exercise increased control over navigation to and from the
2 Corantijn River in the future.

3 Another pertinent geographic circumstance is direction
4 of the land frontier, which in this case corresponds to the
5 direction of the Corantijn River which, of course, is
6 north-south or roughly north-south. In the Tunisia-Libya case
7 concerning continental shelf delimitation, the International
8 Court of Justice recalled that in addition to equidistance, the
9 methods of delimitation examined by the committee of experts of
10 the International Law Commission in 1953, and I quote, "were
11 the continuation in the seaward direction of the land frontier,
12 the drawing of a perpendicular to the coast at the point of its
13 intersection with the land frontier, and the drawing of a line
14 perpendicular to the line of the general direction of the
15 coast."

16 The International Court of Justice then stated that,
17 and I quote, "The factor of perpendicularity to the coast and
18 the concept of prolongation of the general direction of the
19 land boundary are, in the view of the Court, relevant criteria
20 to be taken into account in selecting a line of delimitation
21 calculated to ensure an equitable solution."

22 The Court went on in that case to select a line that
23 reflected both criteria. I would only note that where a river
24 forms an international boundary, as it does in this case, there
25 may be additional practical reasons for projecting the river

12:23:27 1 boundary seaward so as to protect the access and control of
2 navigation established by the river boundary itself.

3 Perhaps the most frequently invoked nongeographic
4 circumstance in maritime cases is conduct, and it has been
5 invoked by Guyana in this case. Guyana's legal pronouncements
6 regarding conduct are in tension not only with the established
7 jurisprudence, but with the Law of the Sea Convention itself.

8 In approaching the question of conduct, it is useful
9 to recall that the fundamental principle regarding delimitation
10 is agreement. As the International Court of Justice stated in
11 the Tunisia-Libya case, and I quote, and this was quite
12 emphatic, "An attempt by a unilateral act to establish
13 international maritime boundary lines regardless of the legal
14 position of other States is contrary to recognized principles
15 of international law."

16 The case law with respect to conduct is clear. The
17 parties invoke conduct to support their maritime boundary
18 positions, and the Tribunals reject those positions. It is
19 quite consistent.

20 The International Court of Justice's most recent
21 articulation of the relevant standard is found in the
22 Cameroon-Nigeria case, where the Court once again refused to
23 consider boundary positions based on conduct. The
24 International Court of Justice said that concessions and oil
25 wells are not in themselves to be considered as relevant

12:25:15 1 circumstances. That was in paragraph 304. Only if they are
2 based on express or tacit agreement between the parties may
3 they be taken into account. Paragraph 304. But even that is
4 not dispositive. The question then is whether such express or
5 tacit agreement indicates a consensus on the maritime areas to
6 which the parties are entitled. Paragraph 304.

7 The Tunisia-Libya case on which Guyana relies is the
8 exception that proves the rule. In that case, the
9 International Court of Justice rejected all of the arguments of
10 both parties rooted in conduct alone, and the key word there is
11 "alone." It attached significance to conduct only as a factor
12 confirming the suitability of using a line rooted in coastal
13 geography; namely, a line that was a perpendicular to the coast
14 and followed the general direction of the land frontier. This
15 is evident from paragraph 119 of the decision. And in that
16 case, the relevant conduct included a modus vivendi regarding
17 fishing between the colonial powers based on the perpendicular
18 to the general direction of the coast--that's at paragraph
19 119--as well as a conscious use of the same approach in oil
20 concessions of both parties. Paragraph 86.

21 The lesson of the Tunisia-Libya case is that
22 long-standing conduct not amounting to express or tacit
23 agreement may reinforce the suitability of an equitable line
24 rooted in coastal geography, but it may not displace it.

25 Guyana's open-ended approach to the role of conduct in

12:27:18 1 delimitation has the inevitable effect of inviting states to
2 seek to establish indicia of effective control and of inviting
3 Tribunals to look for such indicia. This turns the Law of the
4 Sea on its head. One of the key juridical characteristics that
5 distinguishes the sea from the land is that effective
6 occupation is not supposed to yield sovereignty at sea. There
7 is no room under the Law of the Sea Convention for attempts to
8 create "éffectivités" that qualify or compromise the sovereign
9 rights or jurisdiction of coastal states over their exclusive
10 economic zones and continental shelves.

11 Guyana's arguments regarding conduct relate to conduct
12 in the period pending agreement on a maritime boundary, and
13 necessarily so. In other contexts, Guyana has made reference
14 to the interim regime established by paragraph 3 of Articles 74
15 and 83 of the Law of the Sea Convention. But when we come to
16 its assertion that conduct establishes a maritime boundary in
17 this case, then Guyana clearly prefers to avoid the
18 implications of the same interim regime.

19 That interim regime requires the parties not to
20 jeopardize or hamper the reaching of final agreement. It
21 specifies that efforts to sustain what it calls provisional
22 arrangements for this purpose shall be without prejudice to the
23 final delimitation. The use of the word "arrangements," rather
24 than "agreement," in paragraph three is clearly deliberate.
25 The same Article uses the word "agreement" where it means

12:29:16 1 agreement. The provisional arrangements need not be agreed,
2 they need not be binding, and they need not be reciprocal.

3 Guyana's invitation to give legal effect to its oil
4 concessions in disputed areas is in tension with an interim
5 regime whose manifest purpose is to encourage restraint. The
6 unquestionable meaning of paragraph 3 of Articles 74 and 83 is
7 that the ultimate delimitation should neither penalize
8 restraint, nor reward attempts to create a *fait accompli* by
9 proceeding with exploration or exploitation of nonrenewable
10 resources in disputed areas.

11 Mr. President, distinguished Members of the Tribunal,
12 from the perspective of the impact of the Award in this case on
13 international public order, this is a particularly troubling
14 aspect of Guyana's case. There remain many unresolved maritime
15 boundary disputes in the world. Some are very contentious and
16 difficult to control. To accept Guyana's open-ended
17 propositions regarding the legal effect of unilateral conduct
18 on maritime boundaries in disputed areas, to accept those
19 propositions risks throwing coals on the very fires that the
20 Law of the Sea Convention seeks to contain.

21 Mr. President, that concludes my remarks. I thank the
22 Tribunal for its attention, for its indulgence on my voice
23 which seems to be fading, and I can only express the hope that
24 I have in some small way assisted the Tribunal in its work.

25 Thank you, sir.

12:31:10 1 PRESIDENT NELSON: Thank you very much, Professor
2 Oxman.

3 And we are now 15 minutes away from lunchtime. I
4 presume we will break now and start 15 minutes earlier, so
5 we'll start at 2:15; is that right? 2:15. Thank you very
6 much.

7 (Whereupon, at 12:32 p.m., the hearing was adjourned
8 until 2:15 p.m., the same day.)

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12:31:53 1

AFTERNOON SESSION

2 PRESIDENT NELSON: I will now give the floor to
3 Professor McRae.

4 PROFESSOR McRAE: Thank you, Mr. President.

5 Mr. President, Members of the Tribunal, it is a great
6 honor and privilege for me to represent the government of the
7 Republic of Suriname before this Tribunal, and just by way of
8 opening, I might say I'm not sure if it's a consequence
9 affecting all of our team members, but I may have the Oxman
10 throat, and therefore my voice may change as time goes on. The
11 substance, hopefully, will not.

12 In President, I'm going to address two broad questions
13 that are central to this case, and they can be described simply
14 as geography and method. And by geography, I mean the way the
15 geographical features in this case are to be understood and how
16 they're to be taken into account as a matter of law. And by
17 method, I mean the method of delimitation that is appropriate
18 in the circumstances of this case.

19 Now, the claim that the other party has attempted to
20 refashion geography is the stock in trade of the maritime
21 boundary advocate, so to speak, part of the genre, and we
22 certainly heard it in Guyana's written pleadings, and my
23 learned friend, Mr. Reichler, could not resist the refashioning
24 charge in the course of his oral argument last week.

25 But although Mr. Reichler said he was going to talk

14:20:06 1 about geography, in fact, he talked mainly about delimitation
2 method, and particularly about the equidistance method. The
3 question of geography was, to a large extent, glossed over, and
4 his discussion of method was frequently based on assumptions
5 about the geography. And we will show that, in fact, Guyana's
6 position rests both on mischaracterizing the geography and then
7 confusing the geography and the method of delimitation. Much
8 of Guyana's geographical argument is derived from or reflected
9 in the report and testimony of their expert, Dr. Robert Smith.
10 And we will show that Dr. Smith's appreciation of the geography
11 has been rather selective; that Guyana has either tried to take
12 advantage of that selectivity or sought to characterize the
13 geography in a way that is not even supported by Dr. Smith.

14 And furthermore, as their presentation last week so
15 vividly emphasized, counsel for Guyana have allowed their
16 preferred method of delimitation to become the basis for their
17 analysis of the geography. Instead of showing how the
18 geography leads to the choice of a particular method, they have
19 analyzed the geography as if there was only one method. So,
20 it's little surprise that if at the end of the day they feel
21 that the method is supported by the geography, but as we will
22 show it clearly is not.

23 Now, in the light of what we have heard, it is our
24 view that we have to go carefully through the geographical
25 elements in this case once more. And although geography is, as

14:21:49 1 it were, constant and neutral, geography is what it is. The
2 way in which it is relevant to delimitation is a matter that
3 must be considered carefully. The real question is whether the
4 geographical elements that have been properly appreciated and
5 understood and given the appropriate weight in determining the
6 method of delimitation. And so, in this presentation, I shall
7 take the Tribunal through the basic concepts of geography that
8 are relevant to maritime delimitation and explain how they're
9 to be applied in the circumstances of this case. We believe
10 that a full appreciation of the geography is essential in order
11 to ensure the proper selection of the method of delimitation.

12 Now, a common statement in maritime boundary
13 delimitation is the phrase: A glance at the map will show.
14 Well, we want to ensure that a glance at the map reveals what
15 is actually there rather than what the glancer pretends is
16 there. And so we hope, Mr. President, that you will persevere
17 with us as we study rather than glance at the map.

18 So in setting out this geographical framework, I'm
19 going to explain the basic concepts that are essential to the
20 delimitation process: Relevant coasts, coastal fronts,
21 concavities and convexities, coastal projection, and relevant
22 area. And at each stage I shall point out why the perception
23 of geography that we have heard from Guyana in both its written
24 and oral pleadings is incorrect.

25 I will then turn to the methods of delimitation

14:23:30 1 considering both the equidistance method so favored by Guyana
2 and the bisector method that we have set forth in our written
3 pleadings. And I will explain why the appropriate method for
4 delimitation in this case involves the use of an angle
5 bisector.

6 Now, the essence of the argument that I shall be
7 presenting is that although the coasts of the two parties are,
8 as counsel for Guyana reiterated last week relatively
9 unremarkable, there are certain features on those coasts that
10 have an impact on a provisional equidistance line and distort
11 its course. As a result, the provisional equidistance line is
12 drawn inequitably across the coast of Suriname, but this
13 inequity can be avoided if the boundary is drawn on the basis
14 of coastal fronts; that is to say, a boundary that bisects the
15 angle formed by the intersection of coastal fronts, or to put
16 it another way, a line that is equidistant from generalized
17 coastal fronts, coastal fronts that have smoothed out the
18 distorting features. Now, I shall explain this in more detail
19 as my argument proceeds.

20 Now, before moving to a detailed analysis of the
21 geography of the area, since much of Guyana's appreciation of
22 the geography is based on the report of Dr. Smith, I would like
23 to make some preliminary remarks about that report. Dr. Smith
24 is, without doubt, highly regarded as a geographer, and he has
25 had considerable experience on maritime boundary issues working

14:25:05 1 for the United States Government, and he's made an important
2 contribution to the published information about maritime
3 boundary matters around the world. But as Professor Greenwood
4 pointed out, a somewhat higher standard of accuracy and
5 transparency is expected from an expert than Dr. Smith showed
6 in the figures he produced, and the cross-examination on Monday
7 showed that all of his numbers are completely unreliable, and
8 there was a troubling lack of transparency in his explanations.

9 Now, as for the other aspects of his report, there is
10 much in what Dr. Smith has said that is unexceptional. When
11 Dr. Smith as a geographer stays in his role as geographer, we
12 have less concern, but we do have problems when Dr. Smith
13 strays from that role and tries his hand at being a lawyer and
14 an advocate for the position of Guyana. Being an expert is one
15 thing, being an advocate is another, and we would suggest that
16 the Tribunal look with considerable caution when Dr. Smith, the
17 expert geographer, becomes Dr. Smith, the advocate.

18 We also suggest that caution should be exercised when
19 Dr. Smith as Guyana's expert appears to forget what Dr. Smith,
20 the expert geographer, wrote in a scholarly publication some 15
21 years ago.

22 And we further suggest that the Tribunal should be
23 even more cautious when it considers what Guyana has taken from
24 Dr. Smith's report and how it is trying to use it in support of
25 its case.

14:26:41 1 Now, I should say that in taking on the role of
2 advocate was not a matter entirely Dr. Smith's fault. Although
3 Dr. Smith seemed somewhat confused in cross-examination about
4 the task he'd been set in his report, if we look at the
5 question posed to him as set out in paragraph one of his
6 report, he starts at a disadvantage. He says specifically the
7 question is posed as to whether or not the coastlines of either
8 Guyana or Suriname give an unfair advantage in the calculation
9 of a boundary based on the equidistance methodology, an unfair
10 advantage.

11 We are somewhat puzzled by the question that Guyana
12 apparently put to Dr. Smith because it's not one that he's
13 really qualified to answer. Fairness and unfairness are not
14 geographical considerations. Geography is neither fair nor
15 unfair. Coastal features are neither fair nor unfair. I seem
16 to recall my colleague Mr. Reichler emphasizing that point just
17 last week. Conclusions about fairness or equitable solutions
18 or equitable results are reached by the application of legal
19 principles. The question of whether there is an unfair
20 advantage in the drawing of the equidistant line is a legal
21 question, not a factual question. Indeed, in many respects
22 it's the very question that this Tribunal has to determine. It
23 is not a question on which it's even appropriate for expert
24 evidence to be provided.

25 And so on that basis, one might even suggest that

14:28:15 1 Dr. Smith's report should be regarded as inadmissible. If you
2 rely on the question posed at the beginning of Dr. Smith's
3 report, it's not an expert report at all. Rather, it is a
4 submission on the law.

5 But, perhaps Dr. Smith realized there was a danger in
6 straying into legal analysis because he does seem to talk about
7 unfairness as if it were a geographical concept and not a legal
8 concept. So, in paragraph four of his report he talks about
9 seeing whether features that influence the course of an
10 equidistance line cause a geographic imbalance in the boundary
11 area. In paragraph nine he talks about a geographic anomaly
12 occurring on the Suriname coastline. And in paragraph 18, he
13 says in the North Sea cases the ICJ found the geographical
14 situation to be unfair.

15 Now, this treatment of geography in value-laden terms
16 puzzles us. You only have to go to the decision of the chamber
17 of the Gulf of Maine case to find a rejection of the idea that
18 value should be placed on geography. In discussing the United
19 States distinction between primary and secondary coasts in that
20 case, I think this is part of the kitchen sink that Dr. Smith
21 was talking about that was thrown into that case. The chamber
22 said, "Geographical facts are not in themselves primary or
23 secondary. The distinction in question is the expression not
24 of any inherent property in the facts in nature, but of a human
25 value judgment."

14:29:48 1 And the chamber said, "Again, the same may be said as
2 regards the idea put forward in the course of the proceedings
3 that certain geographical features are to be deemed aberrant by
4 reference to the presumed dominant characteristics of an area
5 coast or even a continent." That was all from paragraph 36 of
6 the judgment.

7 Well, such a consideration was obviously not in
8 Dr. Smith's mind when he discovered a geographical anomaly
9 along the Suriname coastline. But in our view, the conclusion
10 that fairness or unfairness can exist results only from
11 applying a particular geographical--a particular method of
12 delimitation to a geographical area. Unfairness does not exist
13 in the abstract. On its own, geography is neither unfair nor
14 anomalous. It just is. What is unfair, inequitable, or
15 equitable is the consequence of the application of a method,
16 and that is a legal and not a geographical conclusion.

17 And so, we feel that Dr. Smith in his report
18 overstepped the mark where he sought to stand in the shoes of
19 the Tribunal and determine whether the provisional equidistance
20 line produces a result that is equitable, and he does this
21 quite directly in paragraph 32, where he says that the first
22 section of the provisional equidistance line looks to be
23 dividing in a pretty fair manner the maritime jurisdiction that
24 is projecting from both coastlines.

25 And I take him to be saying essentially the same thing

14:31:20 1 when he says in paragraph 39 that Suriname makes out quite
2 nicely when equidistant lines are used in the maritime
3 boundaries.

4 So, as I mentioned, an opinion or a conclusion about
5 the fairness of the result and the application of matter is not
6 in the application of equidistance, is not a matter on which
7 expert opinion can be adduced. We believe that on this point
8 Dr. Smith's opinion can have neither relevance nor weight.

9 Let me turn to a few remarks, again as a preliminary
10 matter, to reiterate what my colleague, Professor Oxman, has
11 said. And this is about the relevance of geography to maritime
12 boundary delimitation. And geography has obviously become the
13 primary and in many instances the sole relevant circumstance
14 for maritime boundary delimitation. And listening to my
15 colleague, Mr. Reichler, the other day, it appeared that the
16 parties were in agreement on this, but although Mr. Reichler
17 seemed to be saying that geography was important, and we both
18 agree on that, we believe that what he was really saying is
19 that geography is not important. We believe geography is
20 important because it was said it was from an appreciation of
21 the geography that the appropriate method is determined. But
22 if you have only one method, as Guyana does, equidistance that
23 may be modified, then the geography does not matter. You
24 simply go to equidistance, no matter the geography. So,
25 notwithstanding Mr. Reichler's claims that we are together, I

14:32:58 1 believe that we are probably quite far apart.

2 Now, there is an underlying and quite fundamental
3 reason for the focus on geography in maritime delimitation, and
4 as courts and tribunals have emphasized, title to ocean space
5 derives from the coast, and that title justifies the
6 jurisdictional extension from the coast to the distance of 200
7 nautical miles. The centrality of geography to the basis of
8 title and delimitation should not, however, be interpreted as
9 giving any priority to equidistance as a method of
10 delimitation. From the Gulf of Maine case onwards, courts and
11 tribunals have rejected the determinism of the distance leads
12 to equidistance theory. Nevertheless, we believe that that
13 notion is implicit in Guyana's position on geography and
14 method.

15 Indeed, Professor Schrijver went much further. He
16 abandoned the subtlety that has marked the discussions of the
17 use of equidistance as a preliminary step and said that
18 essentially the law now requires equidistance, though perhaps
19 modified from time to time. And as my colleague Professor
20 Oxman has demonstrated, this is wrong as a matter of history,
21 it is a wrong as a matter of policy, and it is wrong as a
22 matter of law.

23 There is little doubt, then, if we're going to search
24 for the appropriate method of delimitation, we have to start
25 with the geography, and it's this that I will now return to. I

14:34:30 1 should mention that in this presentation I'm going to be using
2 a large number of slides. They are in your binder for the day.
3 All the maps and graphics are numbered consecutively, and
4 they're there for your future reference, but I would suggest,
5 if you watch the screen, you will be able to see dynamically
6 what can be only presented in your book in static form. We can
7 point to things on the screen that simply can't be pointed to
8 you in the book, so I suggest that you will find following my
9 presentation on the screen will be much more useful than trying
10 to follow it in the book.

11 As has already been mentioned, geography in the
12 context of maritime delimitation means coastal geography, and
13 so it's the coastal geography of Suriname and Guyana that we
14 must consider. The coasts of the two countries can be
15 considered on a macrogeographical scale. From Venezuela to
16 Brazil, the northeastern coast of South America.

17 Now, while such a perspective may be interesting, it
18 is not particularly helpful when the objective is maritime
19 boundary delimitation. In fact, Guyana's expert, Dr. Smith,
20 said as much in his report when he noted, "It is difficult,
21 however, when reviewing the entire South American east coast to
22 appreciate what impact the coastlines of Guyana and Suriname
23 may have on the boundary in question." That was from paragraph
24 13 of his report. Unfortunately, as we will see, Dr. Smith
25 didn't always follow his own admonition, but I think that there

14:36:07 1 is one thing that is quite clear from this macrogeographical
2 perspective. That is, there is a change of coastal direction
3 where the coasts of Guyana and Suriname meet, and this becomes
4 even more obvious when a closer view is taken of the coasts,
5 when it is seen that the change in direction occurs at the
6 mouth of the Corantijn River.

7 Now, it may not be a change in the direction of the
8 coastline of South America as Dr. Smith chided us in his
9 report, but it is a change in the orientation of the coasts of
10 Suriname and Guyana in relation to each other; and this is
11 simply a reflection of the fact that the coast of Suriname
12 generally runs in an east-west direction, and the coast of
13 Guyana runs generally in a northwest-southeast direction. The
14 coast of Suriname generally faces north, and the coast of
15 Guyana generally faces northeast.

16 Now, there are, of course, particular local deviations
17 from these general directions and I will come back to them
18 shortly, but the identification of a change in direction of the
19 coasts of the Corantijn River is simply a statement of
20 geographic fact.

21 And in broad and general terms, there is nothing
22 particularly remarkable or complicated about the coasts on
23 either side of the Corantijn River. This is not the Norwegian
24 skjærgård with its fiords and offshore islands. It is not the
25 Gulf of Maine with a deep coastal indentation. Nevertheless,

14:37:45 1 there are a number of features which have been noted in the
2 pleadings and form an important part of the way that the
3 parties view the case.

4 Now, a noticeable general feature of the geography in
5 this area is that on both sides of the boundary the coast is
6 broken by the mouths of a series of rivers. We can start with
7 the Corantijn River itself, where the land boundary is located,
8 proceeding east along the Suriname coast there is the Coppename
9 River and then the Suriname River on which the capital of
10 Suriname, Paramaribo, is located.

11 And then turning to the Guyana side proceeding from
12 northwest from the Corantijn River, there is the Berbice River,
13 and the larger Essequibo River, and there are smaller rivers on
14 the coast, but they play no role in this case. I'm sure all of
15 this is commonplace by now to the Tribunal, but I mention these
16 rivers because they are, in a sense, markers for the coastal
17 figures that have figured in the arguments of the parties.
18 Between the Corantijn and Coppename Rivers, the Suriname coast
19 starts at Turtle Bank and then recedes or falls away. Now,
20 this recessed coast is a relatively minor feature and does not
21 alter the broad east-west general direction of the coast, but
22 it does have some significance to this case as I will point out
23 later.

24 Beyond the Coppename River, the coast and the mud bank
25 associated with it bulges in the opposite direction from the

14:39:16 1 preceding coast, and this, of course, is Hermina Bank. Beyond
2 the Hermina Bank there is a further mud bank accretion known as
3 Vissers Bank. Of course, both of these features have exercised
4 counsel for Guyana considerably in their written pleadings and
5 oral argument, and I will be coming back to talk about both
6 features later in the course of my presentation.

7 Beyond the Suriname River there is a feature similar
8 to Hermina Bank, this is Warappa Bank which continues the
9 easterly trend of the Suriname coast, but after the Warappa
10 Bank, the coast tends to lose its easterly direction and starts
11 heading in a southeasterly direction towards the land boundary
12 with French Guiana.

13 And if we turn to the Guyana side, between the
14 Corantijn and Berbice Rivers, the coast is more rounded, and
15 initially moves somewhat north from the river and then it
16 settles into a northwesterly trend. The coastal protrusion
17 that is there immediately, although unnamed, is a distinct and
18 noticeable feature, and it is--it has featured prominently in
19 the proceedings, and you will hear something of it, in fact,
20 quite a lot about it from me. And for ease of reference I will
21 refer to it by the name of the Colony it once was, Berbice, so
22 I will call that feature the Berbice Headland.

23 At the Essequibo River, there is a further change in
24 direction as the coast again heads north briefly towards
25 Devonshire Castle Flats, when it turns northwesterly again and

14:40:53 1 then continues on in that general direction towards Guyana's
2 boundary with Venezuela.

3 Now, after describing the physical geography of the
4 area, it's important to mention the key factor of the political
5 geography, and that is the location of the land boundary
6 terminus. And as Professor Oxman has pointed out, the only
7 possible location for the land boundary terminus is at the
8 intersection of the 10-degree line with the coast on the edge,
9 as it were, of the Berbice Headland. And the location of the
10 land boundary terminus is an important factor in determining
11 the coastal relationships of the parties. In the Gulf of Maine
12 case, for example, the chamber noted the existence of the land
13 boundary terminus in the corner of the rectangle that formed
14 the Gulf of Maine and then it criticized Canada for having
15 failed to take account of the change in the coastal
16 relationships the further away the coasts were from the land
17 boundary terminus. And I will be pointing out later that in
18 our view, failure to take account of the significance of the
19 fact that the land boundary terminus is located beside the
20 Berbice Headland has led Guyana into error both in its
21 appreciation of the geography and in its assessment of the
22 effect of the provisional equidistance line.

23 Now, we would have thought that our description of the
24 coastal directions of the two States was fairly unexceptional;
25 and on our initial reading of Dr. Smith's report, we thought he

14:42:26 1 agreed with us. But then on closer examination, we found that
2 there was a certain amount of sleight of hand in Dr. Smith's
3 report. Dr. Smith starts with the macrogeographical
4 perspective, arguing from Venezuela through French Guiana, the
5 general trend of the coastline is southwest. That was at
6 paragraph nine of his report. Later, he said Guyana's
7 coastline generally faces northeastward. That was at paragraph
8 15. And then he said, on Guyana's side of the Corantijn River,
9 the coastline clearly faces to the northeast. Paragraph 32.
10 Well, so far so good. One could hardly disagree that Guyana's
11 coasts generally face northeast. Both the macro and micro
12 perspectives coalesce.

13 But when it comes to Suriname's coastal direction,
14 Dr. Smith is much more reticent. In fact, in his report he
15 does not identify a direction for Suriname's coasts taken on
16 their own. In his conclusion, he talks about a provisional
17 equidistance line that would best reflect the
18 northeastward-facing coastlines in this region of South
19 America. In other words, based on a macrogeographical
20 perspective of the northeast coast of South America, Dr. Smith
21 links the coasts of Guyana and Suriname and treats them both as
22 having a common northeastward-facing direction. And just as
23 Dr. Smith failed to note the fact that the coast of Suriname
24 faces north, so did my colleague, Mr. Reichler, the other day.
25 He mentioned that the coastline runs southeast along Guyana's

14:44:09 1 and then along Suriname's coastline, and then continues further
2 to the southeast past Suriname's boundary with French Guiana.
3 But he did not say, he could not bring himself to say, I
4 suppose, that between the Corantijn River and Warappa Bank,
5 Suriname's coast faces north.

6 And the inconsistency--this with reality--is patent.
7 You only have to look at the coastal front lines that Dr. Smith
8 draws in his report. While the Guyana coastal front line faces
9 in a northeasterly direction, the coastal front line for
10 Suriname faces north. And if you look at the images
11 Mr. Reichler showed of coastal base points, Guyana's coast
12 faces northeast and Suriname's coast faces north. Suriname's
13 coast viewed in the context of the South American continent may
14 be part of a northwest-southeast trend, but Suriname's coast in
15 the boundary area faces north, not northeast.

16 Now, in maritime boundary delimitation cases coasts
17 have been defined as opposite or adjacent. Sometimes it has
18 been suggested that the relationship is mixed. Well, in this
19 case, there is no dispute over the matter. Suriname and Guyana
20 coexist side by side on the northeast coast of South America.
21 They're adjacent states, and the coasts form a relationship of
22 adjacency. Again, too, this is not a matter in dispute between
23 the parties. What is in dispute is the implications that this
24 adjacent relationship has for delimitation.

25 Well, having identified the coasts of Suriname and

14:45:57 1 Guyana in general terms, I now turn to the question of which
2 coasts. Which of the coasts of the two States are relevant to
3 the task of delimitation before the Tribunal?

4 Now, identifying the coasts that are relevant is a
5 common and necessary practice in maritime delimitation. It's
6 necessary because not all of the coasts of the parties are
7 relevant. Only those coasts that are related in some way to
8 the problem of delimitation that the Tribunal has to resolve
9 can be of any help for the purposes of delimitation. And here
10 the distinction between opposite and adjacent coasts becomes
11 important. The solution to the problem of identifying the
12 relevant coasts is easier in the case of opposite coasts.
13 Since opposite coasts at the same time both face each other and
14 face into the area to be delimited, then prima facie those
15 facing coasts are the relevant coasts.

16 In the case of adjacent coasts, identifying facing
17 coasts is somewhat more complicated. Adjacent coasts do not
18 face each other in the same sense that opposite coasts do. But
19 depending upon their orientation, they will at least, in part,
20 both face into the same area of the ocean. In the case of
21 adjacent states, this common area which they face will be the
22 area to be delimited.

23 Now, in deciding how to determine the relevant coasts
24 in this case, that is, the coasts that face into the area to be
25 delimited, we have to look to see what has been said and how

14:47:42 1 the relevant coasts have been determined or identified in other
2 cases involving adjacent states. And broadly speaking, two
3 things have emerged from the jurisprudence: First, the
4 determination of the relevant coasts is a matter of judgment.
5 It is not a scientific or technical exercise. So, in the
6 Newfoundland-Nova Scotia arbitration, the Tribunal pointed out
7 that the process of determining the relevant coasts was not
8 something that could be done with scientific exactitude. What
9 one looked for, the Tribunal said, were coasts that contributed
10 to the delimitation in a general sense.

11 Second, the relevant coasts have to be determined
12 independently of any delimitation method. In Cameroon-Nigeria,
13 the Court said that the relevant coasts were not to be
14 determined by reference to the base points for the drawing of
15 the equidistance line, and the same point was made by the
16 Arbitral Tribunal in the Barbados-Trinidad and Tobago which
17 rejected the use of base points as the basis for determining
18 the relevant coasts. Relevant coasts, the Tribunal said, are
19 not strictly a function of the location of base points, and
20 that was at para 369 of the Tribunal's decision.

21 So, how do we go about defining the relevant coasts?
22 The Barbados-Trinidad and Tobago Tribunal spoke of the coasts
23 abutting on the areas to be delimited, and that's another way,
24 I think, of putting the point already mentioned that relevant
25 coasts are those that contribute to the delimitation in a very

14:49:18 1 general sense.

2 Now, in the Gulf of Maine case, the chamber identified
3 the relevant coasts by reference to the coasts that frame the
4 delimitation area. So, it identified the coasts around the
5 Gulf of Maine as the framing of the delimitation area, but it
6 treated as irrelevant coasts that were outside, even though
7 those coasts had been identified by the parties as framing the
8 broader Gulf of Maine area, so the coasts going northeast from
9 Cape Sable up to the coast of Canada, of Nova Scotia and the
10 coasts going southwest from Cape Cod were argued by the parties
11 to be part of the Gulf of Maine area, but they were rejected by
12 the Tribunal as irrelevant to the delimitation. In short,
13 there was a close relationship between the coasts and the area
14 to be delimited, and any suggestion that coasts outside that
15 area should be taken into account was rejected.

16 Now, as we have pointed out in our written pleadings,
17 and the jurisprudence shows, the relevant coasts are coasts
18 that face onto or abut the area to be delimited. And this
19 means that the relevant coasts are those that extend to a point
20 where the coasts face away from the area to be delimited. On
21 Suriname side, the relevant coast extend from the Corantijn
22 River to the Warappa Bank. From there on, the coasts turn
23 southeasterly, and since it no longer faces or abuts onto the
24 area to be delimited, it is no longer relevant.

25 On the Guyana side, the relevant coast extends from

14:50:56 1 the Corantijn River to the Essequibo River, and as I mentioned
2 earlier, after a short turn northwards, the coast returns to
3 northwesterly trend, but from Devonshire Castle Flats on, it no
4 longer faces or abuts into the area to be delimited.

5 Now, Guyana's response to our identification of the
6 relevant coasts has evoked metaphors from the field of surgery.
7 In the case of their coasts, we were accused of amputation. In
8 the case of our coasts, I think the metaphor moves to cosmetic
9 surgery, and we were accused of enhancement. My colleague
10 Mr. Reichler saved some of his choice rhetoric, I think, for
11 our determination of the relevant coast, and I think he said
12 circular, subjective, and arbitrary, but he was silent on the
13 jurisprudence on which our determination of the relevant coasts
14 was based, and pretending that the jurisprudence does not exist
15 does not make it go away.

16 Guyana's principal objection to the relevant coasts
17 identified by Suriname is that they're not determined by
18 reference to its own delimitation method. It wants the
19 relevant coasts to extend to the outer base points for the
20 drawing of an equidistant line. So, it takes the view that on
21 the Guyana's side, the relevant coasts identified by Suriname
22 is too short because it does not extend to cover all of the
23 base points from which an equidistance line would be drawn, and
24 on the Suriname side, the coasts identified by Suriname or the
25 coast identified by Suriname is too long because it extends

14:52:33 1 beyond the equidistance base points.

2 And the simple response to this is that it is just
3 wrong, as a matter of law. The determination of the relevant
4 coasts is not an operation that is linked to any particular
5 delimitation method. As my colleague, Professor Greenwood,
6 said in his opening address yesterday, it is the geography that
7 dictates the method, not the method the geography, and that's
8 why the Court in the Nigeria-Cameroon case said that it must
9 define the relevant coasts of the parties by reference to which
10 the location of the base points to be used in the construction
11 of the line will be determined. In other words, it's the
12 relevant coasts that are used for defining the base points, not
13 the other way around.

14 Now, Guyana also claims support from Dr. Smith for
15 defining the relevant coasts by reference to equidistant base
16 points, but we already pointed out, I think, in the Rejoinder,
17 that that was not what Dr. Smith said. He said simply that
18 since the question was whether the provisional equidistance
19 line was appropriate, one could look at the coasts extending to
20 the equidistance base points, and that's quite a different
21 point.

22 And Dr. Smith admitted in cross-examination that you
23 might have different relevant coasts if you were looking at
24 different delimitation methods.

25 Now, a question related to the identification of

14:53:54 1 relevant coasts is the question of how these coasts are to be
2 represented. And Suriname has done so by the use of
3 straight-line coastal fronts. Now, Guyana's objection to
4 Suriname's coastal fronts to the way they are drawn, to their
5 length, to the direction they take, but in our view Guyana can
6 really have no objection in principle to the use of coastal
7 fronts as an aid to maritime delimitation. Indeed, Guyana's
8 expert, Dr. Smith, recognizes that using a single-line coastal
9 front is one method to calculate a state's relevant coastline,
10 although he suggests others as well. And as we shall point
11 out, Guyana's own relevant coastlines are, in fact, based on a
12 coastal front methodology.

13 Now, the idea of coastal fronts is really quite
14 simple. The relevant coasts could be represented, as they
15 actually are, following the low-water mark, along the
16 sinuosities of the coast, or they can be generalized and viewed
17 as simple straight coastal fronts. And for the purpose of
18 drawing coastal fronts, a simple straight line could be used
19 instead of following all sinuosities, or a series of straight
20 lines could be used. Courts and tribunals have frequently used
21 a coastal front method for determining coastal direction and
22 projection, as well as for measuring coastal lengths. That was
23 done in the Gulf of Maine case. It was done in the
24 Canada-France arbitration over St. Pierre and Miquelon.

25 Now, with respect to the coastal front on the Suriname

14:55:35 1 side, the coast runs in general east-west direction, and so
2 does the coastal front. In respect of Guyana's coast, it runs
3 northwesterly and southeasterly, and the coastal front line
4 drawn by Suriname reflects this.

5 Now, admittedly the Guyana coast is somewhat more
6 complicated. In a sense, it consists of three segments. The
7 first segment from the Corantijn River to the Essequibo River,
8 which we have just drawn, there is a short segment north to
9 Devonshire Castle Flats, and then there is the Devonshire
10 Castle Flats northwesterly to the border of Venezuela, the area
11 that I said is clearly outside the relevant coasts.

12 Now, the Guyana coast is so--as a result, the Guyana
13 coast is what one might say stepped out at the Essequibo River.
14 Now, Suriname's coastal front line for the coast of Guyana
15 reflects the fact that only the first segment faces into the
16 area to be delimited, although arguably the short second
17 segment could be said to do so as well. Beyond Devonshire
18 Castle Flats, as we pointed out, the coast no longer faces into
19 the area to be delimited, and it's simply not relevant. So, it
20 should not be included in Guyana's coastal front.

21 Now, Guyana's substantive disagreement with the
22 coastal front lines drawn by Suriname is that they purport to
23 represent coasts that face the area to be delimited, and Guyana
24 claims that Suriname's approach lacks legal or logical
25 foundation and that it is subjective. Well, we already pointed

14:57:12 1 out the legal foundation for drawing coastal front lines in
2 order to reflect coasts that face the area to be delimited, and
3 we have not seen any contradiction of that point by Guyana, but
4 let us look at the alternative that Guyana proposes. A
5 so-called mathematical way of determining the relevant coastal
6 fronts which presumably solves the problems of logic and
7 subjectivity which ours apparently have fallen into, and I want
8 to refer to the study here found at Annex 3 of the Guyana's
9 Reply, the Johns Hopkins report, and Guyana presented this
10 report to the Tribunal as an independent report from the John
11 Hopkins Applied Physics Laboratory which determined
12 mathematically which parts of Guyana's and Suriname's
13 coastlines actually face the maritime boundary and the lengths
14 of those facing coasts.

15 And that was from paragraph 3.26 of the Reply.

16 The Johns Hopkins report produced, we were told,
17 something called area balance lines, lines that had the same
18 amount of water on the land side of the line as land on the
19 water side of the line.

20 Now, we were intrigued by the fact that counsel for
21 Guyana did not refer to the Johns Hopkins area balance lines in
22 argument last week, and we wondered whether Guyana had
23 abandoned reliance on this study. Perhaps they realized after
24 the Reply had been filed that they had forgotten to apply the
25 Gertrude Stein test to it.

14:58:48 1 In any event, while we have no doubt the report was
2 independent, and we accept without qualification that the
3 process of the Johns Hopkins experts were engaged in was
4 mathematical, we cannot see how the result does what Guyana
5 claims for it. The lines that the study produces simply do not
6 represent coastlines that actually face the maritime boundary.

7 Now, let me look closely at what the Johns Hopkins
8 experts have done, and if you'll forgive me, I will not use the
9 technical language of geodesists, but a language that as a
10 simple lawyer I can understand.

11 Essentially what the Johns Hopkins experts purported
12 to do was to take a series of low tide points along the coast
13 of Guyana and then of Suriname and run a linear regression line
14 through those points. Now, a linear regression simply provides
15 a balance between all of the points, and it's a perfectly
16 acceptable method in order to find a line of best fit for those
17 points. And if the low tide points actually reflect the
18 contours of the coast, including coastline protrusions and
19 indentations, such a line could balance the distance between
20 the low tide points on either side of the line. This will
21 balance those protrusions and indentations, land, and water on
22 either side of the line.

23 Well, so far so good, but that's not quite what the
24 Johns Hopkins experts did. Their linear regression line, their
25 line of best fit, has a predetermined starting point at point

15:00:42 1 GL 001, which is practically on top of the 1936 Point or Point
2 61. But if you're line of best fit has a predetermined
3 starting point, then it's no longer a line of best fit. It's
4 no longer a real regression through the low tide points. It's
5 a line of best fit altered to coincide with a particular
6 starting points. Let me illustrate this.

7 A linear regression line through the points on the
8 graph runs like this. And that line balances the distance to
9 the points on either side of the line. But if you require that
10 the line start at a defined point, then it runs on a graph like
11 this. It is no longer a true line of best fit for the points
12 on the graph.

13 So, if you predetermined that the linear regression
14 line must run through any particular low tide point, it's no
15 longer a line of best fit for all of those points. And that is
16 the first problem with the Johns Hopkins area balance lines.
17 By predetermining the starting point, you are, in a sense,
18 predetermining the line. But there is a further sense in which
19 the area balance lines are predetermined. The Johns Hopkins
20 experts list low tide points through which the line of
21 regression runs along practically the whole of the coast of
22 Guyana and practically the whole of the coast of Suriname. And
23 they're quite frank about this. They were trying to get the
24 longest line possible. So, a built-in assumption was that the
25 whole of the coastlines of Guyana and Suriname potentially face

15:02:37 1 the area to be delimited. In short, the very point that Guyana
2 says the Johns Hopkins experts were determining
3 mathematically--that is, which parts of the coasts actually
4 face the maritime boundary--was assumed right from the outset.

5 And if the Johns Hopkins experts had not been
6 constrained to start the line at a predetermined point and to
7 end it on the coast, their area balance line on the Guyana side
8 would have continued all the way to the Venezuela border, and
9 on the Suriname side it would have continued all the way to the
10 French Guiana border, so that all of the coasts of both of the
11 parties would have faced the maritime boundary.

12 So that the predetermined--the constraint of a
13 predetermined starting point imposed a constraint of an ending
14 point. The land that was gained as the line started out could
15 not be fully compensated for, if the line continued right to
16 the Venezuela border, so it had to be stopped short. So, in a
17 sense the constraint at the start of the line forced a
18 constraint at the end of the line.

19 And my point is simply that if the assumption is that
20 all of the coasts of Guyana or of Suriname potentially face the
21 area to be limited, then a linear regression through the low
22 tide points along the whole coast can produce a line that will
23 run the whole length of that coast. But if you start at a
24 predetermined point, it may not.

25 Now, if the Johns Hopkins experts had been asked to

15:04:24 1 start with the assumption that the relevant coasts are the
2 coasts that face into the area of convergence or overlap of the
3 coastal projections of the two States, an assumption that we
4 would say is based in the jurisprudence, then a linear
5 regression line would have been run for the low tide points on
6 those particular lengths of the coasts, and we've applied the
7 Johns Hopkins methods to the coasts we identify as relevant
8 from the Corantijn River to the Essequibo River on the Guyana
9 side, and from the Corantijn River to the Warappa Bank on the
10 Suriname side. Those are the area balance lines applying the
11 Johns Hopkins method for the relevant coasts identified by
12 Suriname. And what is interesting to note is that the coastal
13 direction line for Suriname is essentially in the same azimuth
14 as the coastal front line identified by Suriname, and the area
15 balance line for Guyana runs practically the same as the
16 coastal front line identified by Suriname. Suriname identified
17 a coastal front line of 304 degrees, azimuth of 304 degrees.
18 That area balance line is 307 degrees.

19 Now, we are casting no aspersions on the work of the
20 Johns Hopkins experts. They were no doubt asked to start the
21 line at a predetermined point, and they were no doubt asked to
22 produce the longest line possible, the very things that we say
23 have predetermined the result. But if you start with
24 assumptions about the outcome, or if you start with assumptions
25 that predetermine the outcome, you cannot claim the method you

15:06:02 1 used proves what you predetermined, and you certainly do not
2 need the mathematical expertise of Johns Hopkins University to
3 prove something if you have already predetermined it.

4 But even if the result was not preordained, there is
5 still a problem with the Johns Hopkins lines. And it's
6 inherent in the notion on which the whole approach is founded.
7 What is the relationship between balancing land and water on
8 either side of the line and the orientation of the coast
9 towards the delimitation area? So, if Guyana had put forward
10 the Johns Hopkins lines as lines that reflected the general
11 direction of the coasts they lay along, we might have thought
12 that that made some sense. We might have found it easier to
13 understand what they were trying to say. The claim would have
14 still been irrelevant because the lines include coasts that
15 have nothing to do with the delimitation, but they claim more
16 than that. They claim that these lines actually face the
17 maritime boundary. Well, they certainly face the ocean.
18 Coasts do have a tendency to do that, and lines drawn along the
19 coasts will do the same thing. But facing the maritime
20 boundary or facing the area to be delimited is quite a
21 different and a much more restricted notion.

22 If we look at some other boundary areas, we will see
23 why Guyana's claim that the Johns Hopkins lines face the
24 maritime boundary is simply not credible. Look at the
25 Tunisia-Libya case. There the Court treated the coast as far

15:07:40 1 as Ras Tajoura as relevant because beyond that point the coasts
2 did not face into the area to be delimited. But if the Johns
3 Hopkins method had been applied to the Libyan coast, and we
4 have done this taking a limited number, not as many as Johns
5 Hopkins experts took, but enough representative low tide
6 points. If the Johns Hopkins method had been applied to the
7 Libyan coast, that is if the linear regression line is drawn
8 through the low-tide points on the coast starting from the land
9 boundary terminus, the line would extend well beyond Ras
10 Tajoura. Does that mean the ICJ was wrong in its perception of
11 the coasts that faced into the area to be delimited?

12 And by the same token, the Johns Hopkins approach
13 could be applied to the coast of the United States in the Gulf
14 of Maine area, which starting from the land boundary terminus
15 would produce an area balance line that ran the full length of
16 the East Coast of the United States all the way down to Tampa,
17 Florida. So, according to the Guyana's approach, the coast of
18 the Carolinas apparently faced into the Gulf of Maine
19 delimitation area.

20 Now, attempting to find a way of determining coasts
21 that face the maritime boundary or face the area to be
22 delimited is an objective that is worthy and is logical and
23 it's to be commended, but there is no logic to a method that
24 includes as coasts facing the boundary area coasts that
25 patently do not do so. We would suggest, therefore, that the

15:09:15 1 Johns Hopkins report deserves to be put into the category of
2 research that is interesting, technically accurate, but of no
3 practical use, at least for the purpose that Guyana claims to
4 use it.

5 So, Guyana's mathematical rebuttal of Suriname's
6 coastal front lines really comes to nothing. So what then does
7 Dr. Smith say about coastal front lines? Well, Dr. Smith does
8 not seem to agree with my colleague Mr. Reichler's attack on
9 coastal fronts because for Dr. Smith, coastal fronts seem to be
10 quite benign. He says that there is simply one method that can
11 be used in maritime delimitation to represent coasts, and he
12 shows how this can be done for Suriname and Guyana. And that
13 was Figure 10 of his report.

14 But when it comes to discussing the coastal front
15 lines drawn by Suriname, what Dr. Smith has to say is somewhat
16 perplexing. He states somewhat guardedly, I would say, in
17 paragraph 42 of his report that Suriname's approach to creating
18 coastal fronts may be subject to criticism. And I think the
19 guardedness was obviously deliberate because his criticism of
20 Suriname's coastal fronts does not, in fact, amount to anything
21 of any real consequence.

22 His principal criticism seems to be that the coastal
23 front lines identified by Suriname do not have a common
24 terminal point, something he thinks would seem appropriate and
25 reasonable to do so, and, of course, we agree. We pointed out

15:10:52 1 in our Rejoinder, unless they are parallel lines representing
2 coastal fronts, will, in fact, meet at some point, but where
3 lines representing coastal fronts meet in fact will depend upon
4 the particular coastal configuration, and the relationship of
5 the coasts in question. Whether they meet at the land boundary
6 terminus will depend upon how the coasts are aligned and where
7 the land boundary terminus is located.

8 Now, not wanting to accept the geography as it is,
9 Dr. Smith's solution is to bring the Guyana coastal front
10 landwards. He suggests both coastal fronts meet at Guyana's
11 Point 61, which he described as the land boundary terminus.
12 But the result as far as Guyana's coastal front is concerned is
13 somewhat bizarre. It produces a coastal front line that is, in
14 fact, diagonal to a good part of the coast. Starting inland at
15 Point 61, the line crosses the coast once and then heads out
16 over the water to the next coastal point. We would say that
17 the only thing that can be said for such a line is that it
18 clearly highlights the convexity of the Berbice Headland.

19 And after all of this, what does Guyana do? They do
20 not follow the sinuosities of the coasts for determining the
21 relevant coasts which is the real alternative to coastal
22 fronts. They adopt what Dr. Smith calls controlling point
23 coastal fronts, which consists of joining the base points for
24 the equidistant line. Now, there is no explanation either in
25 Dr. Smith's report or as far as we can see in Guyana's written

15:12:34 1 or oral pleadings to show how this approach is justified in law
2 or whether it has ever been used by a court or a tribunal in
3 maritime delimitation, but it seems to be the preferred
4 approach because as we saw in the Reply--we saw Guyana use it
5 in the Reply, and we saw it again last week when Mr. Reichler
6 showed us his tests of proportionality.

7 So, at the end of the day, the coastal front issue
8 seems to come down to this: Both Guyana and Suriname use
9 coastal fronts to represent the actual coasts. Suriname uses
10 straight-line coastal fronts. Guyana uses base point to base
11 point coastal fronts. Coastal fronts are bad it seems unless
12 they're drawn by Guyana and in accordance with Guyana's
13 preferred method, which means it must be derived from
14 equidistance.

15 Again, the method drives the geography. It's no
16 surprise then we never heard a word from Guyana last week to
17 show any legal justification for its own coastal fronts.

18 Let me turn briefly to coastal length. Suriname's
19 identification of the relevant coasts and the coastal front
20 lines to represent them does have consequences for the lengths
21 of those coasts. Now, the determination of lengths of relevant
22 coasts can have important implications for delimitation. A
23 significant disproportion in the lengths of relevant coasts can
24 be the basis for an adjustment of the line. That was done in
25 the Gulf of Maine case, Libya and Malta, by the Arbitral

15:14:11 1 Tribunal in Newfoundland and Nova Scotia, by the Tribunal in
2 Barbados-Trinidad and Tobago. The length of the coasts may
3 also be relevant when considering proportionality in terms of
4 the relationship between coastal lengths in the areas of
5 maritime space allocated as a result of the delimitation, the
6 idea contemplated in the North Sea cases that we saw in
7 proportionality models produced by Guyana last week.

8 Now, in respect of length of coasts, Guyana has simply
9 measured the length of the coast that faces the area--I'm
10 sorry, the length in respect of coastal lengths, Suriname has
11 measured the coastal front lines. Guyana does not consider
12 that measuring the length of the coasts that face the maritime
13 area to be an appropriate way to determine length of coasts
14 because it says it lacks any legal or logical foundation, as
15 I've said. But doing what Suriname has done is what the law
16 requires. The relevant coasts are the coasts that face the
17 area to be delimited, and it is those coasts which must be
18 measured.

19 The result, as we have shown, is that the lengths of
20 the coasts of Suriname are 140 nautical miles, and the lengths
21 of Guyana's coast is 90 nautical miles. Even if one was to add
22 to this the eastward-facing coast along the Essequibo River to
23 Devonshire Castle Flats, the length of the relevant coasts of
24 Guyana would be 120 nautical miles. Still significantly
25 shorter than Suriname's relevant coasts.

15:15:43 1 Now, I will say no more about coastal length at this
2 stage because I'm going to come back to it in a subsequent
3 presentation when I talk about the question of proportionality.

4 In fact, the differences between the parties on
5 coastal lengths are really a reflection of their differences
6 about coastal fronts. Once you solve the question about
7 coastal fronts and relevant coasts, I think the question of
8 length loses its contentiousness.

9 What I would like to turn to now, Mr. President, is
10 the question of concavities and convexities. That is the
11 question of the actual configuration of the coasts. In the
12 present case, there has been much disagreement focused around
13 the issue of concavities and convexities, although I would
14 suggest a good deal of this discussion has been overblown.
15 Concavities and convexities along coasts of the parties are
16 relevant because of their potential to have an impact on the
17 delimitation method. In our Counter-Memorial, we pointed out
18 that the Guyana coast is characterized by a series of three
19 minor but significant convexities between the Corantijn River
20 and Berbice Rivers, the Berbice Headland, between Berbice and
21 Essequibo, and then a further and more pronounced convexity of
22 the coast at the western extremity of the Essequibo River at
23 Devonshire Castle Flats.

24 On the Suriname side, while both the Hermina Bank and
25 Warappa Bank have are rounded features and characteristics,

15:17:14 1 there is also more prominently concavity between the eastern
2 bank of the Corantijn River and the Coppename River.

3 Now, I mention these concavities and convexities at
4 this stage simply as matters of fact. The consequences that
5 flow from the effect of these convexities will become clear
6 when we look at their effect on a provisional equidistance
7 line. I should mention, nevertheless, that Guyana's colorful
8 portrayal in its Reply of Suriname seeking to morph its coasts
9 into a Germany-type concavity simply misses the point that
10 Suriname is making. It's not that the coast of the Suriname
11 resembles the coast Germany in the North Sea cases, rather it
12 is that the principle of the North Sea cases is relevant. This
13 means that depending upon its location and its impact on
14 delimitation, the existence of a concavity or of a convexity
15 may make a particular method of delimitation inappropriate for
16 achieving the required equitable solution. I'm going to come
17 back to that point when I come to the delimitation methods.

18 Now, here it is appropriate to turn again to Guyana's
19 argument because they have quite a different perception of the
20 geography when it comes to the question of concavity and
21 convexity. And this position is based partly on what Dr. Smith
22 said in his report and partly on what they take Dr. Smith to
23 say, even though he did not say it. What Dr. Smith did say in
24 this area is based, in our view, on a perception of geography
25 that has no basis in the law of maritime delimitation.

15:19:00 1 Now, the beginning of Dr. Smith's error is his view
2 that guidance for maritime delimitation can be provided by
3 viewing the geography of the area as if there were no political
4 boundaries. In paragraph 15 of his report, he said, "To define
5 geographic realities with political borders often leads to
6 incorrect descriptions of an area. One should ignore political
7 boundaries when describing the geography of an area and only
8 use political names for reference." And as a statement in
9 opening a geography 101 class, this makes evident good sense,
10 but as a statement about how geography is to be described for
11 the purposes of maritime boundary delimitation, it's simply
12 wrong.

13 What is being sought in looking at the geography of an
14 area for the purposes of maritime boundary delimitation is an
15 understanding of the geography of the coasts of each of the two
16 states involved, and this is done in order to understand the
17 relationship of the coasts of the two States to each other and
18 the impact the coasts of each party may have on particular
19 methods of delimitation.

20 Now, there is no doubt that there may be some
21 descriptive value in identifying features across boundaries,
22 such as the description by the chamber in the Gulf of Maine
23 case that the Gulf of Maine is a rectangle, and that's how the
24 chamber described the area. But the description had no
25 implications for delimitation, and no importance for selecting

15:20:30 1 a method of delimitation.

2 The danger is that if the geography is described as if
3 there was no land boundary between the parties, the
4 geographical analysis of the coasts of the two parties may
5 become disconnected from any context that is relevant to
6 delimitation. And that, we would submit, Mr. President, is
7 precisely what has happened here, because the erasure of the
8 land boundary between Suriname and Guyana is really at the
9 heart of Dr. Smith's analysis and Guyana's claims about the
10 geography are built on it. It is the basis for what Dr. Smith
11 describes as a long and shallow concavity that extends from the
12 Essequibo River through the Coppename River. A concavity
13 which, as Dr. Smith says, is formed by both coastlines.

14 And this long, shallow concavity idea becomes central
15 to much of Guyana's approach. It's essentially the semi-circle
16 drawn in Guyana's Plate 3 and reproduced here.

17 If you erase the boundaries or the boundary and the
18 coast of Guyana and Suriname form a common long, shallow
19 concavity, then the coasts do not change direction at Corantijn
20 River, as Suriname claims. The Berbice Headland is suppressed.
21 Hermina Bank becomes the convex feature. Then in an even
22 greater act of prestidigitation, Dr. Smith says that all of the
23 base points for the provisional equidistance line on the Guyana
24 side lie within or at the beginning of the concavity. Not only
25 has it erased the Berbice Headland, but he's shown there's no

15:22:18 1 convexity at the Devonshire Castle Flats. This, Mr. President,
2 is hardly dispassionate geographic description or analysis.

3 The consequences that Guyana seeks to draw from the
4 long, shallow concavity shows clearly why for the purposes of
5 the maritime boundary delimitation you cannot ignore the
6 political geography or the land boundary terminus as Dr. Smith
7 appears to advocate. If you put the boundary back and look at
8 the coasts not combined, but the coasts on either side of the
9 boundary, then a different perspective emerges. The coasts do
10 change direction at the mouth of the Corantijn River. The
11 Berbice Headland is obviously convex, and so is the coast of
12 Devonshire Castle Flats. And if one looks at Guyana's coast
13 alone, the long, shallow concavity disappears. If you look at
14 Suriname's coast alone, you see concavity and convexity. You
15 need to combine Guyana's coast with Suriname's coast to create
16 any concavity that involves Guyana's coast.

17 And to be fair to Dr. Smith, he does not say in this
18 is report that Guyana's coast is concave in relation to the
19 coast of Suriname, but Guyana is not so reticent. Indeed, it
20 is quite explicit. It claims that the convexity of Suriname's
21 coast, coupled with the concavity of Guyana's coast--and that's
22 in the Reply at paragraph 315--makes the provisional
23 equidistance line prejudicial to Guyana. In short, Guyana has
24 taken something Dr. Smith said that the coasts of Suriname and
25 Guyana combined form a concavity and turned it into something

15:24:09 1 Dr. Smith did not say--that Guyana's coast, on its own, is
2 concave.

3 One can compare what Guyana is seeking to do again
4 with the geographical configuration in the Gulf of Maine.
5 There is no denying, as the chamber pointed out, that the Gulf
6 of Maine is in the shape of a rectangle, but that rectangle is
7 formed by the coasts of Canada and the United States. If you
8 take away the coast of Canada, you cannot say that the coasts
9 of the United States form a rectangle. So the fact that you
10 can identify a concave area combining the coasts of Suriname
11 and Guyana does not mean that when you remove the coasts of
12 Suriname from the equation, the coasts of Guyana remain
13 concave.

14 So that the semi-circle so boldly depicted by Guyana
15 to represent a concavity essentially shows nothing that is
16 relevant to this case. One just as well might have drawn a
17 semicircle running through the Berbice Headland to Hermina
18 Bank. That would equally tell us nothing that is useful for
19 this case. The configuration of the combined coasts of the
20 party tell us nothing about whether there are concavities or
21 convexities on one side or another. Once the political
22 boundary is inserted, the Guyana coast is seen for what it is:
23 Generally facing northeastwards, as Dr. Smith said, but with a
24 notable convexity, Berbice Headland and another convexity at
25 Devonshire Castle Flats.

15:25:42 1 Moreover, the concavity on the Suriname side between
2 the Corantijn River and the Coppename River remains. And there
3 is no need to draw a semi-circle on a map to show this.

4 Mr. President, I'm not sure when you wish to take a
5 break. I am at a point where I would be going on a little
6 longer in the next section, so if you felt it appropriate to
7 take the coffee break now, we could do it, or I can continue,
8 as you wish.

9 PRESIDENT NELSON: Thank you, Professor McRae.

10 Possibly we can take a break now and resume at quarter
11 to four. Thank you.

12 (Brief recess.)

13 PRESIDENT NELSON: Professor McRae, you may continue.

14 PROFESSOR McRAE: Thank you, Mr. President.

15 Mr. President and Members of the Tribunal, I would now
16 like to turn to the issue of coastal projection, and looking at
17 the approaches of Suriname and Guyana in this respect, it seems
18 to me we are talking about two different things. When Suriname
19 speaks of "coastal projection," it is referring to the way in
20 which the coasts of the two States face into the area to be
21 delimited. I pointed out earlier the concept is easy to
22 understand in the case of opposite States since their coasts
23 both face each other and face or project into the area to be
24 delimited, and Suriname and Guyana, of course, are adjacent
25 States, and thus the way in which the opposite--the way in

15:47:18 1 which these States face the area to be delimited is much more
2 complicated.

3 Where the coasts of the State meet at an angle, as
4 they do here, certain portions of the coasts of both states
5 face into the area to be delimited, and hence can be understood
6 as projecting into that area, and this is what the courts and
7 tribunals commonly refer to when they talk about the coasts of
8 adjacent states facing into the area to be delimited. By
9 contrast, in our view, Guyana seems to be talking about
10 something else. While we talk about coastal projection in the
11 relevant areas, Guyana speaks of appurtenant and relevant
12 maritime areas, based on the idea that the area in dispute is
13 within 200 miles of the coast of both parties.

14 Guyana rejects what it describes as Suriname's
15 projecting coastal facades in only one direction. In its
16 views, coasts should project in all seaward directions to
17 encompass all of the appurtenant maritime space within
18 200 miles of the coastline, and we saw this discussed in the
19 detail in the discussion of proportionality last week.

20 Guyana puts the issue in terms of a difference between
21 radial and frontal or directional projection. Now, the debate
22 between the advocates of radial projection and frontal
23 projection have been played out in the cases at least since the
24 Gulf of Maine case, but in many respects it's a somewhat
25 sterile debate and, as articulated by Guyana, creates more

15:48:52 1 opposition, or creates an opposition that, in our view, is more
2 imaginary than real. There is no doubt that for the purpose of
3 entitlement, coasts can be understood as projecting in a radial
4 fashion. The depiction of the outer limit on the 200-mile
5 zones by arcs and circles is simply evidence of this, and an
6 island is an obvious case, as Professor Oxman mentioned this
7 morning, where the entitlement of the State radiates out in all
8 directions.

9 But entitlement to a zone and delimitation with a
10 neighboring State are quite different operations. In
11 delimitation between an island State facing a mainland
12 State--Malta and Libya, for example--some element of radial
13 projection is involved in depicting the projection of the
14 coasts of both states. But in the case of adjacent states, the
15 idea of radial projection is at best just not helpful, or at
16 worst it's simply a covert way of reinforcing equidistance as
17 an obligatory delimitation method, and it was with this
18 objective--that is, promoting equidistance--that radial
19 projection was at the forefront of the Canadian case in the
20 Gulf of Maine case. Canada demonstrated in its oral pleadings
21 with not, I might say, a great deal of subtlety, that the
22 intersection of the competing radial projections from the coast
23 of Canada and the United States formed, lo and behold, an
24 equidistant line, and the Chamber, to no one's surprise, was
25 not taken in by this. It saw that radial projection was linked

15:50:37 1 to distance from the coast, and that's all that was being said,
2 was that distance implied equidistance as a solution. It was
3 just another attempt to make equidistance a binding rule of law
4 which is what we heard being advocated last week.

5 But viewing the coasts as projecting radially simply
6 gives no guidance on how to seek an equitable solution, and
7 that leads to the central point about radial projection in the
8 context of maritime delimitation certainly between adjacent
9 states. It simply is not helpful. The objective in
10 delimitation is not to identify all of the areas that both
11 parties can potentially claim either in the abstract or given
12 the presence of the other. That's the issue of entitlement.
13 Rather, the objective is to identify the area that is in
14 dispute between the parties because the projections of their
15 coastlines converge into the same maritime area and overlap; or
16 to put it another way, where the coastlines abut into the same
17 maritime area.

18 Now, focusing on the area in front of the coasts where
19 the coastal projections converge and overlap, and where the
20 claimed boundaries are located, allows Tribunals to assess the
21 impact of proposed boundaries, to determine the areas that are
22 allocated and consider questions of proportionality. Adding
23 areas on either side of the coastal projection, which is really
24 what radial projection does, does nothing to facilitate
25 deciding the consequences of delimitation, and that's why

15:52:10 1 tribunals have invariably dealt with coastal projection in
2 frontal or directional terms.

3 Now, let me be clear: Directional or frontal
4 projection is not a denial of radial projection. It's simply a
5 way of confining coastal projection to the area that has to be
6 delimited so that it becomes a useful way of looking at the
7 delimitation process. So, in the Gulf of Maine case, the
8 Chamber spoke of the division of areas of convergence and
9 overlapping into the maritime projections of the coastline, the
10 areas of convergence and overlap of the maritime projections of
11 the coastline. It ignored the Atlantic-facing coastlines of
12 Canada and the United States because their projections did not
13 converge and overlap. Under a radial projection theory, the
14 coastlines on either side of Canada and the United States, as
15 we saw in that radial projection diagram, would have converged
16 and overlapped, but the Chamber was clearly thinking about
17 frontal or projectional projection.

18 And perhaps the clearest indication of directional or
19 frontal projection is found in the decision of the Arbitral
20 Tribunal in Canada and France; that's the St. Pierre/Miquelon
21 arbitration, and this was the illustration we saw before during
22 Professor Oxman's address. The boundary accorded to the
23 islands of St. Pierre and Miquelon was based directly on the
24 notion that both Newfoundland and the islands of St.
25 Pierre/Miquelon projected southwards, and that was the reason

15:53:43 1 for that long, thin strip of maritime projection that resulted
2 in the boundary area. The coasts to the east of Newfoundland
3 out into the Atlantic, although they might project radially
4 into the area is simply not relevant.

5 The same idea is found in other cases as well. In
6 Nigeria and Cameroon, the coastline beyond the Debundsha Point
7 was regarded by the court as facing the Island of Bioko and not
8 facing Nigeria; hence, it would be regarded as irrelevant to
9 the area of delimitation. Once again, the perception of
10 coastal projection is frontal, not radial.

11 Now, as I have said, radial projection is simply not
12 helpful. It does not provide any guidance, and it simply
13 distracts tribunals by including areas that are a long way away
14 from the area of delimitation. In short, the relevant coasts
15 is identified by Suriname project towards the area to be
16 delimited, and this has significance for the finding the
17 relevant area to which I'm going to return, and it will also
18 become important when we look later on at the question of
19 proportionality.

20 Let me turn, then, to the relevant area, which is the
21 final thing I'm going to deal with in the context of geography
22 before I move on to method. The identification of a relevant
23 area is really the final process after analyzing relevant
24 coasts and seeing how the coasts that we represented and how
25 they project, and the purpose of defining a relevant area is to

15:55:12 1 define an area in which the effects of any particular
2 delimitation method and the line that results from the
3 application of the method can all be assessed. Now, like
4 defining a relevant coast, defining a relevant area is not a
5 matter on which there needs to be scientific exactitude. It's
6 neither necessary nor useful.

7 And in Tunisia-Libya, the Court rejected the idea that
8 the whole of the continental shelf appertaining to the parties
9 could be considered relevant to the delimitation. In paragraph
10 74 of the judgment, it said: "The only areas which can be
11 relevant for the determination of the claims of Libya and
12 Tunisia to the continental shelf in front of their respective
13 coasts are those that can be considered lying either off the
14 Tunisian or off the Libyan coasts. These areas formed together
15 the area which is relevant to the decision of the dispute."

16 What the Court was saying was that it was the area of
17 overlap between the coastal projections of the two States that
18 constituted the relevant area, and it's for this reason that
19 the areas identified by Guyana as the appurtenant and relevant
20 maritime areas have no basis in law, and they really do not
21 offer any guidance to the Tribunal in the task of delimitation.

22 Now, counsel for Guyana spent some considerable time
23 on Saturday morning explaining the appurtenant and relevant
24 maritime areas, and it was a careful explanation of what seemed
25 a fairly complicated process. Although the complication was

15:56:41 1 probably unnecessary, because, in essence, what Guyana has done
2 is draw 200-nautical mile arcs from the 1936 Point. The area
3 enclosed is 200 miles from the coasts of both states and,
4 according to Guyana, it is the area that each State could claim
5 in the absence of the other. This is the area that Guyana
6 regards as relevant to this delimitation, and it was the area
7 for testing proportionality.

8 But in our view, Guyana's concept of relevance seems
9 dislocated from any reality. It would appear that the approach
10 is based on the reference to potential overlapping entitlements
11 in the Jan Mayen case, where they talked about the potential
12 overlapping entitlements to 200-mile zones of Norway and
13 Denmark, but there the overlap was between opposite coasts.
14 The areas were in front of the relevant coasts of the two
15 States. On the other hand, here, Guyana's area relevant to
16 delimitation has no relationship to the relevant coasts.

17 Guyana does claim there's a relationship between its
18 appurtenant relevant maritime areas in its relevant coasts
19 because it refers to the projections seaward to 200 nautical
20 miles by means of an envelope of arcs, so it does sound as if
21 you are using a radial theory, it sounds like it's related to
22 the relevant coastline. But as I have mentioned, essentially
23 what it has done is draw a 200-mile arc from the 1936 Point
24 which has no relationship to the relevant coastlines or place
25 of intersection.

15:58:20 1 In a sense what is happening here is a reverse
2 engineering of a relationship between relevant coasts and
3 appurtenant and relevant maritime areas by invoking a radial
4 projection theory. That area is seen to be related to those
5 relevant coasts if you have a radial theory that every point in
6 the coast radiates out in every direction, but that simply
7 demonstrates that radial projection is not very helpful. How
8 can the maritime area in front of Georgetown, Guyana, be
9 usefully perceived as being within the coastal projection of
10 Suriname? Well, that's what the radial projection theory
11 suggests.

12 We would suggest that this lack of any coherent
13 intellectual connection between the Guyana's area relevant to
14 the delimitation in their relevant coasts simply provides no
15 guidance for the purposes of delimitation. It's simply of no
16 help to the process of delimiting the maritime boundary. It
17 encourages the kind of argument that we have heard comparing
18 absolute areas, treating delimitation as if it was a parceling
19 up of the offshore areas and deciding who gets more or less.
20 But as the Court said in the North Sea case, delimitation is
21 not allocation.

22 In our view, Mr. President, Guyana's attempt to
23 broaden the relevant area has to be rejected. It really is
24 simply an attempt to broaden the area to support the
25 proportionality claims, and in the later presentation I will

15:59:44 1 point out how the proportionality claims of Guyana cannot be
2 supported. In our view, the relevant area in this case is the
3 area that lies in front of the relevant coasts of the parties,
4 and within that relevant area the claims of the parties are to
5 be found. The area of overlapping claims is within that
6 relevant area, although it's not necessarily co-extensive with
7 it. Relevant area is somewhat broader concept.

8 On the eastern side, Guyana's 34-degree line lies
9 towards the outer limits of the relevant area, and on the
10 western side the relevant area extends to the 0 degree north
11 line. I will point out in subsequent presentation this is
12 going to have some importance when we turn to questions of
13 proportionality.

14 Mr. President, with your permission, I would like to
15 now turn to the question of the method of delimitation. I
16 would look first to the two methods that have been discussed by
17 the parties in this case--the equidistance method and the angle
18 bisector method--and then I will consider the provisional
19 equidistant line in this case and show why such a line does not
20 produce an equitable solution. I will then show why the
21 appropriate method in this case, in our view, is an angle
22 bisector. And if I don't go through all of that, I will deal
23 with the latter part of that in my next presentation, but let's
24 see.

25 At the outset, I would like to emphasize what

16:01:14 1 Professor Oxman said this morning about delimitation methods.
2 One thing on which the law of delimitation is clear is that
3 there is no obligation to choose any particular method. The
4 choice of the appropriate method is to be made in the light of
5 the relevant circumstances, and those circumstances generally
6 are geographical circumstances.

7 The equidistance method, let me deal with that first.
8 Now, there is no doubt the equidistance method has a long
9 pedigree in maritime delimitation. Its attraction is its
10 simplicity. You can always draw an equidistance line by
11 identifying the base points along the coasts of the parties and
12 then constructing a line that every point is equidistance from
13 the closest base points on the coasts of each party. And where
14 the coasts are opposite, the equidistant or median line seems
15 to have an inherent logic. A median line will track the actual
16 configurations of the opposing coasts.

17 But it was recognized at the outset, as Professor
18 Oxman mentioned this morning, that particular coastal features
19 may have an effect on the line, and that effect may be
20 considerable. Islands lying off the coast, peninsulas,
21 promontories have always been seen as features that potentially
22 have an effect on a line based on equidistance, but undermines
23 the basic notion of equal division that equidistance in its
24 purest form espouses.

25 But it was also recognized from the North Sea cases

16:02:54 1 onwards that the disadvantages of equidistance were potentially
2 greater in the case of adjacent States than in the case of
3 opposite States. And the reason for the distinction between
4 opposite and adjacent States was articulated by the Court in
5 Libya-Malta, and it said in the case of adjacent States--and
6 this is paragraph 70 of the judgment, the Court said: "Any
7 distorting adjacent coast--any distorting effect might well
8 extend and increase throughout the entire course of the
9 boundary." In the case of opposite States, the Court said,
10 "the influence of one feature is normally quickly succeeded and
11 corrected by the influence of another as the course of the line
12 proceeds.

13 Now, what the Court in both the North Sea cases and in
14 the Tunisia-Libya case was saying is that while an equidistance
15 line can be self-correcting in the case of opposite States, it
16 cannot be self-correcting in the case of adjacent States.

17 Now, let me illustrate this point. If there are
18 opposite coasts, a promontory on one coast will alter the
19 course of the line, but after passing the promontory, the line
20 resumes its median or equidistant character. If, however, the
21 same coasts were in relation to adjacency rather than
22 oppositeness, the impact of the promontory would continue
23 throughout the full course of the line.

24 What is clear from this illustration is that the
25 precise impact of a particular feature on an equidistant line

16:04:42 1 will depend upon its location, if I may borrow that phrase from
2 my colleague, Mr. Reichler, and orientation. In the case of
3 adjacent States, the further the feature is away from the land
4 boundary terminus, the less the impact will be. What it also
5 shows in the case of adjacent States, the feature that affects
6 the course of the line first has the lasting effect on the
7 line. Subsequent features have an effect, but it is an effect
8 on a line already determined by the first feature. The result
9 is akin to what economists sometimes refer to as "path
10 dependency."

11 So, coastal features that are adjacent to the land
12 boundary terminus will have the greatest potential for
13 affecting equidistance line drawn between adjacent States, and
14 that proposition was made clear by counsel for Germany,
15 Professor Jaenicke, in his oral argument to the Court in the
16 North Sea cases. He produced a diagram for the Court which has
17 now probably become famous, which we produce here. Professor
18 Jaenicke was showing what he called the "diversion effect;"
19 that is to say, if the headland close to the boundary extended
20 one kilometer from the coast, the impact at a hundred
21 kilometers was a distance of more than 10 kilometers. And if
22 the headland protruded five kilometers, then the distance of
23 the equidistance line that was deflected was 30 kilometers.
24 This illustrated the basic point that Professor Jaenicke was
25 making. The further you go into the sea, he said, the more the

16:06:36 1 boundary is diverted from the coast and the more important the
2 more area is included in this diversion effect.

3 Now, this diversion effect, or the Jaenicke effect, is
4 well-known. Indeed, it was taken up and endorsed by Guyana's
5 expert, Dr. Smith, in an article he wrote in 1989, and we
6 reproduced that article in our Annex, the Rejoinder Volume II,
7 S.R. 32. And Dr. Smith said, "As the headland of one State
8 protrudes further seaward, the equidistant line diverts towards
9 or encroaches upon the neighboring State. This diversion or
10 encroachment decreases the further the line extends."

11 Professor Jaenicke showed the diversion effect when
12 coasts were adjacent in a straight line, but the same
13 consequence occurs when coasts are aligned at an angle. A
14 headland near the coast of one party will still push the line
15 across the coast of the other party.

16 Now, diversion is a fact. What is the problem with
17 it? Well, this is something on which Dr. Smith did not make a
18 mistake. Diversion, he says, is encroachment. The problem
19 with alignment is diverted. He says it encroaches or cuts off
20 the coastal projection of the neighboring State, and Professor
21 Oxman illustrated that cut-off effect in his presentation this
22 morning.

23 Right from the North Sea cases where the terminology
24 of cut-off was adopted, courts and tribunals have seen
25 encroachment or cut-off as a fact that indicates a particular

16:08:14 1 method produces an inequitable result. I'm going to come back
2 to the Jaenicke effect and show how it is to be applied in the
3 context of this case, and I also show how at that time how
4 Mr. Reichler's very ingenious attempt, I must say, to turn the
5 Jaenicke effect on its head, like the emperor can be readily
6 seen to have no clothes.

7 But let me turn to the provisional equidistant line
8 and the construction of that line. As has been mentioned
9 several times, the common practice we recognize in our
10 pleadings, the common practice emerging among courts and
11 tribunals is to draw a provisional equidistant line in order to
12 provide a basis for assessing the equities of a particular
13 delimitation; but in doing this, it must be clear that no
14 particular weight is to be attached to equidistance as a
15 method. The fact that an equidistant line can be drawn--and
16 you can always draw an equidistant line--simply says nothing
17 about what method ultimately is appropriate. There is no
18 presumption in favor of equidistance, nor any obligation to
19 show there were special circumstances as some used to argue
20 existed under Article 6 of the 1958 Convention on the
21 Continental Shelf.

22 It's for this reason that the repeated emphasis of
23 counsel for Guyana on the fact that the provisional equidistant
24 lines drawn by the parties were, in many respects, the same was
25 surprising. Unless there is some contention over particular

16:09:44 1 base points, skilled hydrographers will always draw an
2 equidistant line in the same way, but nothing follows from
3 this. At times it seemed as if counsel for Guyana was
4 suggesting that since the parties had drawn almost the same or
5 almost identical provisional equidistance lines, they had
6 somehow agreed upon equidistance as the appropriate line for
7 the boundary, as if the fact that one can draw an equidistant
8 line means that they must use equidistance to draw their
9 boundary. As every first-year student of philosophy learns,
10 the is does not imply the ought. The fact that you can draw an
11 equidistant line does not imply that you must adopt this
12 equidistant method.

13 What also seems to be overlooked in the arguments of
14 counsel for Guyana last week is that the drawing of a
15 provisional equidistant line is a notional exercise. It
16 simply, as was said in Barbados and Trinidad and Tobago,
17 provides a hypothesis. It commits no one to the use of the
18 equidistance method. The fact that Suriname has drawn a
19 provisional equidistant line in this case does not commit
20 Suriname to the use of the equidistant method, nor is there
21 anything untoward in Suriname concluding that, in the light of
22 the particular geographical circumstances, a different method
23 is warranted. There was simply no foundation for Guyana's view
24 that having drawn a provisional equidistant line Suriname
25 somehow has become entrapped by equidistance and cannot propose

16:11:20 1 some alternative method.

2 Now, let me turn to the actual construction of the
3 provisional equidistant line, which as I said is relatively
4 uncontested between the parties, and my colleague,
5 Mr. Reichler, spent considerable amount of time on the detail
6 of the base points, and I won't go over that again. I would
7 emphasize that the equidistant line as constructed by Suriname
8 is composed of 32 segments all derived from the relationship of
9 particular coastal features that have affected the course of
10 the line. Those segments can be grouped into three broad
11 sections: The first section runs roughly on a bearing of 28
12 degrees and is 112 nautical miles long; the second segment,
13 which has an overall bearing of about 13 degrees, is 82 miles
14 long, again nautical miles; and the third segment which runs on
15 a bearing of 270 degrees is 24 nautical miles long.

16 Now, there are nevertheless two matters on which there
17 is disagreement between the parties. First, there is the
18 question of the starting point. We made it clear in our
19 written pleadings, and Professor Oxman pointed out this
20 morning, the correct starting point for the maritime boundary
21 is the intersection of the 10-degree line with the low
22 watermark. By contrast, Guyana has located a point on the
23 coast east of 1936 Point, point G1, which we say is a line that
24 has no basis in law, conduct or anything else. It just happens
25 to be nearby. And we would suggest that the fact that this is

16:13:04 1 a contrived point is evident by the way Guyana then goes about
2 constructing its provisional equidistance line because G1 to
3 the first equidistant point is simply a straight line, not an
4 equidistant line.

5 But at this point I would like to comment on my
6 colleague Mr. Reichler's lengthy statement about the use by
7 Suriname of S1 as a base point for the drawing of a provisional
8 equidistant line. S1, he said, is on Guyana's territory, and
9 thus it cannot be used as a base point by Suriname. If
10 Suriname has sovereignty over the river water only, then his
11 argument is since Suriname has not drawn a closing line across
12 the river, it is not entitled to a base point at S1.

13 Mr. President, once again, in our view, Guyana has
14 confused the hypothetical exercise of drawing a provisional
15 equidistant line with the real exercise of delimitation of a
16 boundary under the equidistance method. If Suriname had
17 planned to adopt the equidistance method for drawing its
18 boundary with Guyana, it would have drawn a closing line across
19 the mouth of the river and drawn its base points for an
20 equidistance line accordingly. But Suriname takes the view
21 that the boundaries should be drawn on a different basis, one
22 for which there is no need to draw a closing line across the
23 river, and so it has not done so.

24 But this in no way prevents Suriname from drawing a
25 provisional equidistant line on the basis on which a real line

16:14:40 1 would be drawn if we were out of the hypothesis of drawing
2 provisional equidistance lines and into the reality of drawing
3 a real equidistant line. In any event, as we pointed out in
4 our Counter-Memorial, once the land boundary terminus has been
5 established, Suriname will draw a closing line across the mouth
6 of the Corantijn River, so Guyana's objections to the Suriname
7 base point at S1 is simply irrelevant.

8 The second difference between the parties in the
9 drawing of a provisional equidistant line is the use of Vissers
10 Bank as a base point. Now, Guyana objects to the use of
11 Vissers Bank as a base point on the ground that it appears on a
12 chart that was published in June 2005, Updated Chart NL2218,
13 after the proceedings were commenced, and that it did not
14 appear on an earlier version of that chart. Indeed, in order
15 to disprove the alleged unreliability, or in order to prove the
16 alleged unreliability of chart 2218, Guyana enlisted the
17 support of one Dr. Thomas D. Rabenhorst who states in his
18 report in Annex 2 of Guyana's Reply that relevant nautical
19 charting and satellite imagery did not support the location of
20 the base point on Vissers Bank.

21 Now, Guyana's strenuous efforts to disprove a base
22 point on Vissers Bank are misplaced and ultimately without any
23 point. The base points for the measurement for the provisional
24 equidistant line are to be found along the baseline for the
25 measurement of the territorial sea. Article 6 of the 1982

16:16:29 1 Convention provides that the normal baseline for measuring the
2 breadth of the territorial sea is the low-water line along the
3 coast as marked on large-scale charts officially recognized by
4 the coastal state.

5 In our view, Article 5 is clear. The base line for
6 the territorial sea of Suriname is the low-water line along the
7 coast of Suriname as marked on large-scale charts recognized by
8 the coastal state, which is Suriname. Updated chart 2218 is a
9 large-scale chart recognized by Suriname, and thus the
10 low-water line identified in that chart is the baseline for
11 measuring the territorial sea, and that includes the low-water
12 line on Vissers Bank.

13 But for some reason, Guyana seems to think that it is
14 the coastal state in respect of Suriname's territorial sea, and
15 it is Guyana that must recognize the charts on which the
16 low-water line along the Suriname coast is marked. In its
17 Reply, it says that it prefers U.S. NIMA charts, gives the
18 number, as if somehow Guyana has the right to veto the
19 large-scale charts recognized by Suriname. Nothing in Article
20 5 supports that interpretation. Guyana is perfectly entitled
21 to the large-scale charts for the choice of determining the
22 low-water mark for its own territorial sea. It has chosen U.S.
23 NIMA charts, and Suriname has no objection to this; but
24 equally, Suriname is entitled to choose the larger scale charts
25 for determining its own territorial sea, and Guyana has no

16:18:12 1 basis for complaint.

2 As for Guyana's claims that updated chart 2218 was
3 somehow manufactured for the purposes of this case, we pointed
4 out in our Rejoinder that such a claim is simply preposterous.
5 Nautical charts are not produced instantly. As a memorandum
6 from Captain de Hahn of the Hydrographic Office to the Royal
7 Netherlands Navy points out--and it's found the Annex to our
8 Rejoinder SR43--the origins of the chart date back to 2001, and
9 the cartographic work was based on Hydrographic surveys
10 undertaken in 2002, 2003, and 2004. The conditions under which
11 the charts were produced is set out in Captain de Hahn's
12 memorandum, and they lay to rest the allegations of Guyana of
13 any impropriety.

14 Here I would like to point out a small error that
15 crept into the presentation by Mr. Reichler last week, when he
16 referred to and quoted from someone he referred to as the
17 hydrographer at the Suriname Ministry of Defense. The
18 quotation was, in fact, from the memorandum of Captain de Hahn
19 who was with the Hydrographic Office of the Royal Netherlands
20 Navy. I am sure the error was inadvertent, but I thought it
21 was appropriate to set the record straight.

22 As for the claim of Thomas Rabenhorst that he could
23 not find the low-water line on Vissers Bank when he looked at
24 satellite imagery, this really has no relevance. Article 5
25 refers to charts officially recognized by the coastal State for

16:19:44 1 a very good reason: Charts provide certainty and stability.
2 They locate low-water lines without each time having to choose
3 between the competing views of cartographers. It would
4 undermine the stability and certainty that Article 5 provides,
5 if officially recognized charts could be challenged by those
6 who claim that they have more recent satellite imagery or
7 better resolution or some preferred satellite imagery. So,
8 until a new chart is prepared, and recognized by Suriname as
9 the coastal State, updated chart 2218 remains the basis for
10 determining the low-water line in the area of Vissers Bank.

11 But in any event, this whole Vissers Bank issue is a
12 tempest in a teapot. Guyana itself claims that it makes no
13 material difference to the construction of the provisional
14 equidistance line, or as we pointed out it was a small
15 difference as noted in the presentation last week. The last
16 kilometer of the provisional equidistance line is effective for
17 the location of the base point on Vissers Bank. Guyana's main
18 concern of the Vissers Bank base point arose out of its
19 mistaken viewpoint that equidistant base points provide the
20 basis for determining the relevant coasts, but as we pointed
21 out, on that they are simply wrong in law.

22 Let me turn now, Mr. President, to an assessment of
23 the provisional equidistance line. Now, if we turn to the
24 provisional equidistance line as constructed by Suriname, one
25 thing becomes obvious: It is not a straight line. The

16:21:22 1 provisional equidistance line consists of a series of segments
2 adjusting and changing in response to the base points on the
3 coast. And if we look at the features, the coastal features
4 that principally influence the course of the provisional
5 equidistance line, we see that on the Guyana side the Berbice
6 Headland and Devonshire Castle Flats. The former, the Berbice
7 Headland controls the line out to a distance of 172 nautical
8 miles, or 82 percent of its length. The base points on
9 Devonshire Castle Flats have an impact on approximately the
10 last 24 nautical miles.

11 On the Suriname side, the features having the greatest
12 influence on the provisional equidistance line are first Turtle
13 Bank, and then the coast further to the east of Corantijn
14 River, and then further on Hermina Bank. The base points on
15 Hermina Bank control the line for distance of about 90 nautical
16 miles. And if we look at the provisional equidistance line
17 more closely, we see what is happening in each segment. The
18 first section of the line is governed by the Berbice Headland
19 on Guyana's side while on the Suriname's side the coast starts
20 to recede, and the combination of the protruding coast of
21 Guyana and the receding coast of Suriname is to pull the line
22 back towards Suriname. The line runs at an angle of about 28
23 degrees which is roughly perpendicular to Guyana's coastal
24 front.

25 As a result of being pulled across Suriname, the line

16:23:14 1 cuts across the coastal front, or cuts in front of the coast of
2 Suriname, and that's what we have called "cut-off" or
3 "encroachment" by the provisional equidistant line.

4 Now, as the provisional equidistant line extends
5 across in front of the Suriname coast, it brings into effect
6 Hermina Bank, so for a distance of 58 nautical miles, the line
7 is governed by the protrusion on the east headland on the
8 Guyana side and Hermina Bank on the Suriname side. But
9 eventually the convexity of Devonshire Castle Flats comes into
10 play and pushes the provisional equidistant line back towards
11 Suriname's side, as I mentioned, for the last 24 nautical miles
12 out to the 200-mile limit.

13 Now, what this shows is that a provisional equidistant
14 line is pushed and pulled by particular coastal features.
15 Primarily, the Berbice Headland, but also Hermina Bank, and
16 then latterly Devonshire Castle Flats. And this illustrates in
17 a very fundamental way the properties of equidistance, just as
18 Professor Jaenicke did back in 1969. The Berbice Headland is a
19 classic example of the Jaenicke effect. It is a headland close
20 in besides the terminus of the land boundary at the
21 intersection of the 10-degree line with the low-water mark.

22 And so its influence, because of that location right
23 beside the land boundary terminus, its influence on the drawing
24 of a provisional equidistance line is greater than the
25 influence of any other feature. Hermina Bank is much further

16:25:18 1 away from the land boundary terminus, and so its influence is
2 less. Indeed, the influence of Hermina Bank is in large part
3 the consequence of the Berbice Headland pushing the line
4 towards it. And finally, Devonshire Castle Flats is the
5 furthest away from the land boundary terminus, and so its
6 influence on the line is the least.

7 Now, my colleague Mr. Reichler tried to rebut much of
8 what I have been saying last week, and he sought to show that
9 there was no Jaenicke effect at Berbice, but that there was a
10 Jaenicke effect at Hermina Bank. Now, I want to come to that,
11 but before doing so, I want to look at what Guyana's expert
12 Dr. Smith said about the Berbice Headland.

13 Well, when we return to Dr. Smith's report, we find
14 that what Dr. Smith does not say resonates much more than what
15 he says. He brushes off the Suriname claim that the first
16 section of an equidistance line cuts off its coastal front with
17 the terse statement "the real geography present does not
18 justify these assertions." That was in his report at paragraph
19 34. But he also says in a somewhat breezy manner, almost as an
20 aside, in paragraph 32 that the line looks to be dividing in a
21 pretty fair manner the maritime jurisdiction that is projecting
22 from both coastlines.

23 But Dr. Smith's perception of fairness seems to stop
24 when it comes to Hermina Bank, and he gives close attention in
25 his report to Hermina Bank. He points out that three coastal

16:27:07 1 points closely situated to each other on the convex Hermina
2 Bank influence about 91 miles at the line. He says that the
3 effect is to skew the equidistance line in Suriname's favor,
4 and his overall conclusion is that this is a disadvantage to
5 Guyana.

6 Now, the Hermina Bank is convex in relation to the
7 recessed Suriname coast to its west is not in dispute. That it
8 has an impact on the provisional equidistant line is common
9 ground between the parties. Now, whether that results in a
10 disadvantage to Guyana is a matter to be decided on the
11 applicable law, and it's not a matter on which Dr. Smith is
12 either competent nor entitled to express an opinion.

13 But although a good part of what Dr. Smith says about
14 Hermina Bank is actually unexceptional, what is puzzling is
15 that he is so silent about the Berbice Headland. Nowhere in
16 his report is there any serious analysis of the impact of the
17 Berbice Headland on a provisional equidistant line. Yet, the
18 maps that are attached to Dr. Smith's report show unequivocally
19 that the Berbice Headland is convex and that the coast to the
20 east of Turtle Bank on the Suriname side is recessed. As a
21 result of complex convexity on the Suriname side, there is a
22 pronounced effect on the course of the equidistance line. As I
23 said, it is drawn across the coastal front of Suriname.

24 So, how can Dr. Smith say, as he did in his
25 examination-in-chief on Monday, that there was geographic

16:29:02 1 parity here? That's in the transcript of 11th of December,
2 page 481. Now, this lends a new and quite unprecedented
3 meaning to the term "parity."

4 Now, in order to diminish the effect of the Berbice
5 Headland, counsel for Guyana claimed last week that a cluster
6 of base points do not matter, and I think Dr. Smith said
7 something similar on Monday, but clusters do matter. A cluster
8 of base points on a coastal feature indicates that the feature
9 is having a greater effect on an equidistant line than the
10 adjacent coast where there is no base point. And while a
11 single base point can have the same effect, the fact that it is
12 a cluster does not diminish its effect. A cluster actually
13 shows more of the shape of the feature. It shows that it's
14 rounded, but it does not diminish its effect on the provisional
15 equidistant line. And when you have as here a cluster of 16 of
16 the 19 base points for Guyana for the drawing of a provisional
17 equidistant line, 16 of the 19 base points are at the Berbice
18 Headland, that is certainly telling you that this feature is
19 having much more effect on the equidistant line than any other
20 feature on the Guyana coast.

21 And Dr. Smith made much of the fact in his report that
22 the base points on Hermina Bank influence over 90 miles--I
23 think he said 91 miles--of the provisional equidistance line.
24 But the base points on the Berbice Headland dictate the
25 direction of 172 miles of the provisional equidistance line.

16:31:00 1 No mention of that in Dr. Smith's report. He could have
2 calculated that himself, although we are not quite sure of that
3 now in the light of earlier in the week, but the distances on
4 the right-hand column of his report gave the information to
5 calculate that 172 miles.

6 Nevertheless, according to Dr. Smith, the shorter
7 portion of the provisional equidistance line that is influenced
8 by Hermina Bank is skewed in Suriname's favor and disadvantages
9 Guyana, but the longer portion of the equidistant line that is
10 influenced by the convex Berbice Headland is not skewed at all,
11 and there is no disadvantages to Suriname. In Dr. Smith's own
12 words, it's pretty fair. Well, we are not exactly sure what
13 Dr. Smith means by "pretty fair," but we suspect it's not the
14 same as what others might mean.

15 What he said was that the first segment divides the
16 maritime jurisdiction as projecting from both coastlines in a
17 pretty fair manner. He rejected the idea there was any
18 cut-off. But if you look at what the line does, it clearly
19 runs across in front of the coast of Suriname in a way that it
20 simply does not do in the case of the coast of Guyana.

21 So, how could Dr. Smith say there is no cut-off there?
22 How could he say it was pretty fair? We would suggest that the
23 ignoring of the obvious in relation to the Berbice Headland
24 makes Dr. Smith's analysis of the Hermina Bank in the second
25 and third section of the line even more suspect. And his

16:32:45 1 failure to discuss the Berbice Headland is even more perplexing
2 when it is remembered that in his other writings he has
3 discussed the very problem with an equidistant line that the
4 Berbice Headland displays. As I have mentioned, it was
5 Professor Jaenicke who as counsel for Germany pointed out the
6 impact of a headland in the boundary, the impact on the coast
7 of one State on the direction of the equidistance line.

8 Professor Jaenicke was talking about the impact of headland out
9 as far as a hundred kilometers, or 60 miles, from the coast.

10 It was Dr. Smith who, writing in 1989, took this
11 further. In commenting on the Jaenicke graph, the Tribunal
12 will recall he said in his report, as the headland--sorry, in
13 his article--and I quoted this earlier--"As the headland of one
14 State protrudes further seaward, the equidistant line diverts
15 towards or encroaches upon the neighboring State." And he
16 illustrated this, the extent of this effect he quoted from the
17 U.S. Memorial in the Gulf of Maine, that a deviation of only
18 five kilometers in the line at a distance of five kilometers
19 from the coast turns into a deviation of 81 kilometers, or 44
20 nautical miles, at a distance of 200 nautical miles from the
21 coast.

22 He adapted in his article the diagram of the United
23 States pleadings. What we are showing is the diagram that was
24 used in the United States pleadings, but he adapted that
25 article from the diagram from the United States pleadings that

16:34:27 1 demonstrates this. In short, what Dr. Smith did in the graph
2 in his article was demonstrate the Jaenicke effect not just to
3 60 miles, but out to 200 miles.

4 So, what are to make of all of this? Dr. Smith as a
5 scholar finds that if a provisional equidistant line is drawn
6 in circumstance where is there is a headland near the land
7 boundary terminus between two States, the result is
8 encroachment or cut-off. Some 15 years later, Dr. Smith as
9 expert for Guyana facing the same geographical configuration,
10 ignores the impact of the headland on the Guyana coast and the
11 provisional equidistant line and says there is no cut-off. At
12 the same time, he finds the feature Hermina Bank, which is much
13 further from the land boundary terminus and whose impact on the
14 equidistant line is not as extensive as the Berbice Headland,
15 but this time he finds that the effect is that the equidistant
16 line is skewed to the disadvantage of Guyana. This time he
17 finds encroachment or cut-off. Mr. President, the
18 contradiction is patent, and it speaks for itself.

19 Mr. President, let me turn to Mr. Reichler's claim
20 last week that there is, in fact, no Jaenicke effect at the
21 Berbice Headland.

22 Professor Jaenicke's diagram, he said, proves
23 conclusively that there is no headland or other feature on the
24 Guyana coast that distorts the provisional equidistant line.
25 That's an impressive claim. And how did he prove this? Look

16:36:03 1 closely at what Mr. Reichler did. Like every piece of magic,
2 if you are not careful, the hand moves faster than the eye.
3 Mr. Reichler tilted the map so that he said the coastline runs
4 from west to east. Well, it does not do that quite, in fact.
5 The Suriname coastline ran west to east before the tilt, so if
6 you tilt the coast, it still cannot run west-east.

7 What Mr. Reichler did, in fact, was tilt the coastline
8 until the first segment of the provisional equidistant line
9 faced due north. The result is that the coastline of Guyana
10 runs in a south, southwesterly--south southeasterly, north
11 northwesterly, there are too many directions in that to say
12 that clearly. The coast of Suriname runs in a south
13 southwesterly, north, northeasterly direction. But for the
14 moment let's forgive Mr. Reichler this element of cartographic
15 license. What Mr. Reichler then did was to place the "X" axis
16 of the Jaenicke diagram along the west-east line so that the
17 "X" axis runs across the top of the Berbice Headland. He then
18 ran the "Y" axis from the intersection of the "X" axis with the
19 equidistant line.

20 Now, why if he was testing the relationship of true
21 equidistant to the Jaenicke diagram did he not start the "Y"
22 axis from the land boundary terminus? Because that's what
23 Professor Jaenicke did. Well, we don't know that. It
24 certainly would have made the effect of the diagram less
25 dramatic, but again we will excuse this cartographical, perhaps

16:37:44 1 theoretical license.

2 What does it all show? Mr. Reichler says that since
3 the equidistant line tracks the "Y" axis of a Jaenicke diagram,
4 it proves that the coastal geography produces no distorting
5 effects on the line in question. And he put the Jaenicke
6 headland line on the map to move his point. That's the image
7 you have there.

8 I will say it is impressive, but we do have a couple
9 of queries. If you place the "X" axis of the Jaenicke diagram
10 at right angles to the equidistant line, then surely the
11 Jaenicke effect would always disappear. That's like saying if
12 you assume no headland with your placement of the "X" axis,
13 then you have assumed the Jaenicke effect away. So, the
14 placement of the "X" axis here was critical to the result that
15 was achieved. In short, the coastlines were tilted just to the
16 point that the diversion effect will disappear.

17 Now, if Mr. Reichler had run the "X" axis along a real
18 west-east coastal direction, the actual direction of the
19 Suriname coast, then the Jaenicke effect produced by the
20 Berbice Headland would have been obvious. But by tilting the
21 coastlines until the line resulting from the Jaenicke effect,
22 the provisional equidistant line lay along the "Y" axis, he
23 managed to tilt the Jaenicke effect away.

24 Now, we thought that we would double-check all of this
25 by applying the Reichler tilt to the Jaenicke diagram itself,

16:39:41 1 and just to make the parallel clear, we have superimposed the
2 first segment of the equidistant line on the Jaenicke diagram.
3 So, we tilted the coastline on the Jaenicke diagram, and just
4 as Mr. Reichler did with the Guyana and Suriname coastlines, it
5 turns out once that first segment of the equidistant line
6 reaches the "Y" axis, the Jaenicke diversion effect has
7 essentially disappeared.

8 So what does all of this show? It suggests to us that
9 the Reichler tilt is a very powerful weapon; not only does it
10 prove that there is no Jaenicke effect of the Berbice Headland,
11 it also proves there is no Jaenicke effect on the Jaenicke
12 effect diagram. But, in fact, all that was shown is that if
13 you assumed that there is no Berbice Headland, then there is no
14 diversion. But if you do have a headland, then there is a
15 diversion, and there is a diversionary effect. If you are
16 prepared to admit there is a headland there, there is a
17 diversionary effect, and that is exactly what Professor
18 Jaenicke showed.

19 And assuming there was no headland is exactly the
20 fallacy in Dr. Smith's report. He just assumed without even
21 discussing the issue that there was no Berbice Headland, even
22 though he was ready to find a headland at Hermina Bank, a
23 feature which we have shown has much less impact on the
24 provisional equidistant line than the Berbice Headland does.

25 And all of this relates back to what I described

16:41:22 1 earlier as Dr. Smith's fundamental error: Assuming you can get
2 rid of the Berbice Headland by combining the coasts of Suriname
3 and Guyana and claiming that they produce a long, shallow
4 concavity.

5 Now, Mr. Reichler also claimed that his tilt technique
6 proved that Hermina Bank does produce a diversionary effect,
7 but as we have seen, it all depends on the tilt. The real
8 point from all of this is that notwithstanding this attempt at
9 refashioning the coastal orientation by Guyana, the Berbice
10 Headland does create a diversion effect by virtue of its
11 location near the land boundary terminus, and although the
12 effect is mitigated somewhat by Hermina Bank, the path set by
13 Berbice affects the course of the provisional equidistant line
14 throughout. The path results in encroachment or cut-off of the
15 coastal projection of Suriname.

16 Guyana wants to turn this on its head. It wants to
17 claim that the feature that is further away from the land
18 boundary terminus has a greater impact than the feature that is
19 closer. But even Dr. Smith acknowledged in cross-examination
20 that the headland closer to the land boundary terminus would
21 have a greater impact than the headland that is further away,
22 and of course he had to do that because it was a matter of
23 simple geometry. The closer headland must have a greater
24 effect.

25 Mr. President, the responsiveness of a provisional

16:43:05 1 equidistant line to particular coastal features is certainly a
2 strength of the equidistant method where coasts are regular,
3 particularly in the case of opposite States. But at the same
4 time it is a weakness of the equidistance method when
5 particular features push the line one way or another in
6 circumstances where the coasts are otherwise overall roughly
7 comparable. This propensity of equidistance to respond to
8 micro features and thus cause disadvantage to one or another
9 side has resulted in courts and tribunals looking at
10 alternative methods of delimitation. And that leads to us the
11 bisector method.

12 Now, Professor Oxman already this morning set out the
13 nature of bisector and the advantages of such an approach, and
14 I will try not to repeat what he said, but just let me
15 highlight a few points. An angle bisector is a line that
16 bisects the angle formed by the intersection of straight lines
17 representing those coastal fronts, representing coastal fronts,
18 and a precondition to using that angle bisector method is to
19 establish coastal fronts that could then be bisected at their
20 point of intersection.

21 Now, as Professor Oxman mentioned, a perpendicular is
22 just an angle bisector applied to an angle of 180 degrees. So,
23 if the coasts of two States are aligned in a single line, a
24 maritime boundary based on the perpendicular would be a
25 straight line at right angles to the coast. If these coasts

16:44:51 1 were aligned at an angle of 90 degrees, then the bisector
2 applied to the 90-degree angle would run at 45 degrees. The
3 same principle of bisecting is applied whether one speaks of a
4 perpendicular or an angle bisector. It is just that the
5 alignment of the coasts produced a different line of
6 orientation for the boundary.

7 And if we think about coasts that are aligned in a
8 straight line, we realize that in such a coastal configuration,
9 a perpendicular and an equidistant line are identical. That
10 was the point made by Professor Oxman this morning. But if
11 coasts do not form a constant line, then equidistant lines
12 would produce a different result. So, if there was a small
13 bump on coasts that are otherwise regular, an equidistant line
14 would veer off. A perpendicular line would stay at the same
15 line of constant direction and the same applies if you move
16 from a perpendicular to a bisector of angled coasts.

17 So, what this means, as Professor Oxman mentioned this
18 morning, is that a perpendicular or angled bisector is simply
19 an equidistant line drawn on the basis of straight coastal
20 front lines. The attraction of a perpendicular or an angle
21 bisector is its property of not being diverted one way or
22 another by relatively minor coastal features. And I think that
23 the fact that a perpendicular angle bisector and an equidistant
24 line are fundamentally the same in concept and in certain
25 circumstances would be identical in application has led to some

16:46:44 1 confusion. Claims that boundaries are based on the equidistant
2 method have to be looked at closely because the boundary may be
3 equally regarded as an application of the perpendicular or
4 angle bisector method.

5 On Monday, in cross-examination by my colleague,
6 Mr. Saunders, Dr. Smith was referred to a contradiction between
7 what he had said in the limits and seas series relating to the
8 Brazil-Uruguay boundary, which he described as a perpendicular
9 boundary, and the fact he had included the Brazil-Uruguay
10 boundary in his report amongst the delimitations of which he
11 said equidistance has been--clearly been the method of choice
12 by these countries. Now, when he was questioned about this,
13 Dr. Smith sought to reconcile what he said in "Limits in the
14 Seas" with what he said in his report by saying that even
15 though the Brazil-Uruguay boundary was not a true equidistant
16 line, he understood the intent was that the line was based on
17 the equidistance method.

18 That's a very interesting response. It seems that
19 Dr. Smith, in fact, includes a perpendicular as part of the
20 equidistance method. Perhaps he was making the same point that
21 I made earlier. A perpendicular is a simplified form of
22 equidistance. If that was his view, then an angle bisector is
23 also a simplified form of equidistance.

24 But when you go to his report you do find some
25 confusion about the use of perpendiculars and angle bisectors.

16:48:19 1 I will go back to the Brazil-Uruguay agreement because
2 Dr. Smith in his report at paragraph 11 quoted what Judge
3 Aréchaga said about the Brazil-Uruguay agreement. Judge
4 Aréchaga said the parties adopted a line nearly perpendicular
5 to the general direction of the coasts which achieved
6 substantially the same result as the equidistant line
7 originally agreed to in a joint declaration. They adopted a
8 perpendicular which achieved substantially the same result as
9 an agreed equidistant line. But then Dr. Smith concludes on
10 the basis of Judge Aréchaga's study that as a result of the use
11 of equidistance, geography played a neutral role, and he said
12 that in paragraph 12 of his report. Geography played a neutral
13 role. But if you think about it, that comment doesn't
14 withstand any analysis. Geography is hardly neutral if
15 equidistance is used because it is particular coastal features
16 of the geography that determined where the equidistance
17 boundary would run.

18 Now, geography does play a neutral role if a
19 perpendicular or an angled bisector is used because it's only
20 general coastal fronts that determine the outcome, not
21 particular coastal features. And if, as Judge Aréchaga says,
22 you agree on equidistance but you draw a perpendicular, what
23 you have done precisely is to give geography a neutral role.
24 It's not that equidistance gives geography a neutral role, it's
25 the other way around. The perpendicular gives it a neutral

16:50:06 1 role. So Dr. Smith got it completely the wrong way around.

2 Now, perpendicular and angular bisector approaches
3 were adopted, as Professor Oxman pointed out, in Gulf of Maine,
4 Tunisia-Libya, and in he mentioned the Grisbadarna, and in the
5 Gulf of Maine case the angle formed by the coasts of Canada and
6 United States formed something close to a right angle and the
7 Chamber saw a bisector in the first sector as providing for an
8 equal division of overlapping areas.

9 Now, last week Professor Schrijver said that the Gulf
10 of Maine case does not provide a good example because the
11 geography is more complicated than here, and in some respects
12 that is true. But he overlooked the point that the Chamber
13 rejected equidistance in the first sector not because of any
14 major distorting features, but because of minor distorting
15 features. It was rocks and islets that caused the distortion
16 in the--that equidistance would produce in the first sector of
17 the Gulf of Maine. It wasn't major features that caused the
18 distortion, but minor features that caused the distortion. And
19 the angle bisector divided the area equally without the impact
20 of minor features that pushed or pulled the line one way or the
21 other. In short, the angle bisector method is well grounded in
22 law and provides an approach that avoids the pushing and
23 pulling of an equidistance line.

24 Let me turn now, and I think, Mr. President, this is
25 the final point I will deal with today, and the rest of my

16:51:48 1 presentation I will come back to in my next presentation. I
2 want to deal now with the application of the bisector method.
3 The last section of this, which I will not do today, relates to
4 looking at the particular methods in this particular case, but
5 I will do that as part of my presentation in my next
6 presentation dealing with proportionality, so let me finish
7 with the application of the bisector method in this case.

8 Now, the application of bisector method, as I
9 mentioned, requires the drawing of coastal front lines, and
10 that, of course, we have done, and I mentioned that earlier.
11 If the angle bisector is drawn to those coastal front lines,
12 the result is an azimuth--that is the coastal front lines that
13 we talked about earlier--the result is an azimuth of 17
14 degrees. Now, Guyana has objected that the intersection of the
15 coastal front lines does not occur at the land boundary
16 terminus. Indeed, Mr. Reichler was at his rhetorical best last
17 week when he asked how can you bisect an angle when the two
18 coastal fronts do not meet. Well, we puzzled about that. We
19 did think about consulting the Johns Hopkins experts, but in
20 the end we just plucked up our courage and tried it ourselves.
21 And here is what we did. We joined the lines, and then we
22 bisected the angle, and it turned out to be 17 degrees.

23 Now, the complaint about coastal front lines not
24 meeting, Mr. President, is really a misunderstanding about what
25 coastal front lines really are. They are not lines on the

16:53:30 1 coast. They are notional lines representing generalized
2 coastal direction and coastal length. They are lines
3 representing the coast, but they don't have to be actually on
4 the coast. Whether they are depicted on a map so that they
5 meet depends on whether they are depicted in this case running
6 on the outer portions of the coast or drawn further inland, and
7 it all depends on the actual orientation of the coasts and the
8 location of the land boundary terminus whether if they are
9 drawn on the outer part of the coasts, they will necessarily
10 meet.

11 Once their direction and length have been established,
12 they can be transposed to meet the land boundary terminus if
13 that serves a useful function. A bisector of an angle formed
14 by the coastal fronts of Guyana and Suriname is an azimuth of
15 17 degrees wherever the intersection of those coastal fronts
16 take place or wherever they're transposed to. Moving the line
17 representing the coastal front of Guyana to intersect with the
18 coastal front of Suriname to the 1936 Point still does not
19 change the angle of the coastal intersection. The bisector is
20 still at 17 degrees.

21 Now, having established a bisector, it is, of course,
22 necessary to locate it. A bisector provides the appropriate
23 direction and orientation for the boundary. But the question
24 arises where do you locate it? Where does it run from? And
25 you will recall, as Professor Oxman pointed out, in the Gulf of

16:55:06 1 Maine there was an agreed starting point, point A, which had
2 been established by the parties because they did not want the
3 chamber to decide disputed sovereignty over an island that lay
4 between point A and the land boundary terminus.

5 So, in the first sector, having identified and having
6 determined the bisector of the angle formed by the intersection
7 of the coasts, the Chamber simply applied the azimuth simply
8 starting at point A. In Tunisia-Libya, again as Professor
9 Oxman pointed out, the second segment of the line was based on
10 a bisector of the angle formed by lines representing the
11 coastal front of Tunisia, and a line along the seaward coast of
12 the Kerkennah Islands, and then that line was then transposed
13 to intersect with the first segment of the line, which is also
14 based on a bisector method, a perpendicular to the coast of the
15 land boundary terminus. Again, two operations were involved:
16 The determination of the bisector based on notional angles of
17 coasts, and then the location of the bisector at the
18 appropriate starting point of the line.

19 Now, in the present case, if there were no other
20 circumstances to take into account, the appropriate starting
21 point for the 17-degree bisector would be the land boundary
22 terminus; that is, the intersection of the 10-degree line with
23 the low-water mark. However, as we have demonstrated in the
24 present case, as Professor Oxman demonstrated, in the present
25 case the extension of the 10-degree line into the territorial

16:56:43 1 sea and beyond means that if the bisector method was to be
2 used, the starting point would have to be further out, and
3 that's something I will come back to, Mr. President, in my next
4 presentation. And with your permission, we will come to an end
5 at this stage and we will continue tomorrow.

6 ARBITRATOR SMIT: Professor McRae, have you tried to
7 quantify the effect on these heads on the provisional
8 demarcation line?

9 PROFESSOR McRAE: That will be the subject of my
10 presentation on proportionality when we start to look at how
11 each line can be tested against areas allocated under the
12 proportionality models, in a similar way to which Mr. Reichler
13 did on Saturday. We will be coming back to that.

14 ARBITRATOR SMIT: Okay, thank you.

15 PRESIDENT NELSON: Thank you very much, Professor
16 McRae.

17 We will resume this oral hearing tomorrow morning at
18 the usual time. Thank you.

19 (Whereupon, at 4:57 p.m., the hearing was adjourned
20 until 9:30 a.m., the following day.)

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CERTIFICATE OF REPORTER

I, David A. Kasdan, RDR-CRR, Court Reporter, do hereby certify that the foregoing proceedings were stenographically recorded by me and thereafter reduced to typewritten form by computer-assisted transcription under my direction and supervision; and that the foregoing transcript is a true and accurate record of the proceedings.

I further certify that I am neither counsel for, related to, nor employed by any of the parties to this action in this proceeding, nor financially or otherwise interested in the outcome of this litigation.

DAVID A. KASDAN