

APPENDIX A

The Major River Deltas Of The World

Selected High Quality Images Classified Examples of Delta Types
Location, Landmass, Ocean Basin, Climate, Air Temperature,
Tide, Discharge (water/sediment), ID

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Appendix A: List of the Major River Deltas of the World

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Symbols for Delta Climate Zones (after Köppen)

Climate Type	Subtype	Details
POLAR	EF Ice cap	E Polar climates with no warm season: warmest month below 10 ⁰ C (50 ⁰ F). EF Perpetual frost: All months below 0 ⁰ C (32 ⁰ F). ET Tundra climate: warmest month below 10 ⁰ C (50 ⁰ F) but above 0 ⁰ C (32 ⁰ F).
	ET Tundra	
COOLER HUMID	Dc Dd Subarctic	*D Rainy climates with severe winters: coldest month below 0 ⁰ C (32 ⁰ F); warmest month above 10 ⁰ C (50 ⁰ F). *Modification of
	Db Continental Cool summer	
	Da Continental Warm summer	
WARMER HUMID	Cb Cc Marine West Coast	*C Rainy climates with mild winters: coolest month above 0 ⁰ C (32 ⁰ F), but below 18 ⁰ C (64.4 ⁰ F); warmest month above 10 ⁰ C (50 ⁰ F).
	Ca Humid Subtropical	
	Cs Mediterranean	
DRY	BS Steppe	B Dry climates; limits are defined by formulae based on Rainfall effectiveness: BS Steppe or semi-arid climate. BW Desert (German: Wüste) or arid climate
	BW Desert	
TROPICAL HUMID	Aw As Savanna	A Rainy climate with no winter: coolest month above 18 ⁰ C (64.4 ⁰ F).
	Af Am Rain forest	

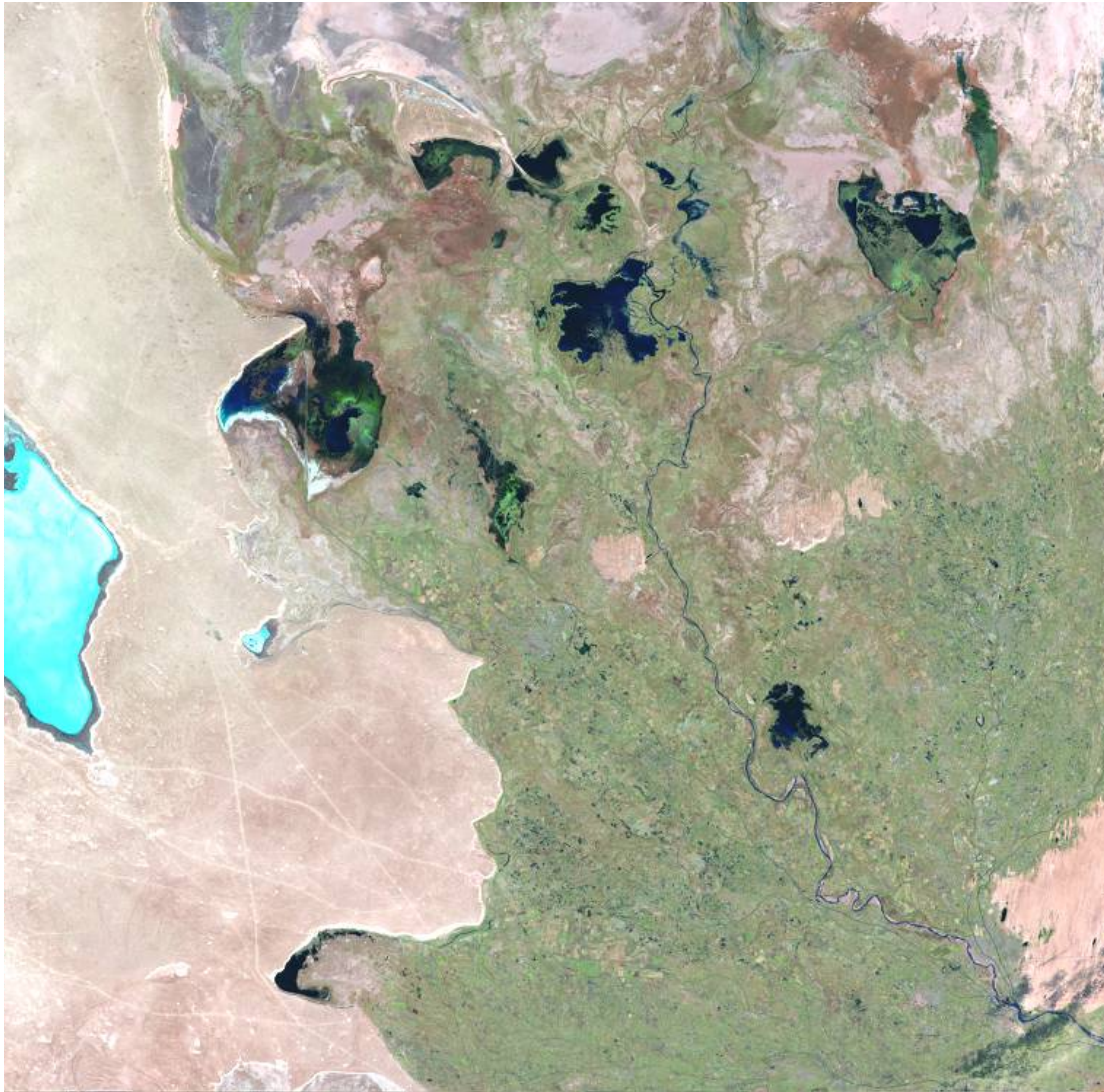


IMAGE ACQUIRED NOVEMBER 8, 2002

Amu Darya River Delta, Uzbekistan, Asia.

LOCATION	LAT. 43°11'N, LONG. 58°54'E
LANDMASS DRAINED	ASIA
BASIN OF DEPOSITION	ARAL SEA
CLIMATE	DESERT (BWk)
AIR TEMP RANGE	-6°C - 26°C,
TIDAL AMPLITUDE	0.8 M
DISCHARGE	WATER, 1500 M ³ /S, SEDIMENT 100X10 ⁶ TONS/YR,
DRAINAGE BASIN AREA	64,000 KM ²
ID	7161030000231250, PATH 161 ROW 30



IMAGE ACQUIRED OCTOBER 28, 1999

Apalachicola River Delta, Florida, USA, North America

LOCATION	LAT. 30°18'N, LONG. 85°32'W
LANDMASS DRAINED	NORTH AMERICA
BASIN OF DEPOSITION	GULF OF MEXICO
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	9.2°C-40.4°C
TIDAL AMPLITUDE	1 M
TIDAL TYPE	DIURNAL
ID	7019039009930150, PATH 19 ROW 39
COMMENT	DELTA TYPE, CUSPATE, WAVE DOMINATED

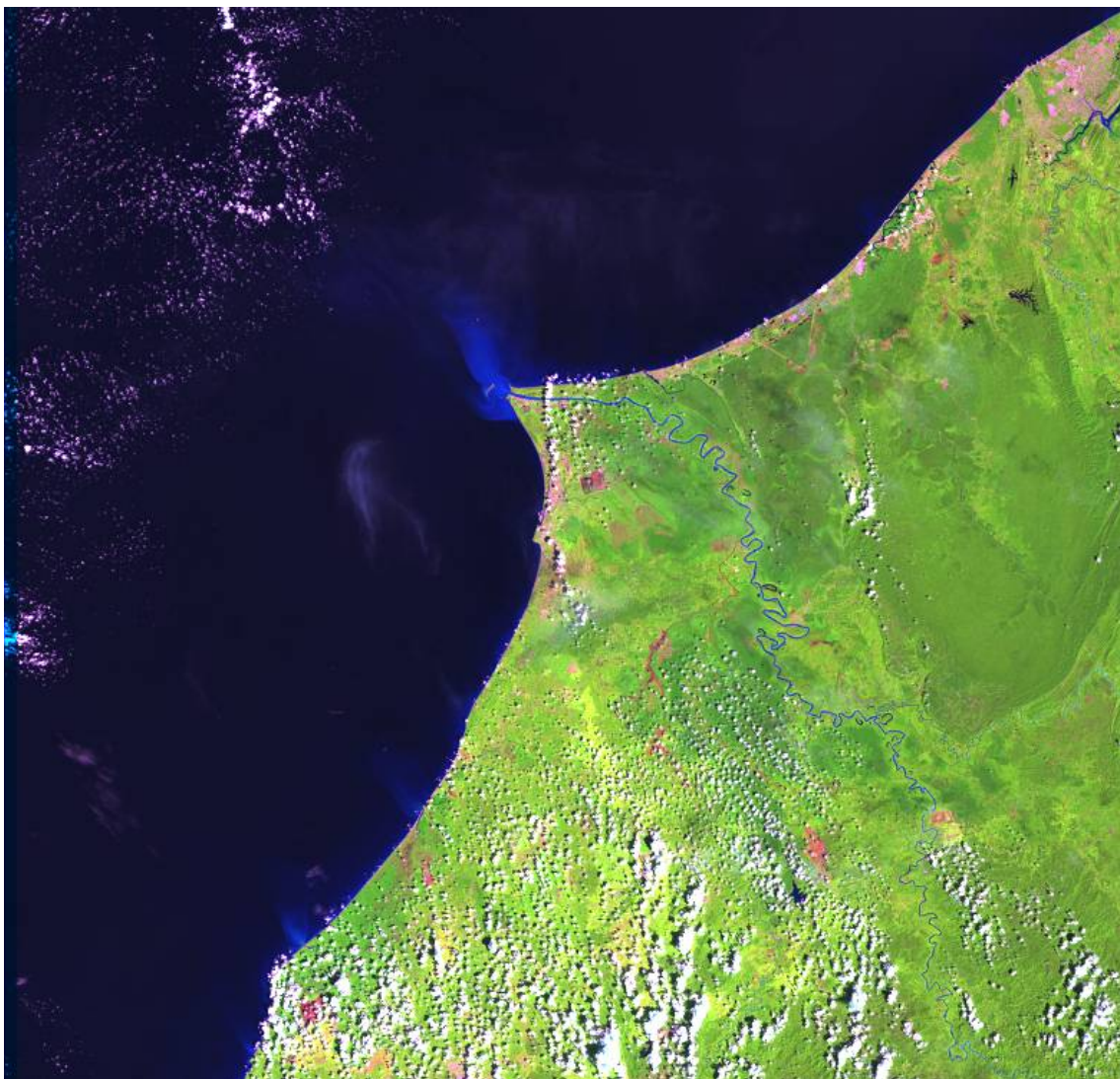


Image Acquired NOVEMBER 2, 1999

Baram River Delta, Malaysia, Asia

LOCATION	LAT. 4°20'N, LONG. 114°E
LANDMASS DRAINED	ASIA
BASIN OF DEPOSITION	SOUTH CHINA SEA
CLIMATE	TROPICAL RAINFOREST (Af)
AIR TEMPERATURE RANGE	21°C-32°C
TYPE OF TIDE	DIURNAL
ID	7119057109933050, PATH 119 Row 57
COMMENTS	DELTA TYPE, CUSPATE, WAVE-DOMINATED



IMAGE ACQUIRED SEPTEMBER 24, 2000

Betsiboka River Delta, Madagascar, Africa

LOCATION	LAT. 15°54'S, LONG. 46°18'E
LANDMASS DRAINED	MADAGASCAR ISLAND
BASIN OF DEPOSITION	INDIAN OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
TYPE OF TIDE	SEMIDIURNAL
AIR TEMP RANGE	21°C – 35°C,
ID	7160071000026850, PATH 160 ROW 71



IMAGE ACQUIRED JULY 11, 2001

Burdekin River Delta, Queensland, Australia

LOCATION	LAT. 20°13'S, LONG. 147°15'E
LANDMASS DRAINED	AUSTRALIA
BASIN OF DEPOSITION	CORAL SEA (PACIFIC OCEAN)
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	22°C-30°C,
DISCHARGE	WATER, 9.8X10 ⁹ M ³ /YR
TIDAL AMPLITUDE	2.2 M
TYPE	MIXED
ID	7094074000119250 PATH 94 ROW 74



IMAGE ACQUIRED JANUARY 8, 2002

Chao Phraya River delta, Thailand, Asia

LOCATION	LAT. 13°00'N, LONG. 100°24'E
LANDMASS DRAINED	THAILAND, ASIA
BASIN OF DEPOSITION	GULF OF THAILAND, PACIFIC OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	24°C – 40.4C,
TYPE OF TIDE	SEMIDIURNAL
ID	7129051000200850 PATH 129, ROW 51



IMAGE ACQUIRED NOVEMBER 10, 2002

Colorado River Delta, Mexico, North America

LOCATION	LAT. 31°44'N, LONG. 114°21'W
LANDMASS DRAINED	MEXICO, NORTH AMERICA
BASIN OF DEPOSITION	GULF OF CALIFORNIA
CLIMATE	DESERT (BWh)
AIR TEMP RANGE	12°C – 32°C,
TIDAL AMPLITUDE	7-9 M
TYPE	SEMIDIURNAL
DISCHARGE	SEDIMENT 135X10 ⁶ TONS/YR
ID	7038038000231450, PATH 38 ROW 38



IMAGE ACQUIRED AUGUST 8, 1999

Danube River Delta, Romania, Europe

LOCATION	LAT. 44°36'N, LONG. 28°30'E
LANDMASS DRAINED	EUROPE.
BASIN OF DEPOSITION	BLACK SEA
CLIMATE	HUMID CONTINENTAL (Da)
AIR TEMP RANGE	-0.5°C TO 25.9°C
TIDAL AMPLITUDE	0.09 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 85000M ³ /S, SEDIMENT 67X10 ⁶ TONS/YR
DRAINAGE BASIN AREA	8.99X10 ⁵ KM ²
ID	7181029009922050, PATH 181 ROW 29



IMAGE ACQUIRED MAY 14, 2002

Dnieper River Delta, Ukraine, Europe.

LOCATION	LAT. 46°01'N, LONG. 32°03'E
LANDMASS DRAINED	EUROPE
BASIN OF DEPOSITION	BLACK SEA
CLIMATE	MIDDLE LATITUDE STEPPE (BSk)
AIR TEMP RANGE	-27.4°C – 26°C,
TIDAL AMPLITUDE	0.09 M
DISCHARGE	WATER, 17 000 M ³ /S,
ID	7179028000213450, PATH 179 ROW 28



IMAGE ACQUIRED MAY 19, 2002

Ebro River Delta, Spain, Europe

LOCATION	LAT. 40°20'N, LONG. 00°44'E
LANDMASS DRAINED	SPAIN, EUROPE.
BASIN OF DEPOSITION	MEDITERRANEAN SEA
CLIMATE	MEDITERRANEAN (Csa)
AIR TEMP RANGE	10°C TO 30°C
TIDAL AMPLITUDE	0.2 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 552M ³ /S, SEDIMENT 6.2X10 ⁶ TONS/YR
DRAINAGE BASIN AREA	8.58X10 ⁴ KM ²
ID	7198032000213950, PATH 198 ROW 32

A10-a



IMAGE ACQUIRED APRIL 14, 2001

Ebro River Delta, Spain, Europe

LOCATION	LAT. 40°20'N, LONG. 00°46'E
LANDMASS DRAINED	SPAIN, EUROPE.
BASIN OF DEPOSITION	MEDITERRANEAN SEA
CLIMATE	MEDITERRANEAN (Csa)
AIR TEMP RANGE	10°C TO 30°C,
TIDAL AMPLITUDE	0.2 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 552M ³ /S, SEDIMENT 6.2X10 ⁶ TONS/YR
DRAINAGE BASIN AREA	8.58X10 ⁴ KM ²
ID	7198032100110450, PATH 198 ROW 32

A10-b



IMAGE ACQUIRED MARCH 1, 2001

Fly River Delta, Papua New Guinea, Asia

LOCATION	LAT. 8°40'S, LONG.43°40'E
LANDMASS DRAINED	PAPUA NEW GUINEA
BASIN OF DEPOSITION	GULF OF PAPUA, OF THE CORAL SEA
CLIMATE	TROPICAL SAVANNA (AW)
TEMP RANGE	14°C TO 25°C
TIDAL AMPLITUDE	3.4 M
TYPE	MIXED
DISCHARGE	SEDIMENT 85x103TONS/YR
ID	7098066000106051, PATH 98 ROW 66

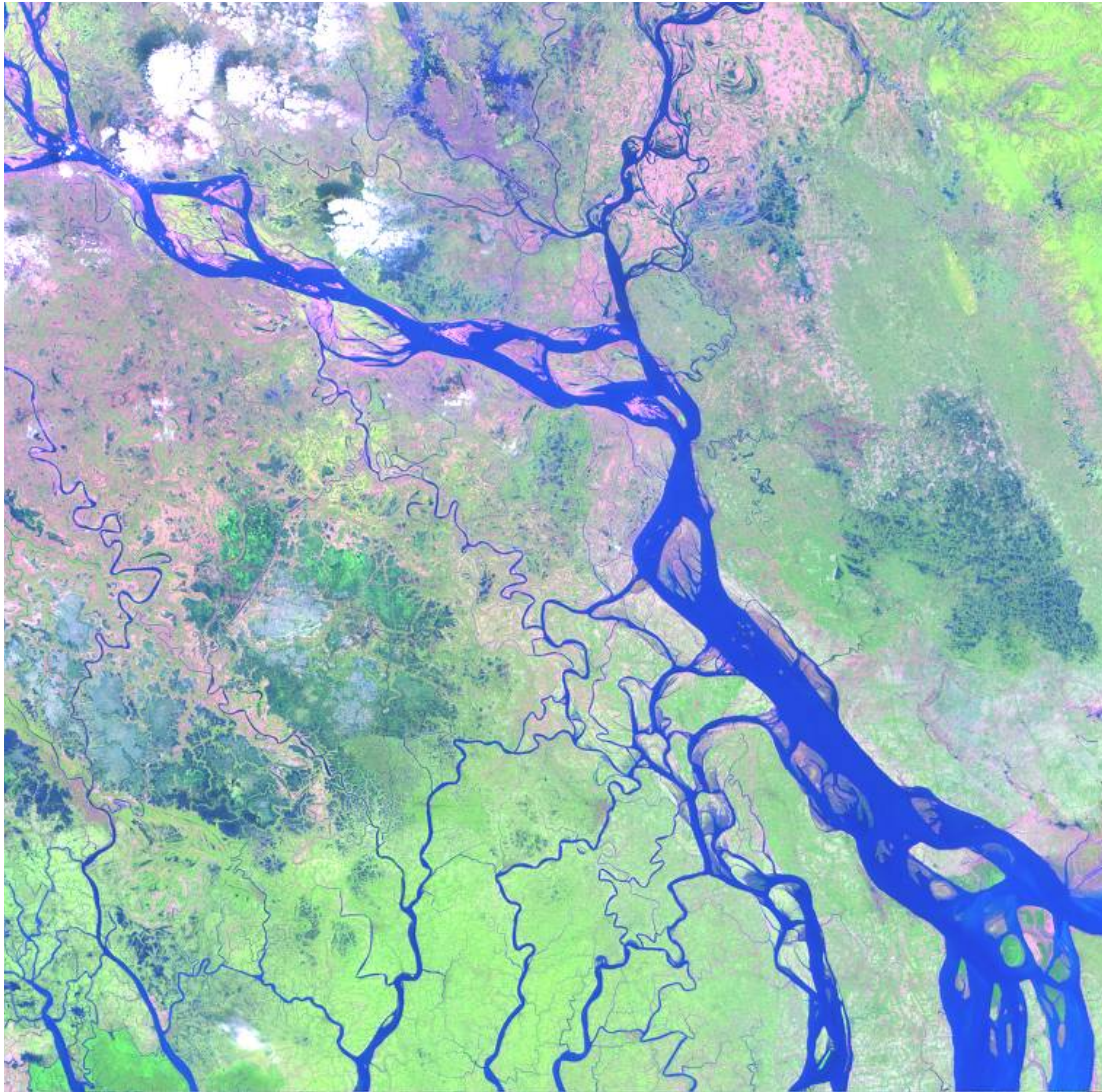


IMAGE ACQUIRED NOVEMBER 29, 2001

Ganges-Brahmaputra River Delta, India, Asia

LOCATION	LAT. 23°06'N, LONG. 90°21'E
LANDMASS DRAINED	INDIA, ASIA.
BASIN OF DEPOSITION	BAY OF BENGAL (INDIA OCEAN)
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	9.3°C TO 40.4°C
TIDAL AMPLITUDE	5.6 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	LOW
DISCHARGE	WATER 187,000 M ³ /S SEDIMENT 167X10 ⁶ TONS/YR,
DRAINAGE BASIN AREA	1.597X10 ⁶ KM ²
ID	7137044000133350, PATH 137 ROW 44

A12-a



IMAGE ACQUIRED JANUARY 4, 2001

Ganges-Brahmaputra River Delta, India, Asia

LOCATION:	LAT. 21°40'N, LONG. 88°29'E
LANDMASS DRAINED	INDIA, ASIA.
BASIN OF DEPOSITION	BAY OF BENGAL (INDIA OCEAN)
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	9.3°C TO 40.4°C
TIDAL AMPLITUDE	5.6 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	LOW
DISCHARGE	WATER 187,000 M ³ /S, SEDIMENT 167X10 ⁶ TONS/YR
DRAINAGE BASIN AREA	1.597X10 ⁶ KM ²
ID	7138045000100450, PATH 138 ROW 45

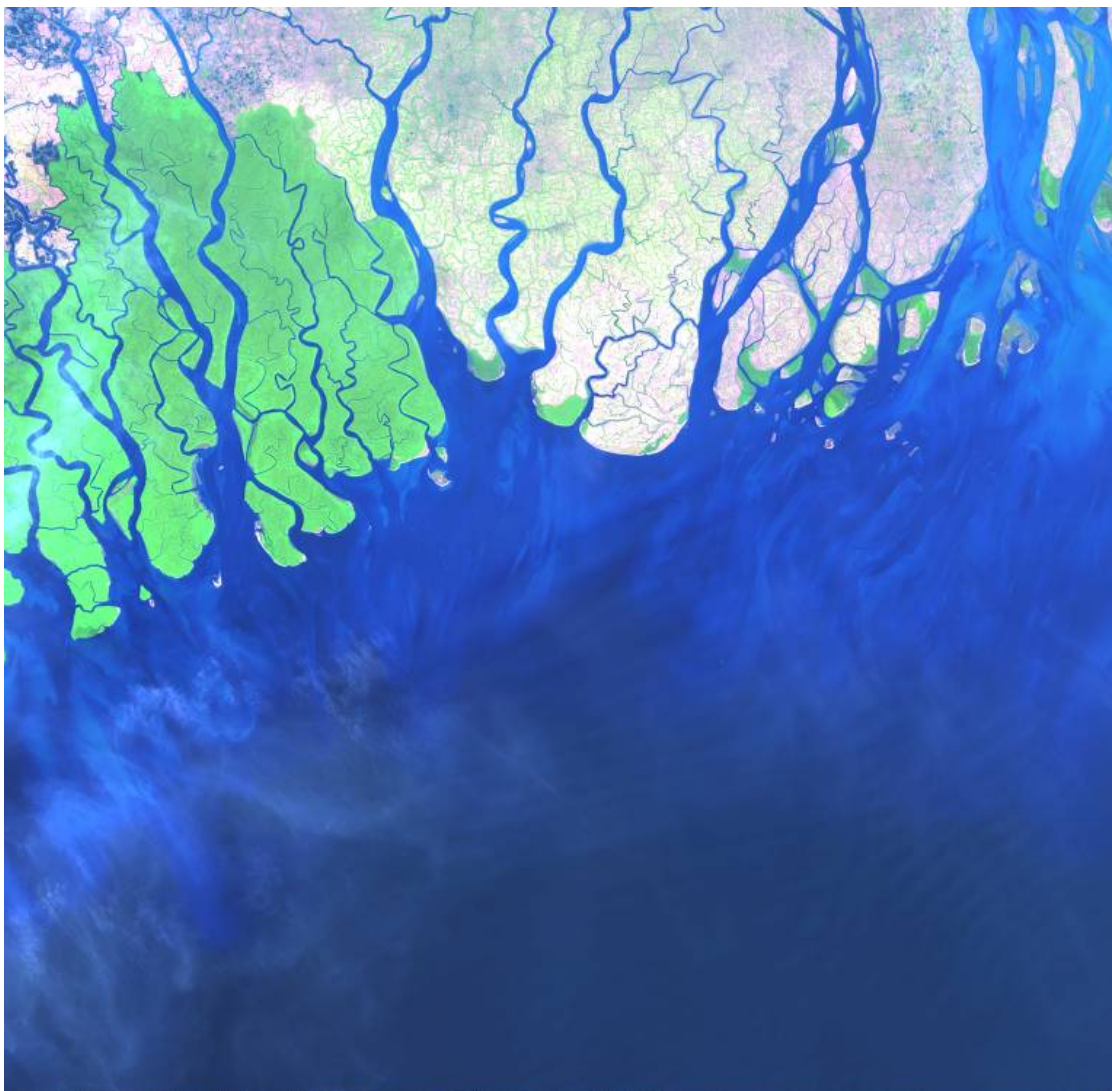


IMAGE ACQUIRED JANUARY 29, 2001

Ganges-Brahmaputra River Delta, India, Asia

LOCATION	LAT. 21°40'N, LONG. 90°00'E
LANDMASS DRAINED	INDIA, ASIA.
BASIN OF DEPOSITION	BAY OF BENGAL (INDIA OCEAN)
CLIMATE	TROPICAL RAINFOREST (Am),
AIR TEMP RANGE	9.3°C TO 40.4°C
TIDAL AMPLITUDE	5.6 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	LOW
DISCHARGE	WATER 187,000 M ³ /S, SEDIMENT 167X10 ⁶ TONS/YR,
DRAINAGE BASIN AREA	1.597X10 ⁶ KM ²
ID	7137045000102950, PATH 137 ROW 45

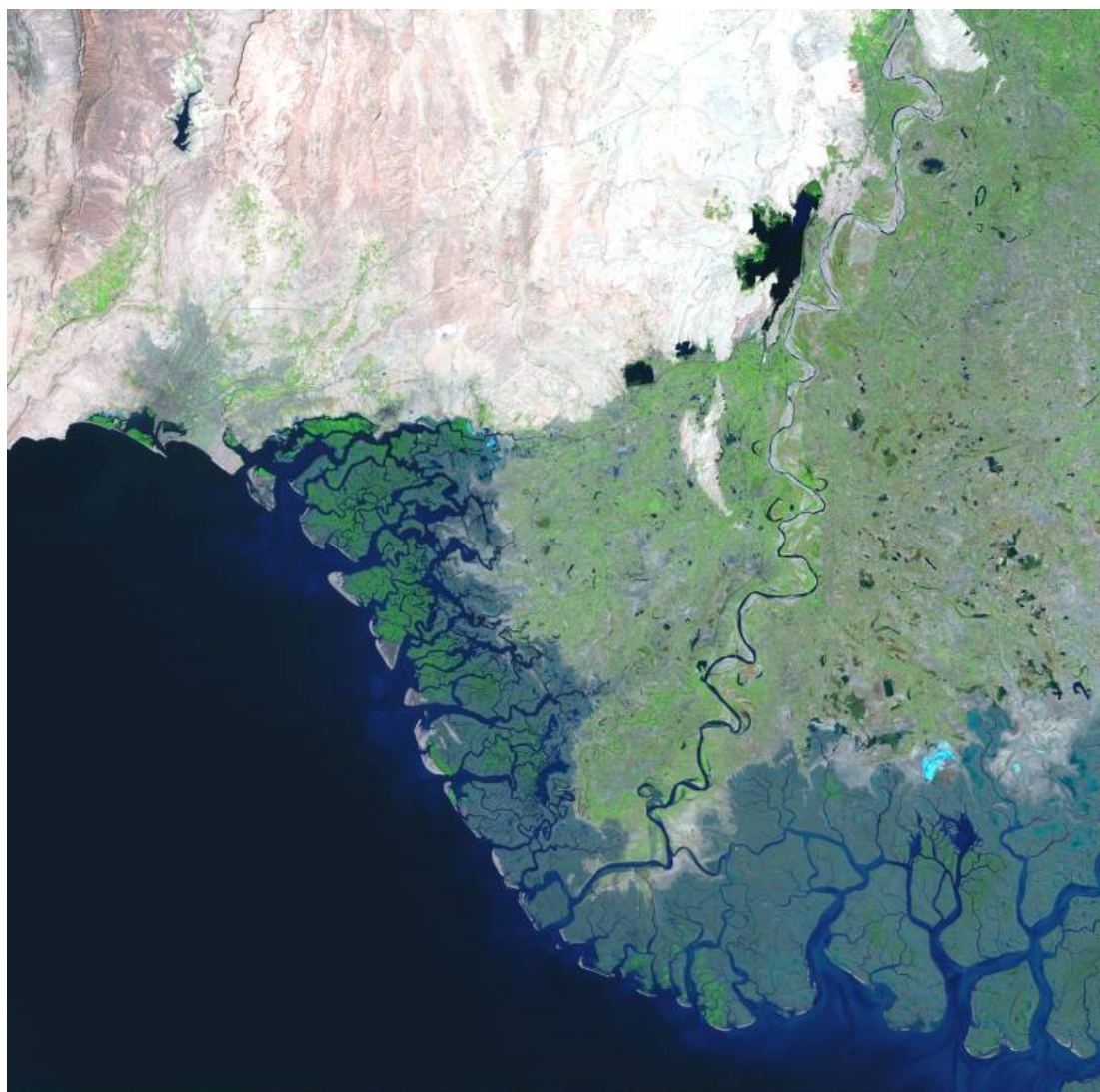


IMAGE ACQUIRED MARCH 8, 2000

Indus River Delta, Pakistan, Asia

LOCATION	LAT. 24°33'N, LONG. 67°32'E
LAND MASS DRAINED	INDIAN SUBCONTINENT
BASIN OF DEPOSITION	INDIAN OCEAN
CLIMATE	SUBTROPICAL DESERT (BWh)
AIR TEMP RANGE	9.3°C TO 40.4°C,
TIDAL AMPLITUDE	4.2 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 55000M3/S, SEDIMENT 100X10 ⁶ TONS/YR,
DRAINAGE BASIN AREA	9.63X10 ⁵ KM ²
ID	7152043000006850, PATH 152 ROW 43



IMAGE ACQUIRED APRIL 4, 2000

Irrawaddy River Delta, Myanmar, Asia

LOCATION	LAT. 15°54'N, LONG. 94°53'E
LANDMASS DRAINED	MYANMAR, ASIA.
BASIN OF DEPOSITION	GULF OF MARTABAN (INDIA OCEAN)
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	20°C TO 30°C
TIDAL AMPLITUDE	5.5 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	LOW
DISCHARGE	WATER 36000 M ³ /S, SEDIMENT 265X10 ⁶ TONS/YR
DRAINAGE BASIN AREA	3.418X10 ⁵ KM ²
ID	7133049000006350, PATH 133 ROW 49

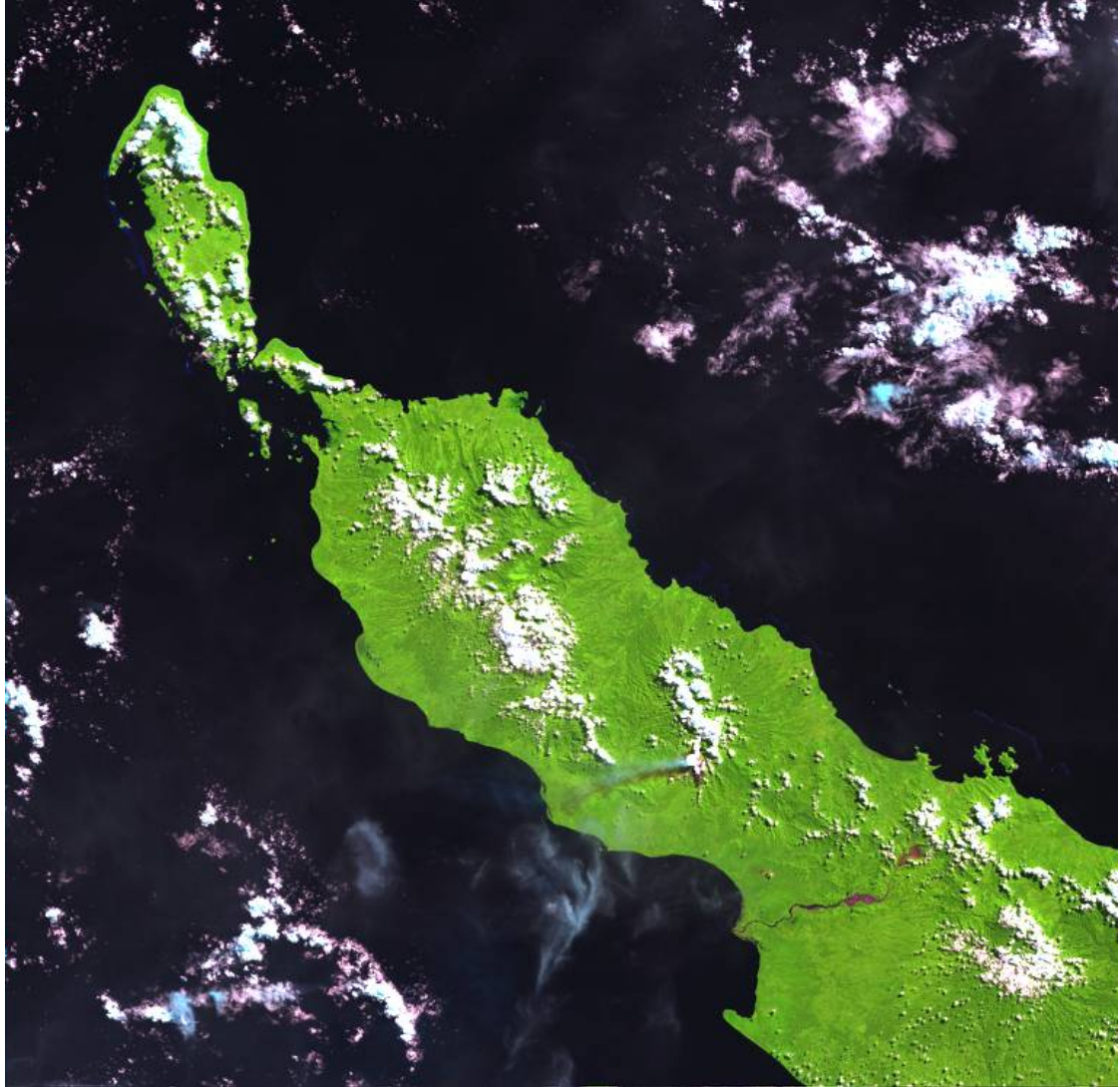


IMAGE ACQUIRED MAY 2, 2001

Jaba River delta, Papua New Guinea, Asia

LOCATION	LAT. 05°47'S, LONG. 155°04'E
LANDMASS DRAINED	PAPUA NEW GUINEA
BASIN OF DEPOSITION	PACIFIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Af)
AIR TEMP RANGE	25°C – 40.4°C,
TIDAL AMPLITUDE	3.8 M
TYPE	MIXED
ID	7091064000112250, PATH 91 ROW 64



IMAGE ACQUIRED FEBRUARY 2, 2002

Kelang River delta, Malaysia, Asia

LOCATION	LAT. 02°53'N, LONG. 99°45'E
LANDMASS DRAINED	MALAYSIA
BASIN OF DEPOSITION	PACIFIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Af)
AIR TEMP RANGE	28°C – 35°C,
TIDAL AMPLITUDE	0.2 M
TYPE	DIURNAL
ID	7128058000203350, PATH 128 ROW 58

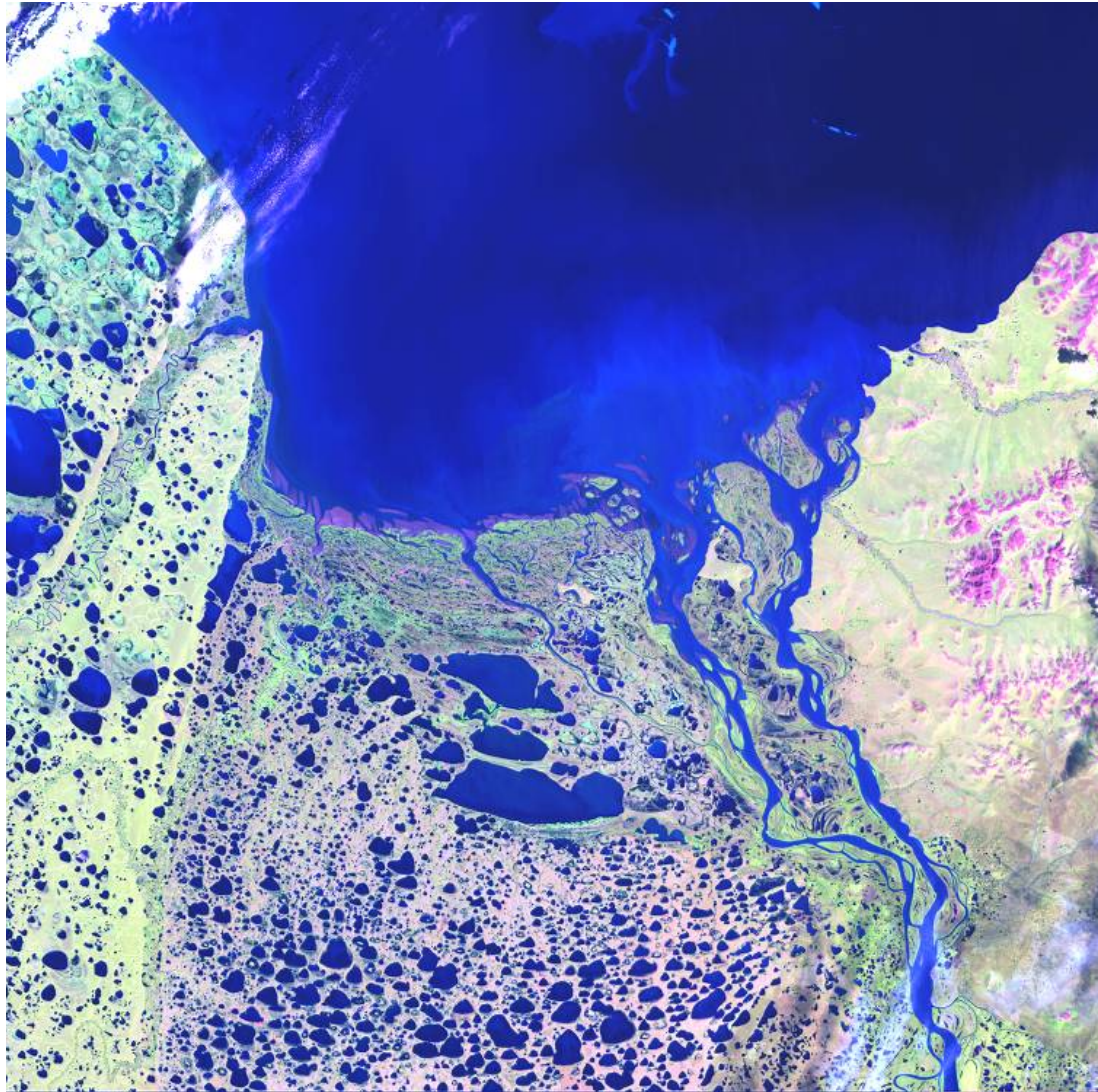


IMAGE ACQUIRED AUGUST 3, 2002

Kolyma River delta, Russia, Asia

LOCATION	LAT. 69°36'N, LONG. 159°04'E
LANDMASS DRAINED	EUROPE
BASIN OF DEPOSITION	EAST SIBERIA SEA
CLIMATE	TUNDRA (ET)
AIR TEMP RANGE	-53.5°C – 10°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7106011000221550, PATH 106 ROW 11



IMAGE ACQUIRED OCTOBER 28, 2000

Krishna River Delta, India, Asia

LOCATION	LAT. 15°54'N, LONG. 80°58'E
LANDMASS DRAINED	INDIA, ASIA
BASIN OF DEPOSITION	BAY OF BENGAL, INDIAN OCEAN
CLIMATE	HUMID SUBTROPICAL (Caf)
AIR TEMP RANGE	20°C TO 30°C
TIDAL AMPLITUDE	1.8 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 36,000M ³ /S
ID	7142049000030250, PATH 142 ROW 49

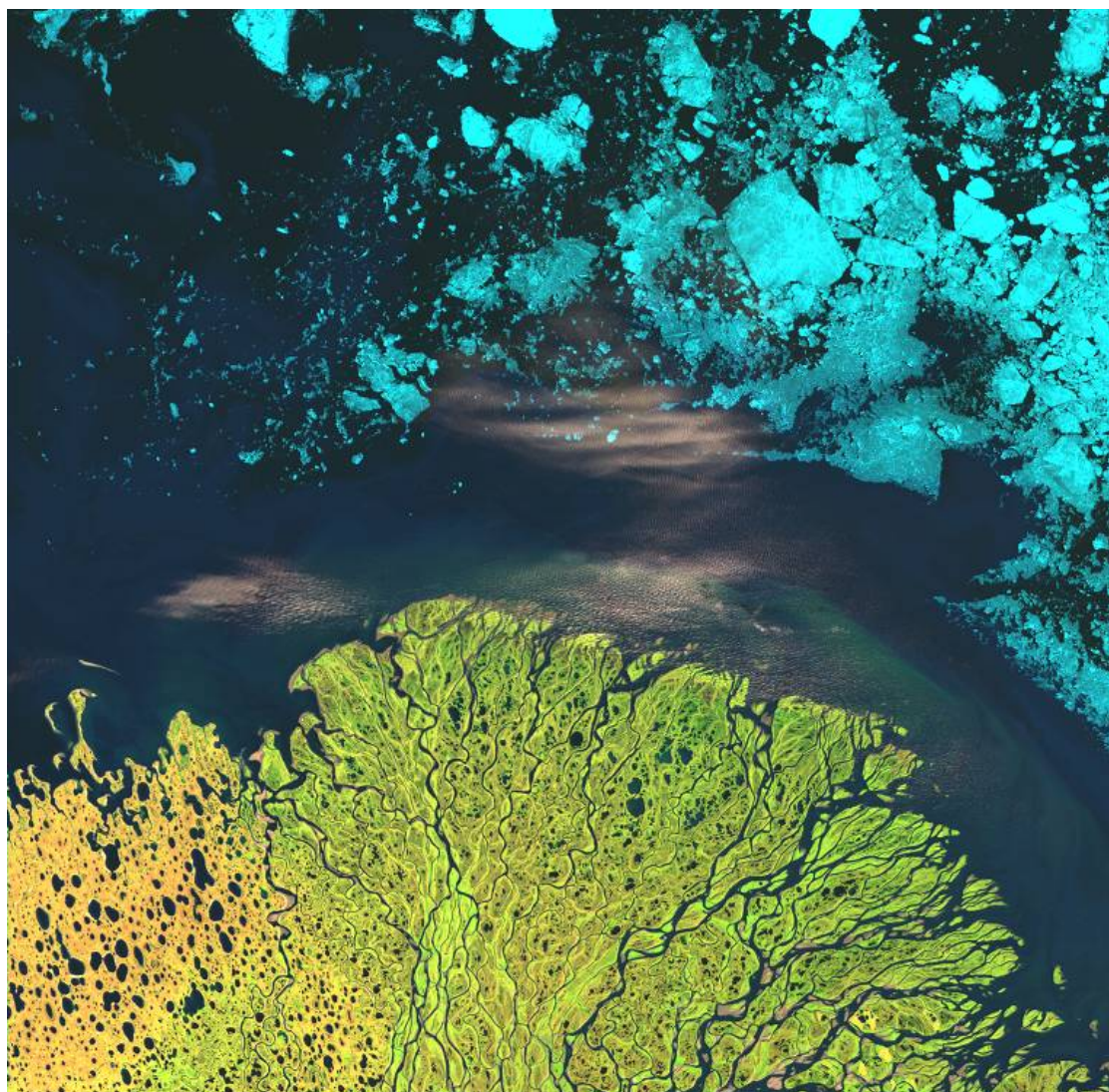


IMAGE ACQUIRED JULY 27, 2000

Lena River Delta, Russia, Asia

LOCATION	LAT. 73°28'N, LONG. 128°32'E
LANDMASS DRAINED	RUSSIA.
BASIN OF DEPOSITION	LAPTEV SEA
CLIMATE	TUNDRA (ET)
AIR TEMP RANGE	-40°C TO 10°C,
TIDAL AMPLITUDE	0.3 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 155000M ³ /S
DRAINAGE BASIN AREA	3.028X10 ⁶ KM ²
ID	7131008000020951, PATH 131 ROW 8
COMMENT	DELTA WITH ZONES OF ANASTOMOSING ALLUVIAL CHANNELS AND ZONES OF PERMAFROST PATTERN GROUND.

A19-a

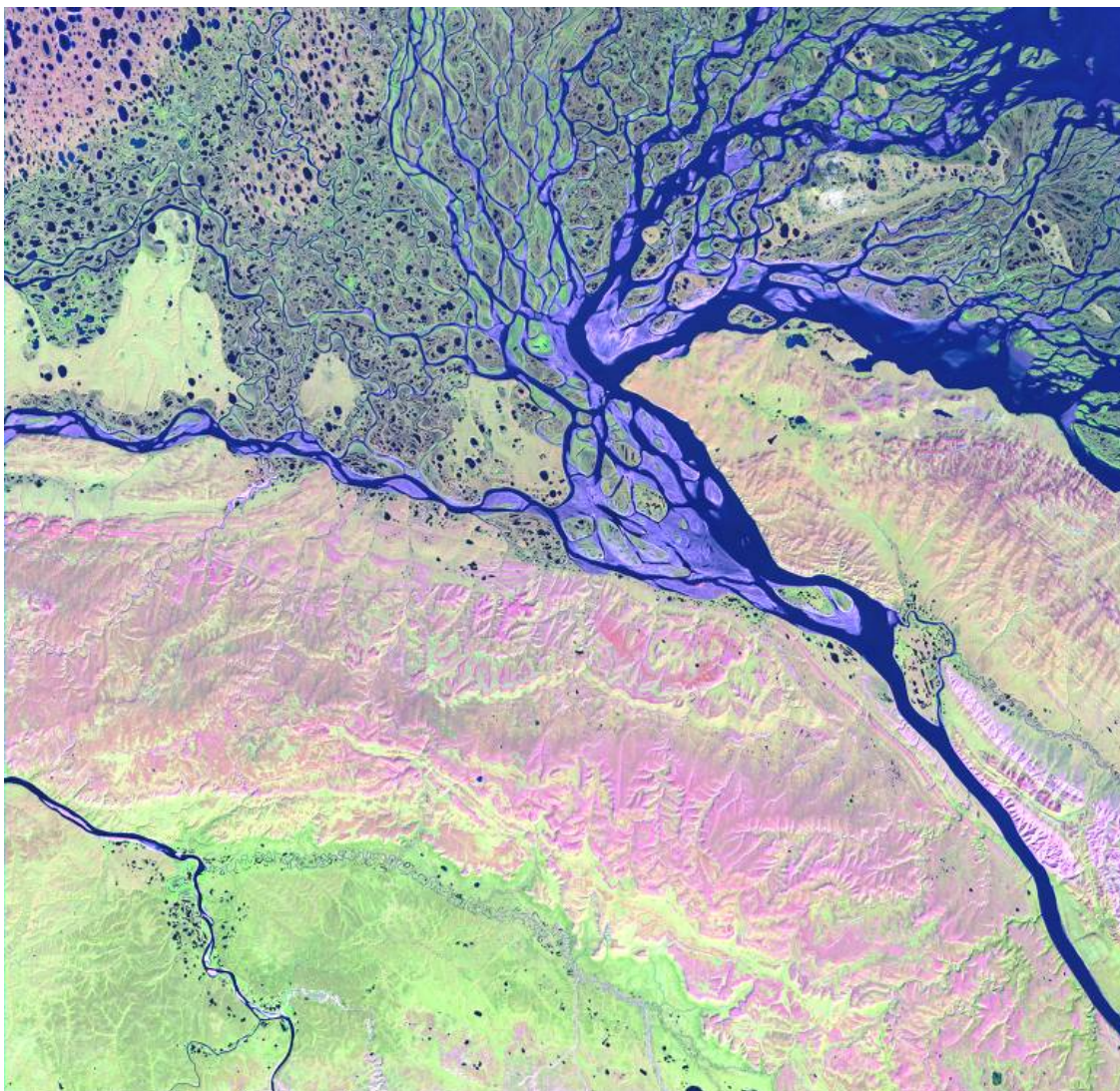


IMAGE ACQUIRED JULY 27, 2000

Lena River Delta, Russia, Asia

LOCATION	LAT. 73°28'N, LONG. 128°32'E
LANDMASS DRAINED	RUSSIA.
BASIN OF DEPOSITION	LAPTEV SEA
CLIMATE	TUNDRA (ET)
AIR TEMP RANGE	-40°C TO 10°C,
TIDAL AMPLITUDE	0.3 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 155000M ³ /S
DRAINAGE BASIN AREA	3.028X10 ⁶ KM ²
ID	7131009000020951, PATH 131 ROW 8
COMMENT	DELTA WITH ZONES OF ANASTOMOSING ALLUVIAL CHANNELS AND ZONES OF PERMAFROST PATTERN GROUND.

A19-b

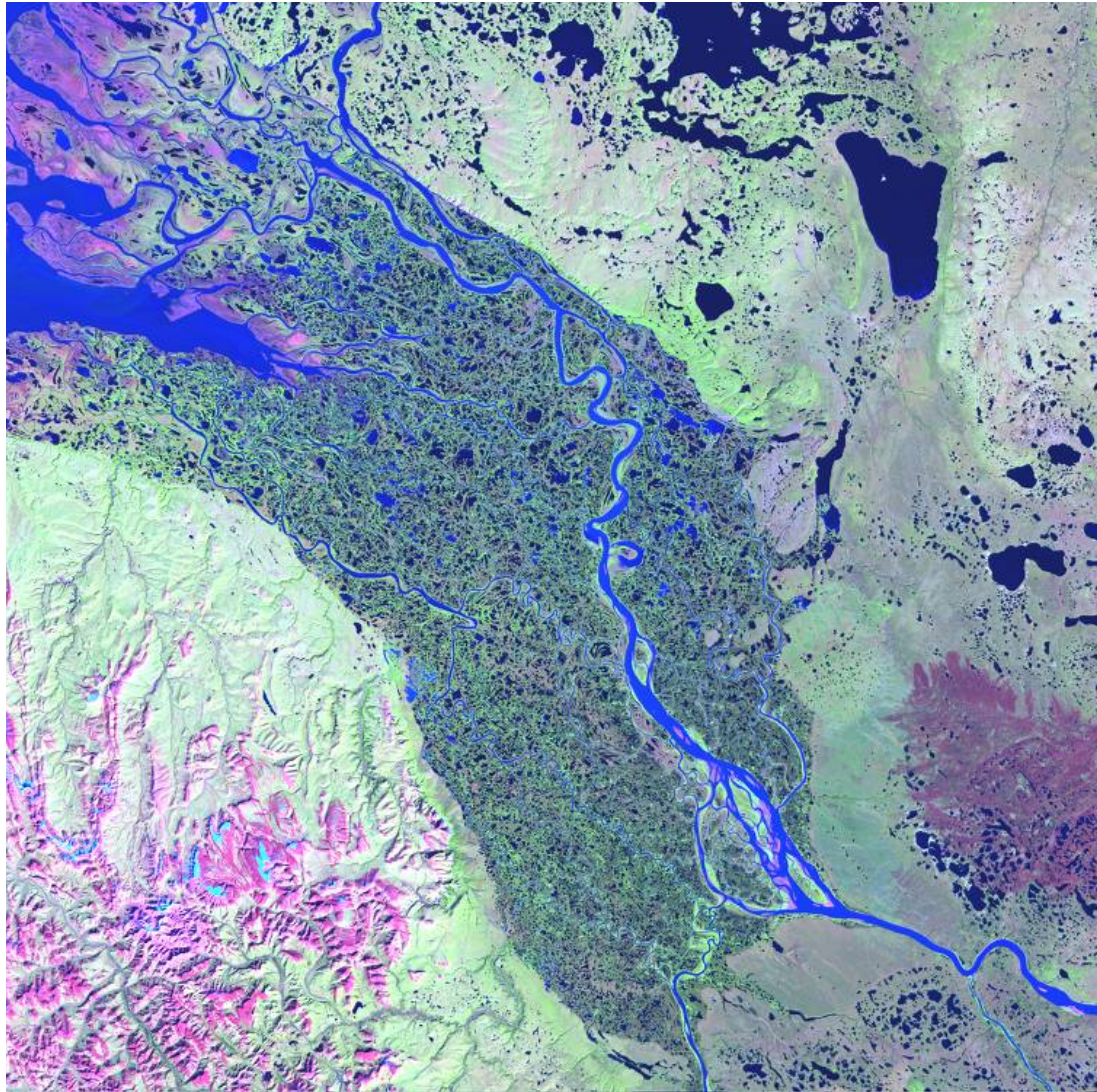


IMAGE ACQUIRED AUGUST 31, 2000

Mackenzie River Delta, Canada, North America

LOCATION	LAT. 68°16'N, LONG. 134°36'W
LANDMASS DRAINED	NORTH AMERICA (CANADA).
BASIN OF DEPOSITION	BEAUFORT SEA
CLIMATE	TUNDRA (ET)
AIR TEMP RANGE	-18°C TO 9°C,
TIDAL AMPLITUDE	0.2 M
TYPE	DIURNAL
MEAN WAVE HEIGHT	LOW
DISCHARGE	WATER 9,100 M ³ /S, SEDIMENT 126X10 ⁶ TONS/YR,
DRAINAGE BASIN AREA	1.448X10 ⁶ KM ²
ID	7063012000024450, PATH 63 ROW 12

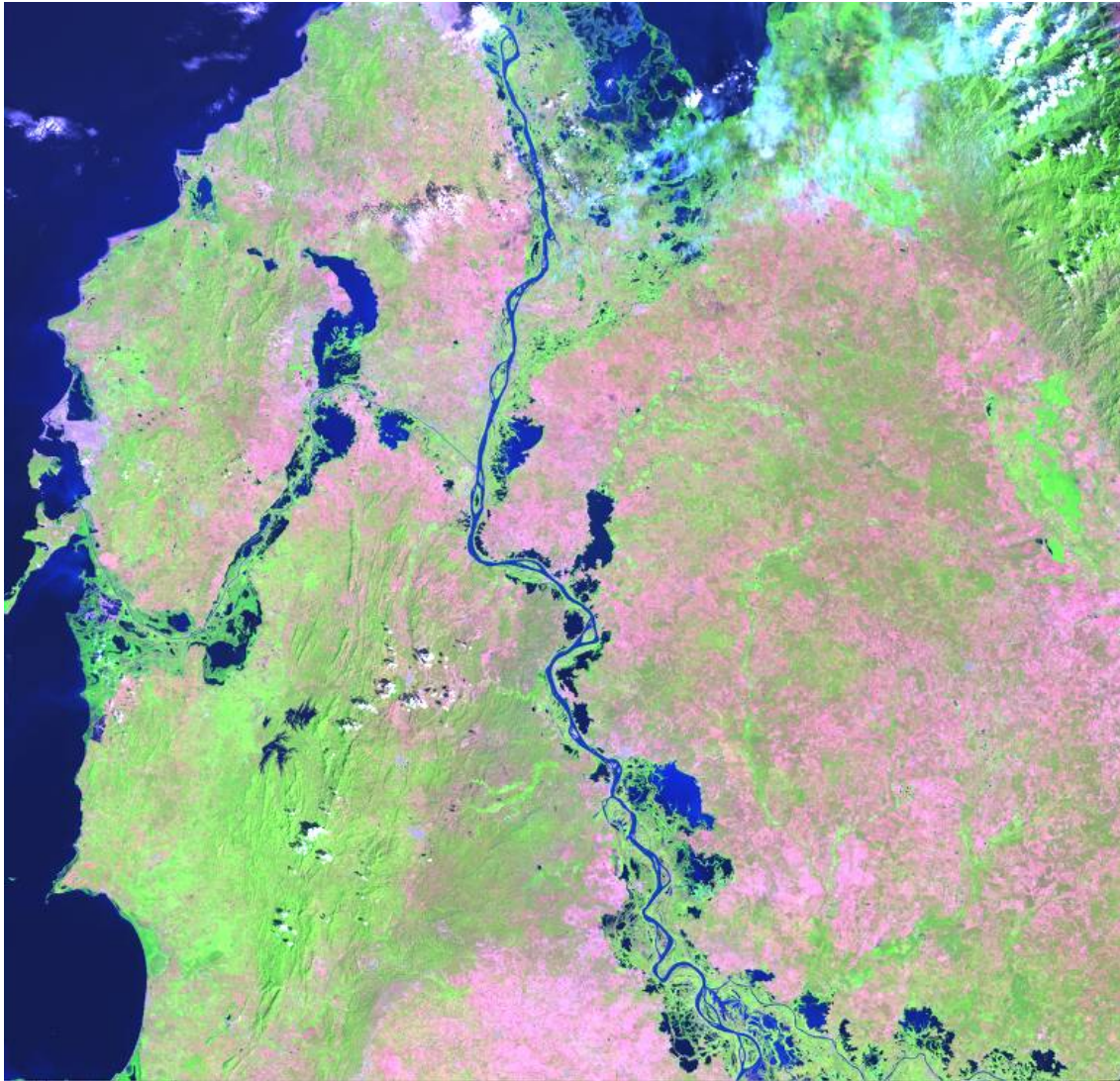


IMAGE ACQUIRED JANUARY 12, 2001

Magdalena River Delta, Colombia, South America

LOCATION	LAT. 10°07'N, LONG. 74°49'W
LANDMASS DRAINED	SOUTH AMERICA
BASIN OF DEPOSITION	CARIBBEAN SEA (ATLANTIC OCEAN)
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	20°C-25°C,
TIDAL AMPLITUDE	0.6 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 75,000M ³ /S, SEDIMENT 220X10 ⁶ TONS/YR,
DRAINAGE BASIN AREA	241,000 KM ²
ID	7009053000101250, PATH 9 ROW 53



IMAGE ACQUIRED FEBRUARY 15, 2002

Mahanadi River Delta, India, Asia

LOCATION	LAT. 20°13'N, LONG. 86°34'E
LAND MASS DRAINED	INDIAN SUBCONTINENT
BASIN OF DEPOSITION	SOUTH CHINA SEA
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	20°C TO 35°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7139046000204650, PATH 139 ROW 46



IMAGE ACQUIRED NOVEMBER 6, 1999

Mahanadi River Delta, India, Asia

LOCATION	LAT. 20°13'N, LONG. 86°34'E
LAND MASS DRAINED	INDIAN SUBCONTINENT
BASIN OF DEPOSITION	BAY OF BENGAL
CLIMATE	TROPICAL SAVANNA (Aw)
TYPE OF TIDE	SEMIDIURNAL
AIR TEMP RANGE	20°C TO 35°C
ID	7139046009931050, PATH 139ROW 46



IMAGE ACQUIRED JUNE 25, 2001

Mississippi River Delta, USA, North America

LOCATION	LAT. 28°52'N, LONG. 88°14'W
LANDMASS DRAINED:	NORTH AMERICA (USA)
BASIN OF DEPOSITION	GULF OF MEXICO
CLIMATE	HUMID SUBTROPICAL (Caf),
AIR TEMP RANGE	9.2°C TO 40.4°C,
TIDAL AMPLITUDE	0.50 M,
TYPE	DIURNAL
MEAN WAVE HEIGHT	VERY LOW
DISCHARGE	WATER 172,000 M ³ /S; SEDIMENT 349x10 ⁶ TONS/YR
DRAINAGE BASIN AREA	3.344x10 ⁶ KM ²
ID	7021040000117651, PATH 21 ROW 40

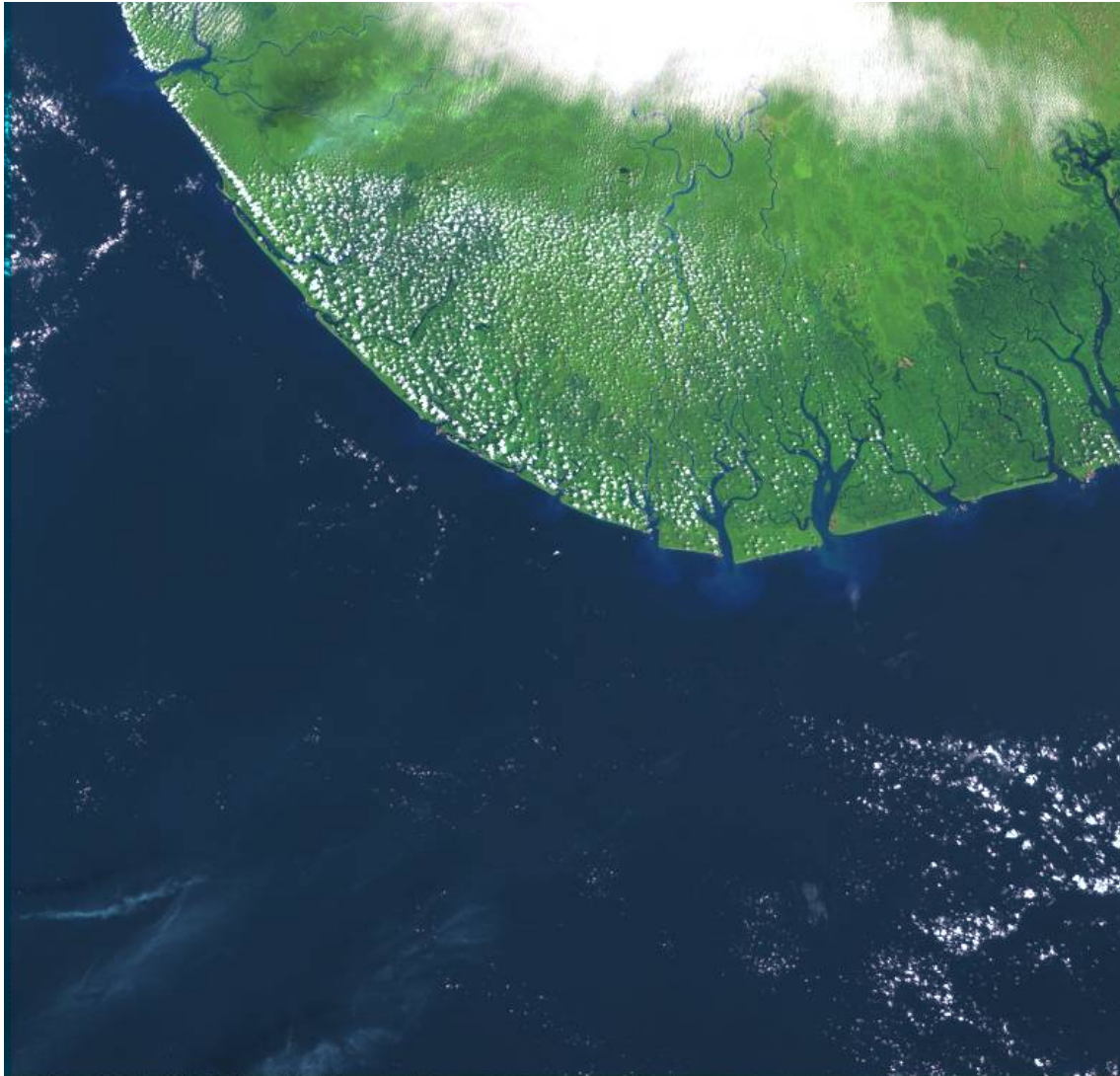


IMAGE ACQUIRED JANUARY 9, 2001

Niger River Delta, Nigeria, Africa

LOCATION	LAT. 4°20'N, LONG. 5°50'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	20.9°C TO 35°C,
TIDAL AMPLITUDE	2.2 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	MODERATE
DISCHARGE	WATER 61000M ³ /S SEDIMENT; 40x10 ⁶ TONS/YR
DRAINAGE BASIN AREA	1.112x10 ⁶ KM ²
ID	7189057000100950, PATH 189 ROW 57

A24-a



IMAGE ACQUIRED DECEMBER 17, 2000

Niger River Delta, Nigeria, Africa

LOCATION	LAT. 4°20'N, LONG. 7°23'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	20.9°C TO 35°C,
TIDAL AMPLITUDE	2.2 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	MODERATE
DISCHARGE	WATER 61000M ³ /S SEDIMENT; 40x10 ⁶ TONS/YR
DRAINAGE BASIN AREA	1.112x10 ⁶ KM ²
ID	7188057000035250, PATH 188 ROW 57

A24-b



IMAGE ACQUIRED DECEMBER 13, 1999

Niger River Delta, Nigeria, Africa

LOCATION	LAT. 5°47'N, LONG. 4°34'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	20.9°C TO 35°C,
TIDAL AMPLITUDE	2.2 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	MODERATE
DISCHARGE	WATER 61000M ³ /S SEDIMENT; 40x10 ⁶ TONS/YR
DRAINAGE BASIN AREA	1.112x10 ⁶ KM ²
ID	7190056009934750, PATH 190 ROW 56

A24-c

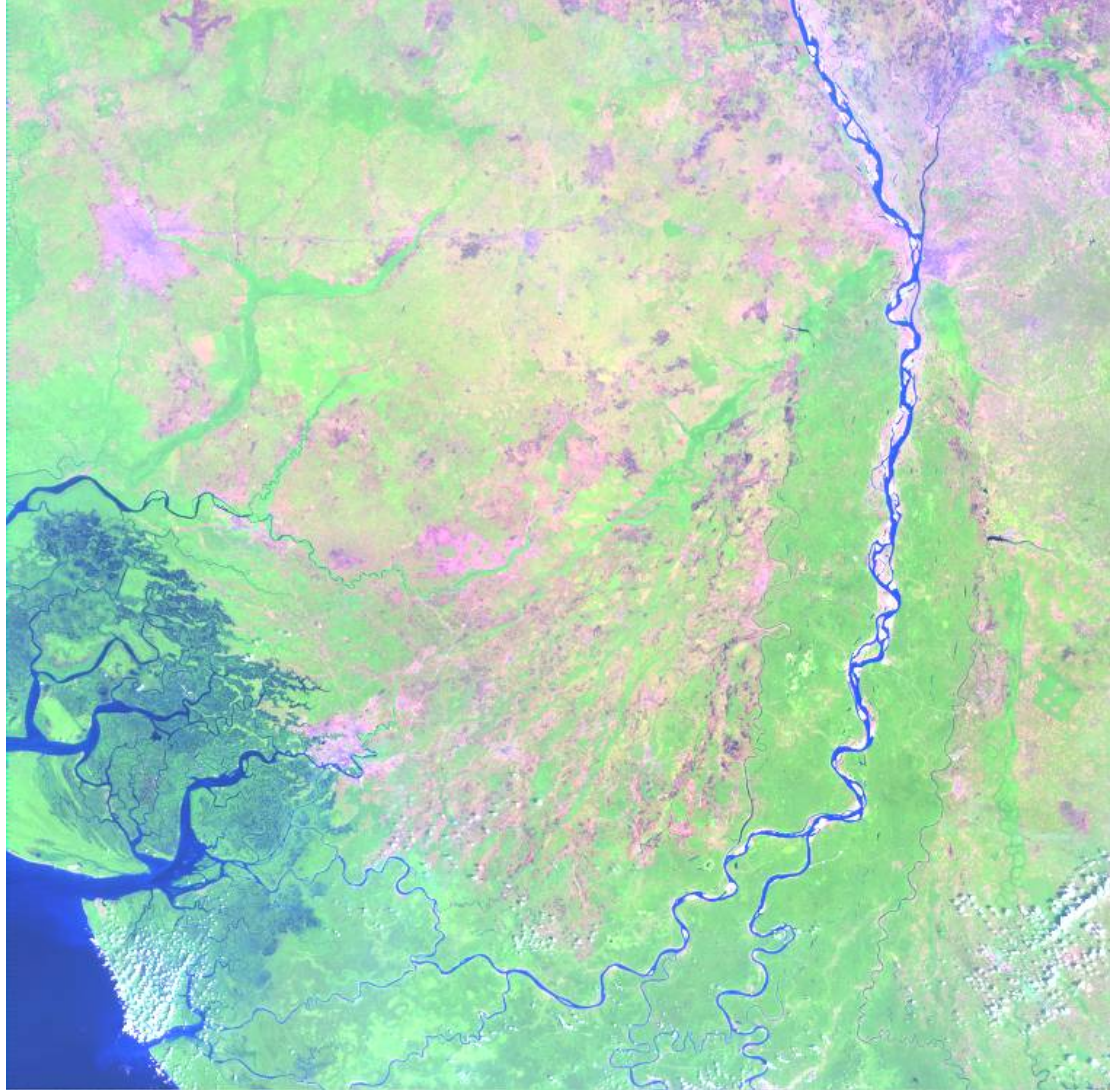


IMAGE ACQUIRED JANUARY 28, 2002

Niger River Delta, Nigeria, Africa

LOCATION	LAT. 5°47'N, LONG. 6°08'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Am)
AIR TEMP RANGE	20.9°C TO 35°C,
TIDAL AMPLITUDE	2.2 M
TYPE	SEMIDIURNAL
MEAN WAVE HEIGHT	MODERATE
DISCHARGE	WATER 61000M ³ /S SEDIMENT; 40x10 ⁶ TONS/YR
DRAINAGE BASIN AREA	1.112x10 ⁶ KM ²
ID	7189056000202850, PATH 189 ROW 56

A24-d



IMAGE ACQUIRED MAY 29, 2001

Nile River Delta, Egypt, Africa

LOCATION	LAT. 31°44'N, LONG. 30°42'E
LANDMASS DRAINED	AFRICA.
BASIN OF DEPOSITION	MEDITERRANEAN SEA
CLIMATE	DESERT (Bwh)
AIR TEMP RANGE	14°C TO 37°C,
TIDAL AMPLITUDE	0.4 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 28000M ³ /S, SEDIMENT 111X106 TONS/YR,
DRAINAGE BASIN AREA	2.715X10 ⁶ KM ²
ID	7177038000114950, PATH 177 ROW 38

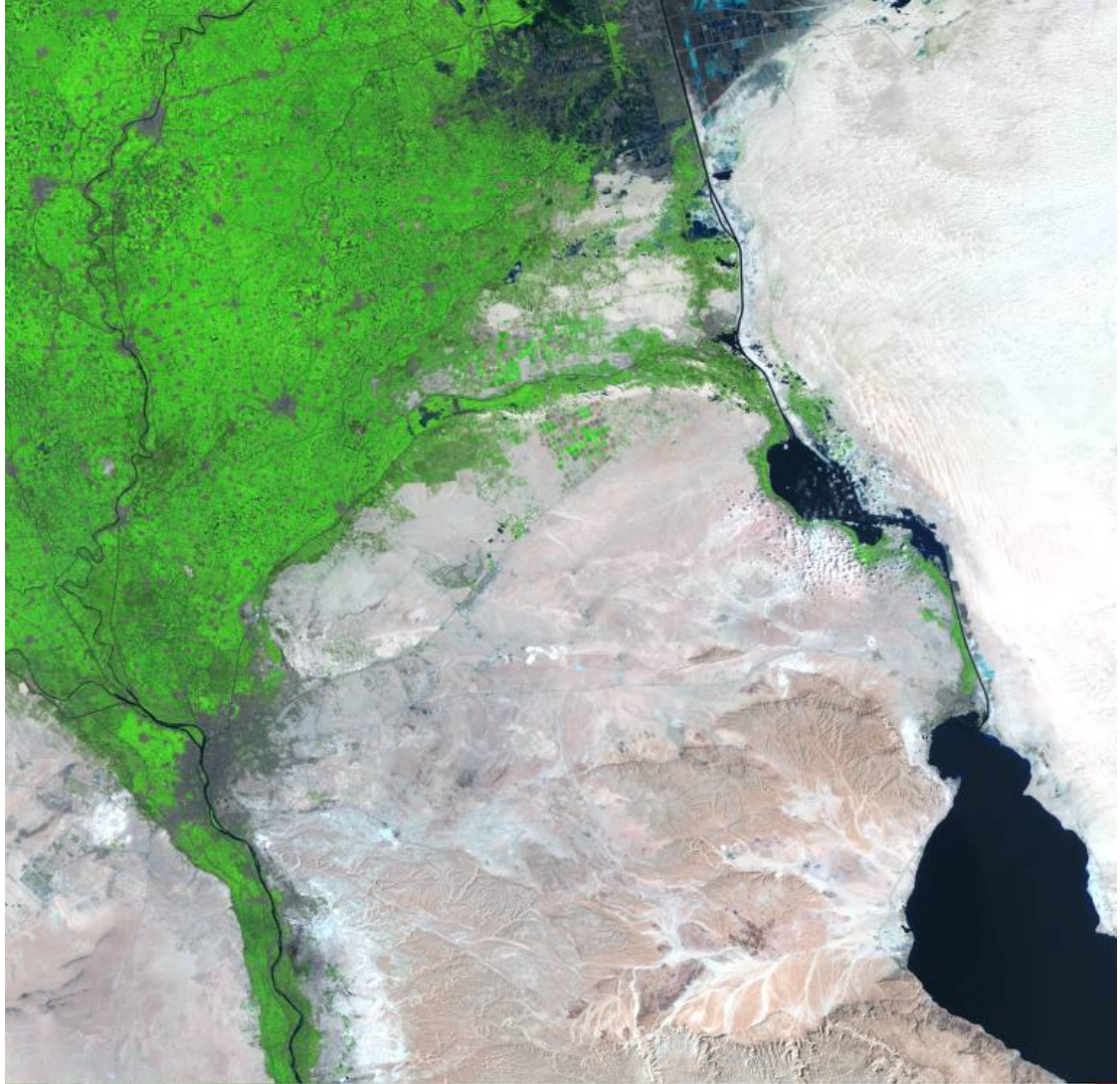


IMAGE ACQUIRED MARCH 19, 2001

Nile River Delta, Egypt, Africa

LOCATION	LAT. 30°18'N, LONG. 31°54'E
LANDMASS DRAINED	AFRICA.
BASIN OF DEPOSITION	MEDITERRANEAN SEA
CLIMATE	DESERT (Bwh)
AIR TEMP RANGE	14°C TO 37°C,
TIDAL AMPLITUDE	0.4 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 28000M ³ /S, SEDIMENT 111X106 TONS/YR,
DRAINAGE BASIN AREA	2.715X10 ⁶ KM ²
ID	7176039000107850, PATH 176 ROW 39

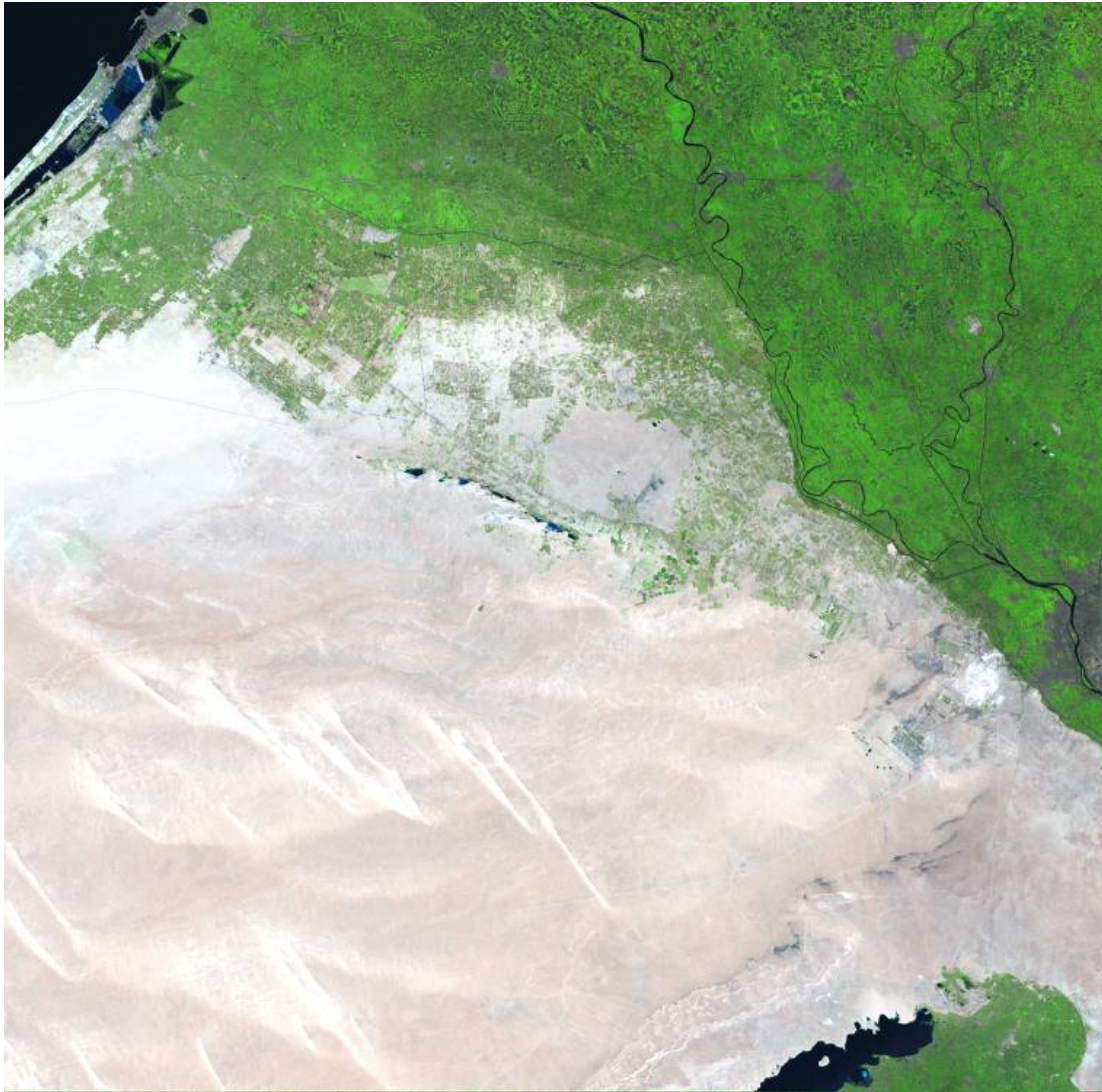


IMAGE ACQUIRED APRIL 11, 2001

Nile River Delta, Egypt, Africa

LOCATION	LAT. 30°18'N, LONG. 30°20'E
LANDMASS DRAINED	AFRICA.
BASIN OF DEPOSITION	MEDITERRANEAN SEA
CLIMATE	DESERT (Bwh)
AIR TEMP RANGE	14°C TO 37°C,
TIDAL AMPLITUDE	0.4 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 28000M ³ /S, SEDIMENT 111X106 TONS/YR,
DRAINAGE BASIN AREA	2.715X10 ⁶ KM ²
ID	7177039000110150, PATH 177 ROW 39

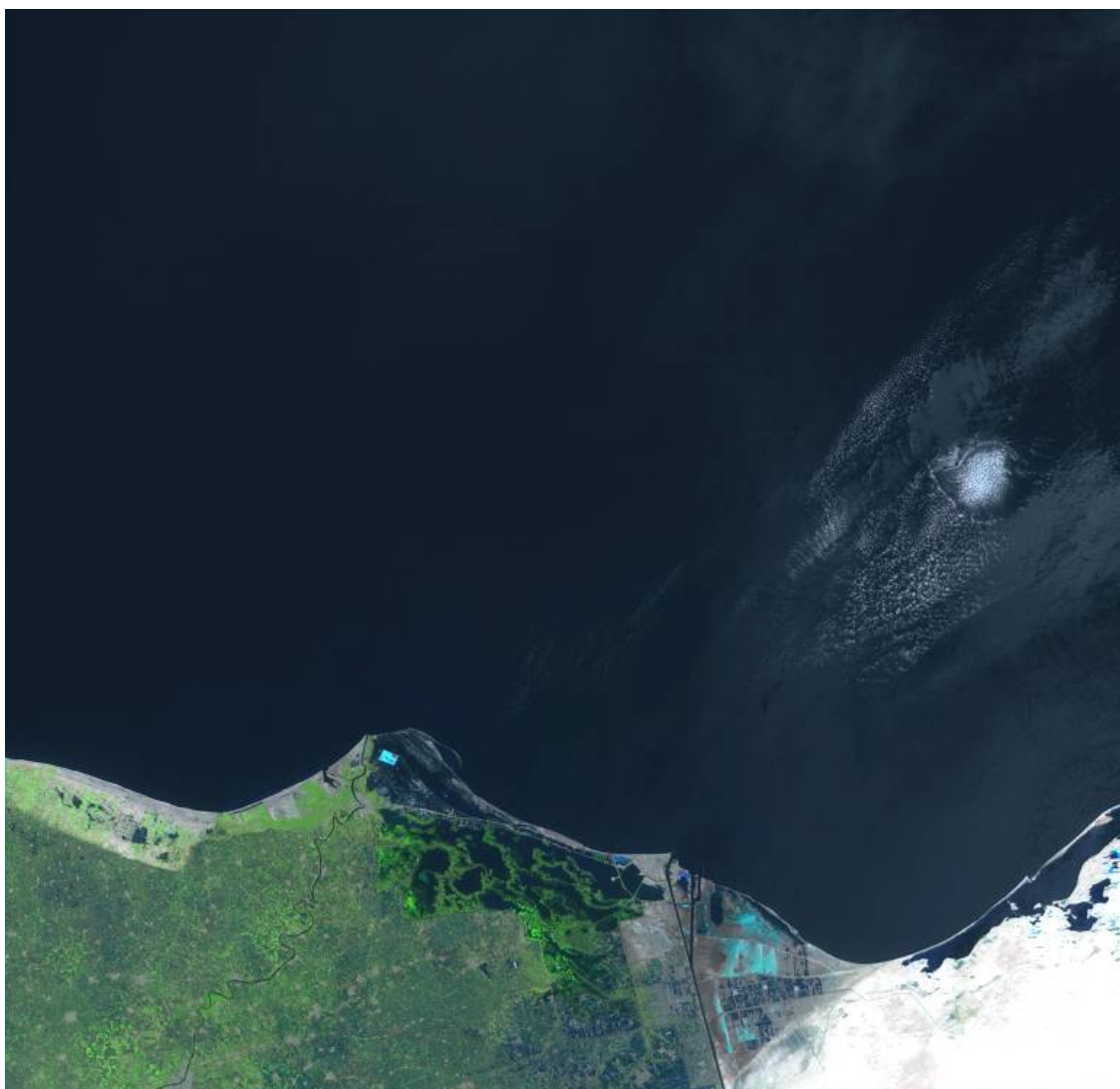


IMAGE ACQUIRED MAY 22, 2001

Nile River Delta, Egypt, Africa

LOCATION	LAT. 31°44'N, LONG. 30°42'E
LANDMASS DRAINED	AFRICA.
BASIN OF DEPOSITION	MEDITERRANEAN SEA
CLIMATE	DESERT (Bwh)
AIR TEMP RANGE	14°C TO 37°C,
TIDAL AMPLITUDE	0.4 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 28000M ³ /S, SEDIMENT 111X106 TONS/YR,
DRAINAGE BASIN AREA	2.715X10 ⁶ KM ²
ID	7176038000114250, PATH 176 ROW 38



IMAGE ACQUIRED OCTOBER 7, 2002

Orange River delta, South Africa, Africa

LOCATION	LAT. 28°52'S, LONG. 16°53'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	MEDITERRANEAN (Csb)
AIR TEMP RANGE	13°C - 26°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7177080000228050, PATH 177 ROW 80



IMAGE ACQUIRED MARCH 19, 2002

Ord River delta, Australia

LOCATION	LAT. 14°27'S, LONG. 128°30'E
LANDMASS DRAINED	AUSTRALIA
BASIN OF DEPOSITION	PACIFIC OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	25°C - 35°C,
TIDAL AMPLITUDE	3.8 M
TYPE	SEMIDIURNAL
DISCHARGE	SEDIMENT 22X10 ⁶ TONS/YR,
ID	7107070000207851, PATH 107 ROW 70

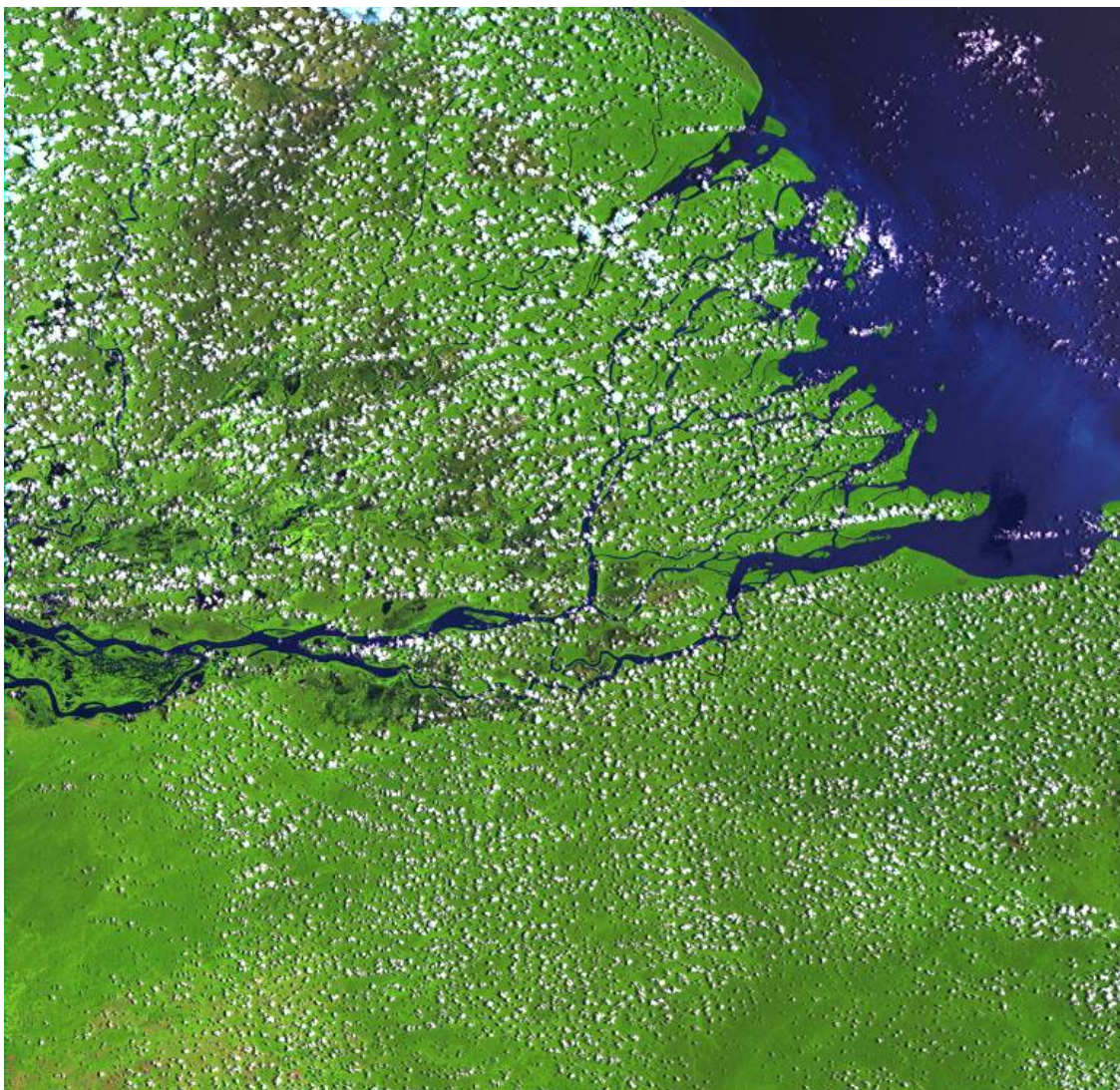


IMAGE ACQUIRED SEPTEMBER 13, 2002

Orinoco River Delta, Venezuela, South America

LOCATION	LAT. 8°40'N, LONG. 61°15'W
LANDMASS DRAINED	SOUTH AMERICA
BASIN OF DEPOSITION	CARIBBEAN SEA
CLIMATE	TROPICAL RAINFOREST (Af)
AIR TEMP RANGE	25°C – 29°C,
TIDAL AMPLITUDE	2.2 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 170 000 M ³ /S SEDIMENT 210X10 ⁶ TONS/YR,
ID	7233054000225650, PATH 233 ROW 54



IMAGE ACQUIRED OCTOBER 16, 1999

Paraiba Do Sol River Delta, Brazil, South America

LOCATION	LAT. 21°40'S, LONG. 41°34'W
LANDMASS DRAINED	BRAZIL, SOUTH AMERICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL SAVANNA (Af)
TYPE	MIXED
AIR TEMP RANGE	22°C TO 27.9°C
ID	7216075009928950, PATH 216 ROW 75



IMAGE ACQUIRED JUNE 29, 2000

Pechora River Delta, Russia, Asia.

LOCATION	LAT. 68°16'N, LONG. 52°20'E
LANDMASS DRAINED	RUSSIA, EUROPE
BASIN OF DEPOSITION	BARENTS SEA
CLIMATE	TUNDRA (ET)
AIR TEMP RANGE	-27.4°C – 9.2°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7175012000018150, PATH 175 ROW 12

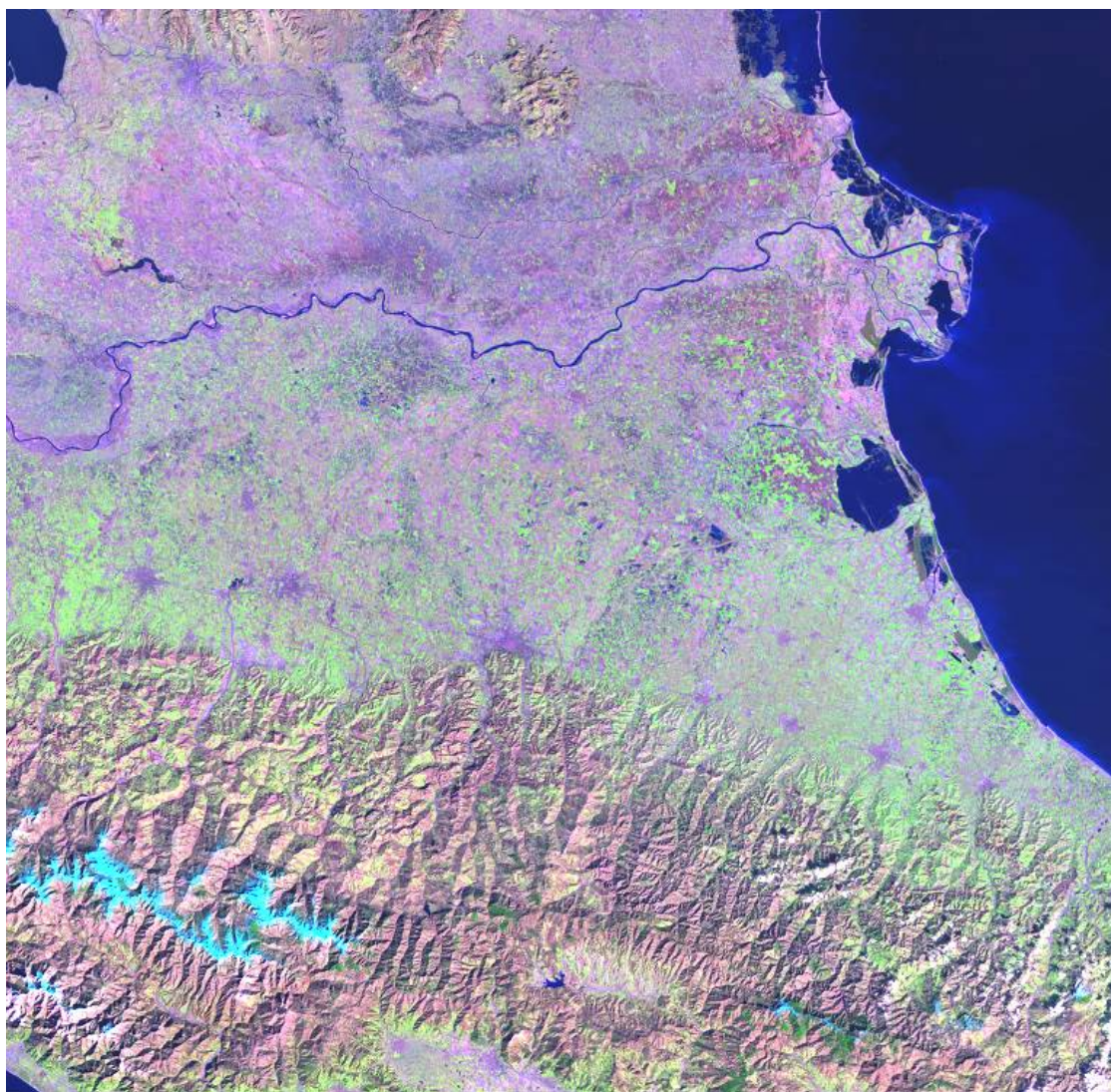


IMAGE ACQUIRED FEBRUARY 15, 2001

Po River Delta, Italy, Europe

LOCATION	LAT. 44°36'N, LONG. 11°29'E
LANDMASS DRAINED	ITALY, EUROPE.
BASIN OF DEPOSITION	ADRIATIC SEA
CLIMATE	HUMID SUBTROPICAL (Caf)
AIR TEMP RANGE	-0.4°C TO 22.8°C
TIDAL AMPLITUDE	0.7 M
TYPE	SEMIDIURNAL
DISCHARGE	SEDIMENT 15X10 ⁶ TONS/YR
DRAINAGE BASIN AREA	7.17X10 ⁴ KM ²
ID	7192029000104651, PATH 192 ROW 29



IMAGE ACQUIRED MAY 7, 2001

Pungue River delta, Mozambique, Africa

LOCATION	LAT. 20°13'S, LONG. 34°27'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	INDIAN OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	25°C – 40.5°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7167074000112750, PATH 167 ROW 74

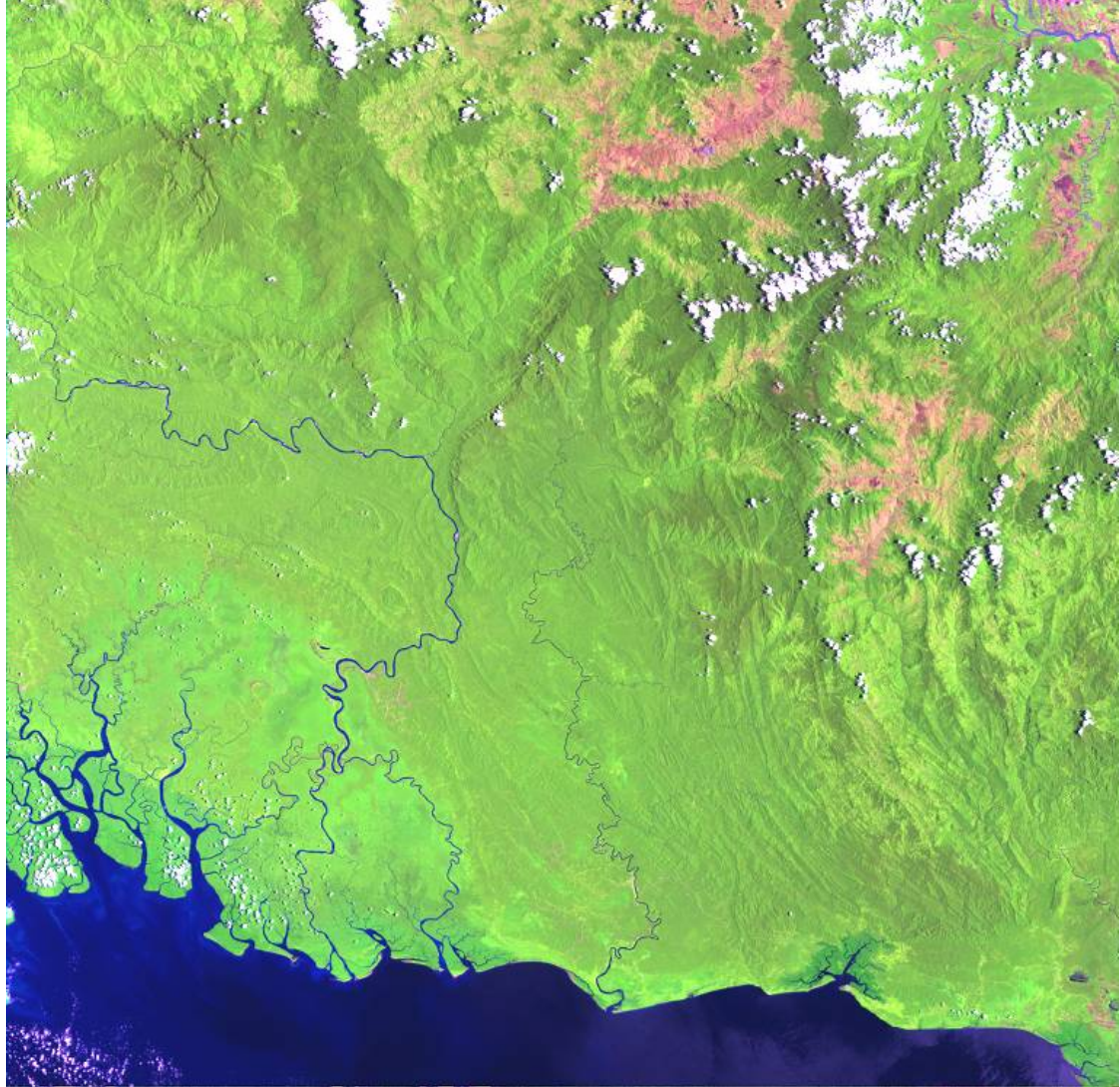


IMAGE ACQUIRED OCTOBER 20, 2001

Purari River delta, Papua New Guinea, Asia

LOCATION	LAT. 7°13'S, LONG. 145°29'E
LANDMASS DRAINED	PAPUA NEW GUINEA
BASIN OF DEPOSITION	CORAL SEA, PACIFIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Af)
AIR TEMP RANGE	22°C – 35°C,
TYPE OF TIDE	MIXED
ID	7097065000129350, PATH 97 ROW 65



IMAGE ACQUIRED NOVEMBER 16, 2001

Red River Delta, Vietnam, Asia.

LOCATION	LAT. 20°13'N, LONG. 106°39'E
LANDMASS DRAINED	ASIA
BASIN OF DEPOSITION	GULF OF TONKIN, SOUTH CHINA SEA
CLIMATE	HUMID SUBTROPICAL (Caf)
AIR TEMP RANGE	3°C – 40.4°C,
TYPE OF TIDE	DIURNAL
ID	7126046000132050, PATH 126 ROW 46



IMAGE ACQUIRED JUNE 16, 2000

Rhône River Delta, France, Europe

LOCATION	LAT. 43°11'N, LONG. 04°46'E
LANDMASS DRAINED	FRANCE, EUROPE
BASIN OF DEPOSITION	GULF OF LION, MEDITERRANEAN SEA
CLIMATE	MEDITERRANEAN (Cs)
AIR TEMP RANGE	6.4°C – 28°C,
TIDAL AMPLITUDE	0.2 M
TYPE	MIXED
DISCHARGE	WATER 17,000 M ³ /S, SEDIMENT 10X10 ⁶ TONS/YR
ID	7196030000016850, PATH 196 ROW 30



IMAGE ACQUIRED MARCH 28, 2001

Rio Grijalva River Delta, Mexico, North America

LOCATION	LAT. 18°47'N, LONG. 92°57'W
LANDMASS DRAINED	MEXICO, NORTH AMERICA
BASIN OF DEPOSITION	GULF OF MEXICO
CLIMATE	SUBTROPICAL (Bshs)
TYPE OF TIDE	MIXED
AIR TEMP RANGE	9.3°C TO 40.4°C
ID	7022047000108750, PATH 22 ROW 47

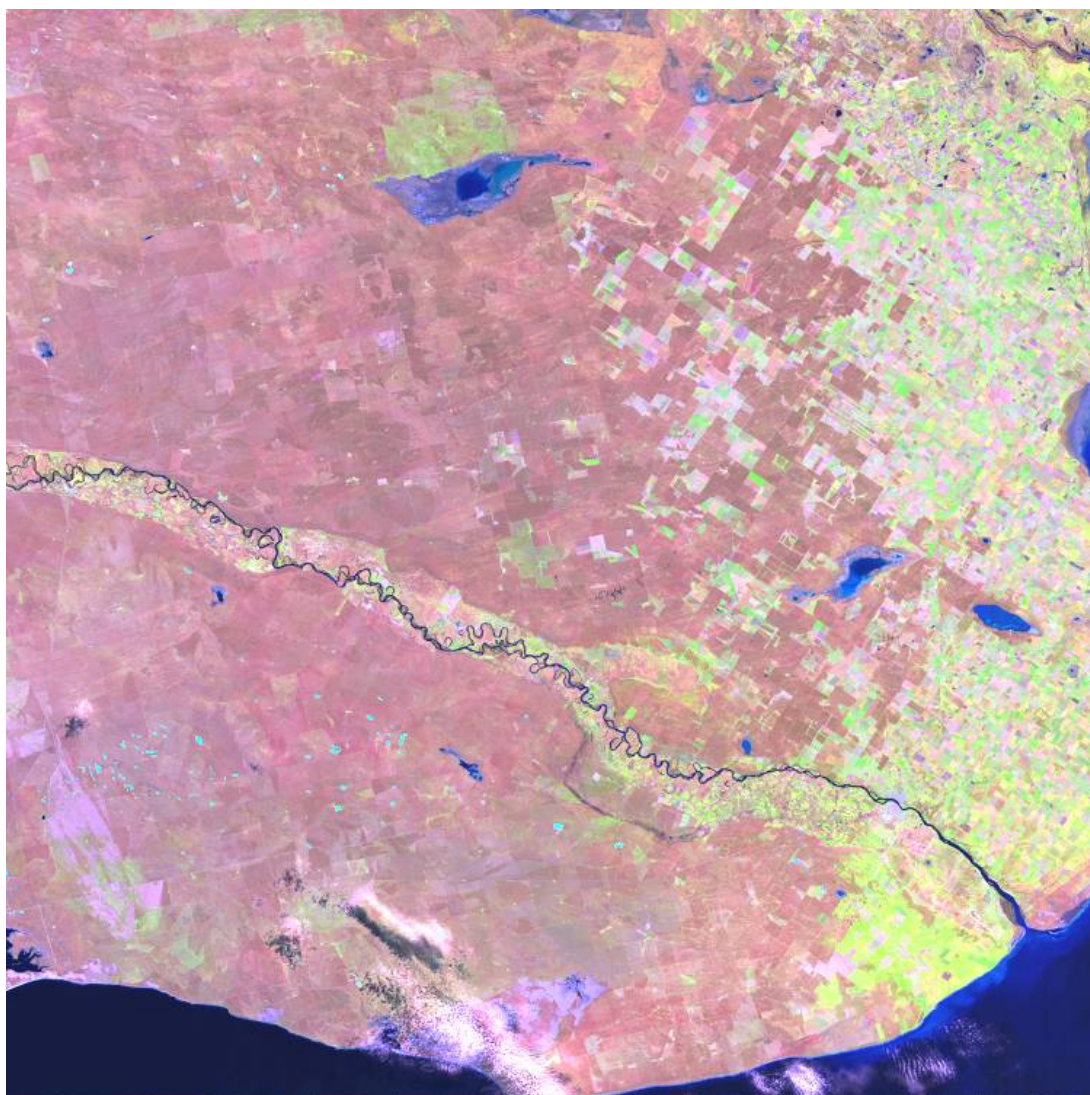


IMAGE ACQUIRED SEPTEMBER 19, 2002

Rio Negro River delta, Argentina, South America

LOCATION	LAT. 40°20'S, LONG. 63°34'W
LANDMASS DRAINED	SOUTH AMERICA
BASIN OF DEPOSITION	ATLANTIC
CLIMATE	SUBTROPICAL STEPPE (BS _{hw})
AIR TEMP RANGE	16°C – 26°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7227088000226250, PATH 227 ROW 88

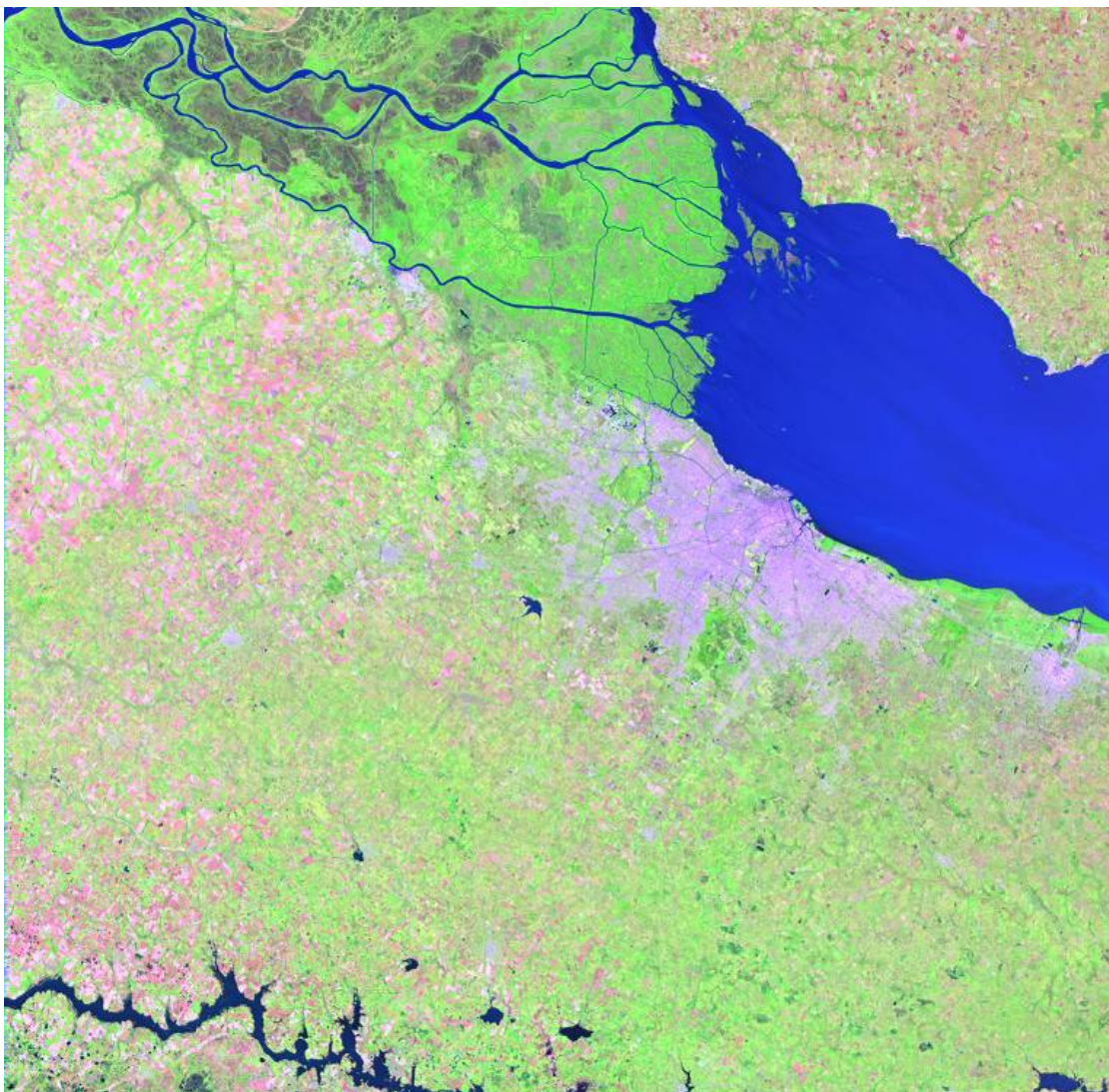


IMAGE ACQUIRED DECEMBER 23, 2001

Rio Parana River Delta, Argentina, South America.

LOCATION	LAT. 34°36'S, LONG. 58°48'W
LANDMASS DRAINED	SOUTH AMERICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	HUMID SUBTROPICAL (Caf)
AIR TEMP RANGE	10°C – 26°C,
TIDAL AMPLITUDE	1 M
TYPE	MIXED
DISCHARGE	WATER 149 000 M ³ /S,
ID	7225084000135750, PATH 225 ROW 84

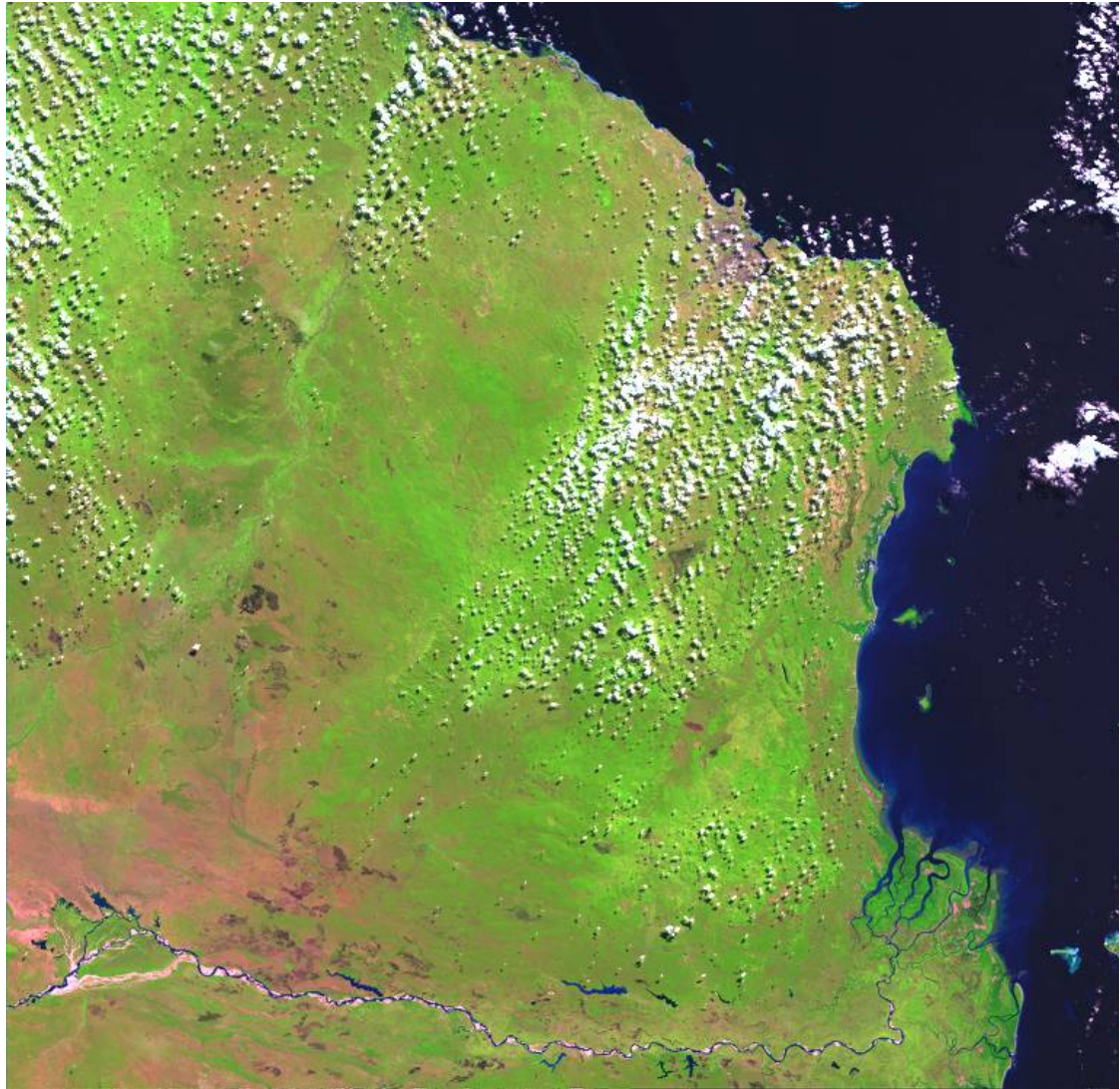


IMAGE ACQUIRED JUNE 30, 2000

Rufiji River delta, Tanzania, Africa

LOCATION	LAT. 07°13'S, LONG. 38°54'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	INDIAN OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	26°C – 35°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7166065000018250, PATH 166 ROW 65



IMAGE ACQUIRED OCTOBER 23, 2001

Sao Francisco River Delta, Brazil, South America.

LOCATION	LAT. 10°07'S, LONG. 35°53'W
LANDMASS DRAINED	SOUTH AMERICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	23°C – 28°C,
TIDAL AMPLITUDE	2.5 M
TYPE	SEMIDIURNAL
DELTA AREA	40 000 KM ²
DISCHARGE	WATER 28 000 M ³ /S SEDIMENT 6X10 ⁶ TONS/YR,
ID	7214067000129650, PATH 214 ROW 67

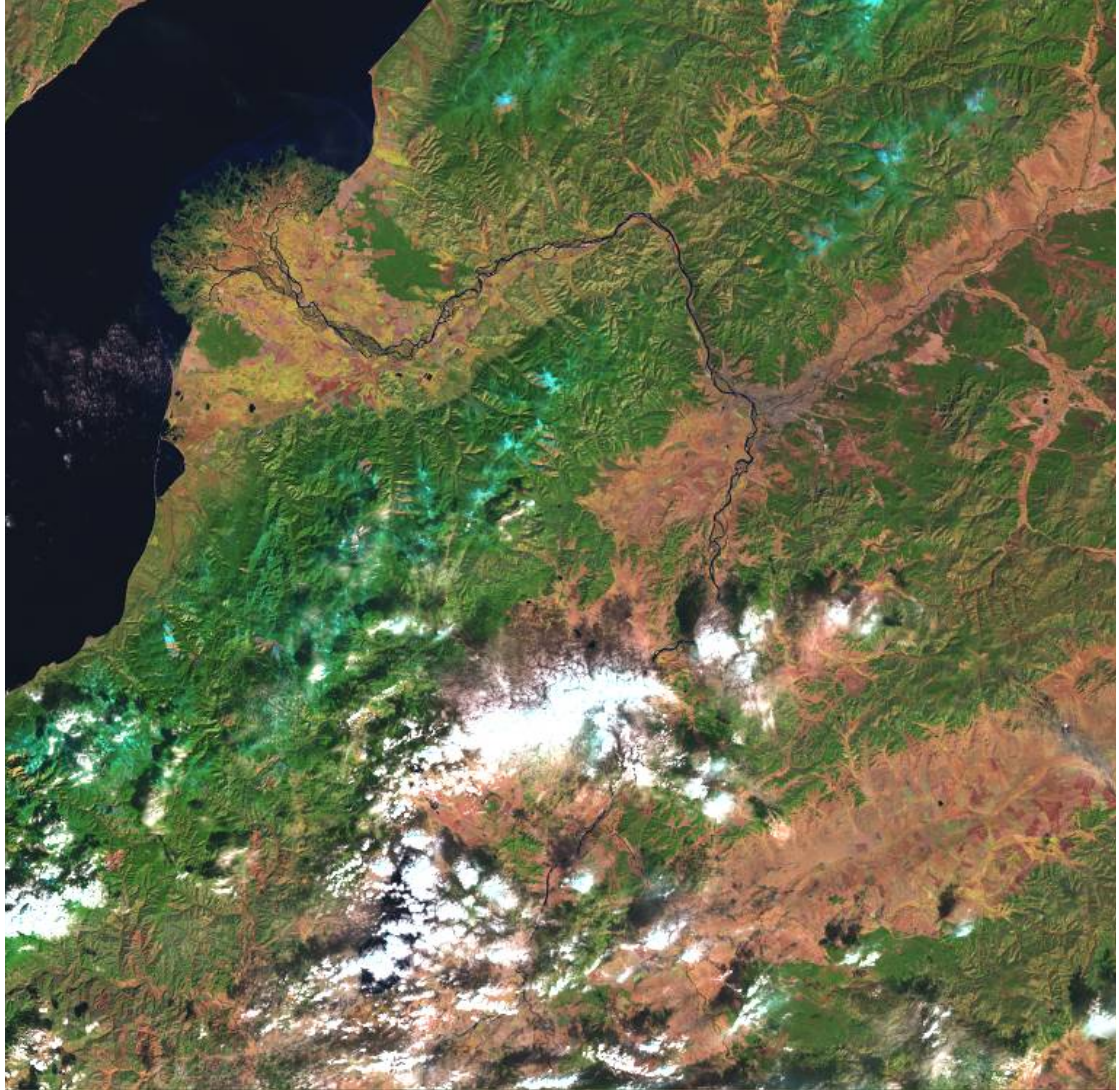


IMAGE ACQUIRED OCTOBER 4, 1999

Selenga River Delta, Siberian Arctic, Asia

LOCATION	LAT. 51°41'N, LONG. 106°59'E
LANDMASS DRAINED	SIBERIA, RUSSIA.
BASIN OF DEPOSITION	LAKE BAIKAL,
CLIMATE	SUBARCTIC (Dcf)
AIR TEMP RANGE	-35°C TO 10°C,
ID	7132024009927750, PATH 132ROW 24



IMAGE ACQUIRED JANUARY 15, 2003

Senegal River Delta, Senegal, Africa.

LOCATION	LAT. 15°54'N, LONG. 16°22'W
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL STEPPE (BS _{hw})
AIR TEMP RANGE	22°C - 37°C,
TIDAL AMPLITUDE	1.2 M
TYPE	SEMIDIURNAL
ID	7205049000301550, PATH 205 ROW 49



IMAGE ACQUIRED FEBRUARY 2, 2001

Shatt Al-Arab River Delta, Iraq, Asia

LOCATION	LAT. 30°18'N, LONG. 48°53'E
LANDMASS DRAINED	ASIA (IRAQ).
BASIN OF DEPOSITION	PERSIAN GULF
CLIMATE	SUBTROPICAL STEPPE (BSH)
AIR TEMP RANGE	9.3°C TO 40.4°C
TIDAL AMPLITUDE	2.8 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 14,000M ³ /S
DRAINAGE BASIN AREA	1.114X10 ⁶ KM ²
ID	7165039000103350, PATH 165 ROW 39

A43-a

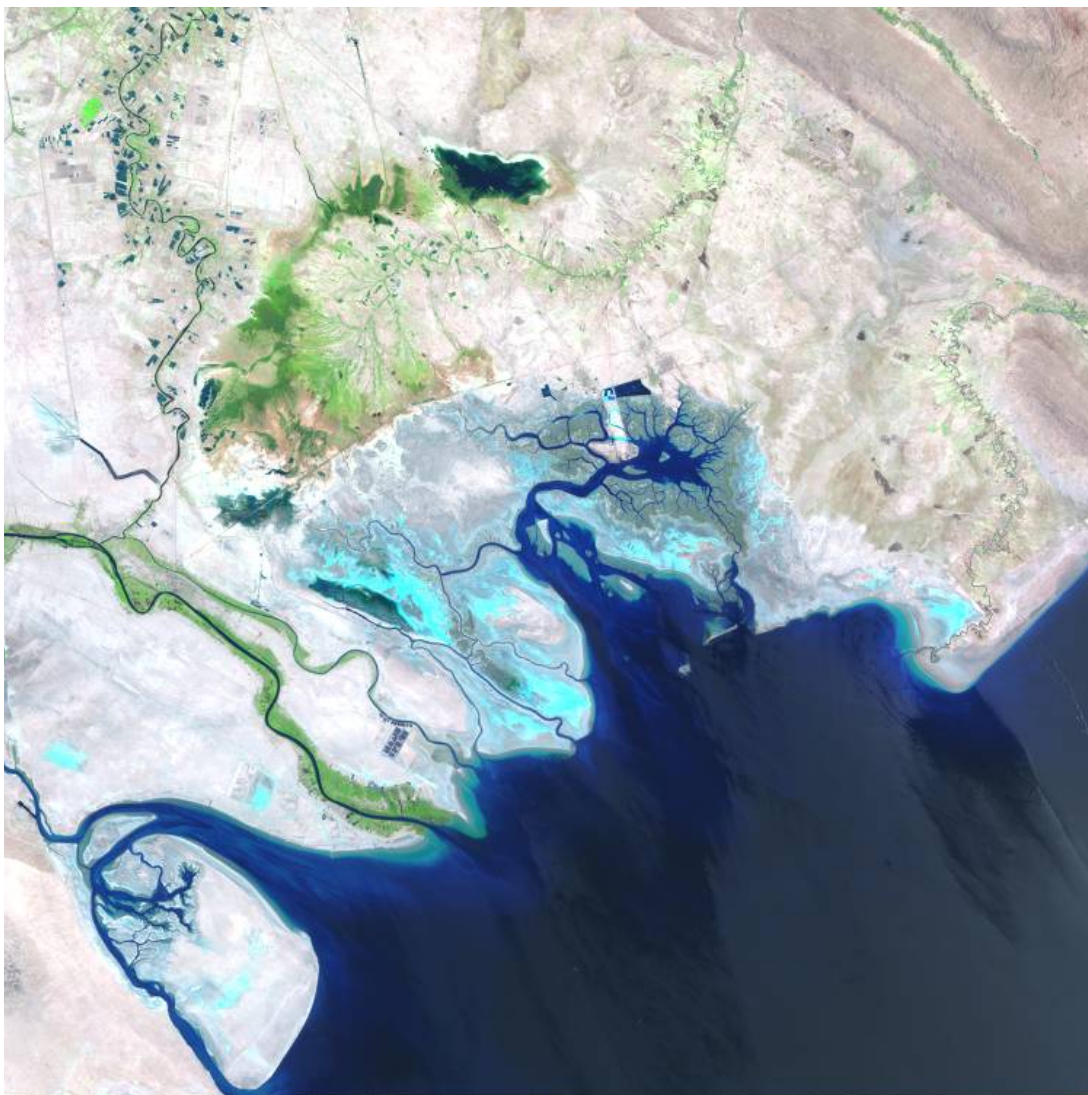


IMAGE ACQUIRED JULY 7, 1999

Shatt Al-Arab River Delta, Iraq, Asia

LOCATION	LAT. 30°18'N, LONG. 48°54'E
LANDMASS DRAINED	ASIA (IRAQ).
BASIN OF DEPOSITION	PERSIAN GULF
CLIMATE	SUBTROPICAL STEPPE (BSh)
AIR TEMP RANGE	9.3°C TO 40.4°C,
TIDAL AMPLITUDE	2.8 M
TYPE	SEMIDIURNAL
DISCHARGE	WATER 14,000M ³ /S
DRAINAGE BASIN AREA	1.114X10 ⁶ KM ²
ID	7165039009918850, PATH 165 ROW 39

A43-b

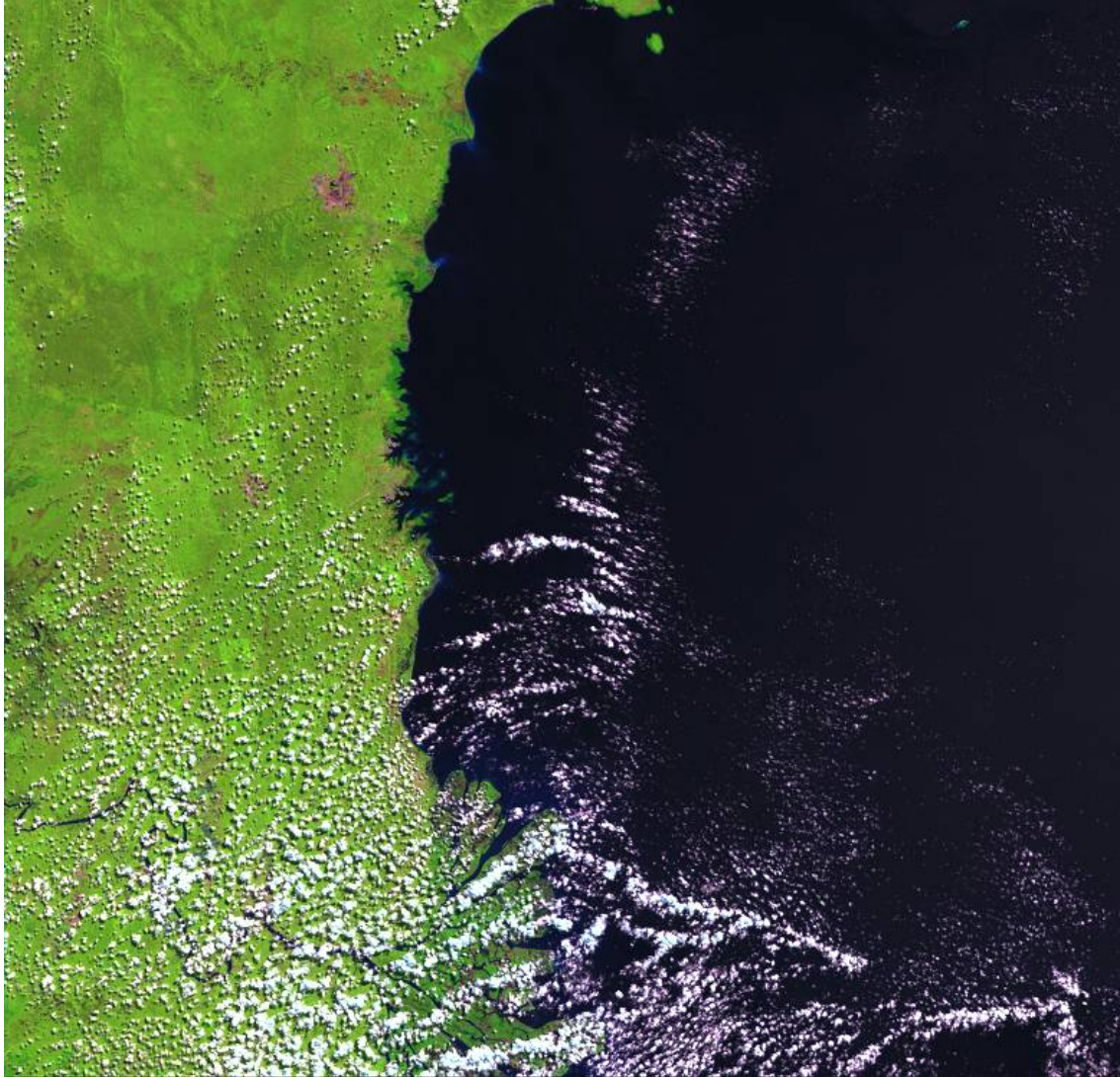


IMAGE ACQUIRED MAY 15, 2000

Sungai Mahakam River delta, Indonesia, Asia

LOCATION	LAT. 00°00'N, LONG. 117°42'E
LANDMASS DRAINED	INDONESIA
BASIN OF DEPOSITION	PACIFIC OCEAN
CLIMATE	TROPICAL RAINFOREST (Af)
AIR TEMP RANGE	28°C – 40.4°C,
TYPE OF TIDE	MIXED
ID	7116060000013650, PATH 116 ROW 60



IMAGE ACQUIRED JANUARY 22, 2000

Tana River delta, Kenya, Africa

LOCATION	LAT. 02°53'S, LONG. 39°50'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	INDIAN OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
AIR TEMP RANGE	26°C – 35°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7166062000002250, PATH 166 ROW 62



IMAGE ACQUIRED JULY 16, 2000

Tone-gawa River Delta, Japan, Asia

LOCATION:	LAT. 36°02'N, LONG. 140°01'E
LANDMASS DRAINED:	WESTERN HONSHU
BASIN OF DEPOSITION	NORTH PACIFIC,
CLIMATE	HUMID SUBTROPICAL (Caf),
AIR TEMP RANGE	-4°C TO -25.9°C,
TIDAL AMPLITUDE	-0.8 – 1.6 M
TYPE	MIXED
ID	7107035000032950, PATH 107 ROW 35



IMAGE ACQUIRED OCTOBER 5, 2001

Volga River Delta, Russia, Asia

LOCATION	LAT. 46°01'N, LONG. 49°02'E
LANDMASS DRAINED	RUSSIA
BASIN OF DEPOSITION	CASPIAN SEA
CLIMATE	DESERT (Bwk)
AIR TEMP RANGE	-0.4°C TO 16.5°C
ID	7168028000127850, PATH 168 ROW 28

A47-a

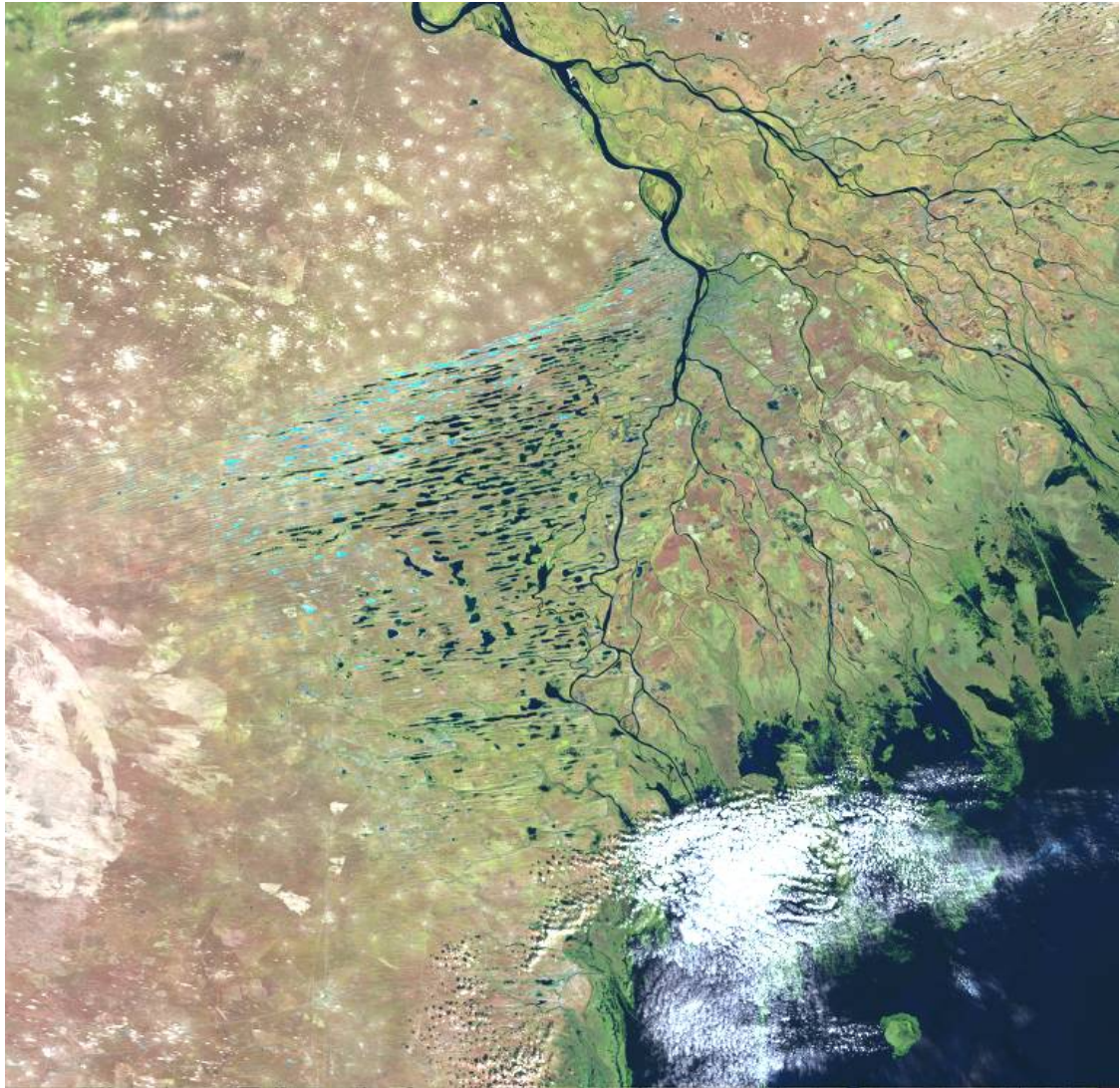


IMAGE ACQUIRED OCTOBER 25, 2000

Volga River Delta, Russia, Asia

LOCATION	LAT. 46°01'N, LONG. 47°34'E
LANDMASS DRAINED	RUSSIA
BASIN OF DEPOSITION	CASPIAN SEA
CLIMATE	DESERT (BWk)
AIR TEMP RANGE	-0.4°C TO 16.5°C
ID	7169028000029950, PATH 169 ROW 28



IMAGE ACQUIRED MAY 11, 2002

Wisla River delta, Poland, Europe

LOCATION	LAT. 54°30'N, LONG. 18°41'E
LANDMASS DRAINED	EUROPE
BASIN OF DEPOSITION	BALTIC SEA
CLIMATE	MARINE WEST COAST (Cbf)
AIR TEMP RANGE	-1.1°C – 25°C,
TYPE OF TIDE	SEMIDIURNAL
ID	7190022000213150, PATH 190 ROW 22



IMAGE ACQUIRED JULY 3, 2001

Yangtze River delta, China, Asia

LOCATION	LAT. 31°44'N, LONG. 121°52'E
LANDMASS DRAINED	CHINA, ASIA
BASIN OF DEPOSITION	EAST CHINA SEA, PACIFIC OCEAN
CLIMATE	HUMID SUBTROPICAL (Caf)
AIR TEMP RANGE	-0.4°C – 30°C,
TIDAL AMPLITUDE	3.8 M
TYPE	SEMIDIURNAL
DELTA AREA	40 000 KM ²
DISCHARGE	SEDIMENT 470X10 ⁶ TONS/YR,
ID	7118038000118450, PATH118 ROW 38



IMAGE ACQUIRED FEBRUARY 28, 2000

Yellow River (Huang He) Delta, China, Asia.

LOCATION	LAT. 37°28'N, LONG. 118°53'E
LANDMASS DRAINED	ASIA
BASIN OF DEPOSITION	PACIFIC OCEAN
CLIMATE	MEDITERRANEAN (Da)
AIR TEMP RANGE	-0.5°C - 40.4°C,
TIDAL AMPLITUDE	0.8 M
TYPE	MIXED
DISCHARGE	SEDIMENT 108×10^7 TONS/YR,
DRAINAGE BASIN AREA	865,100 KM ²
ID	7121034000005950, PATH 121 ROW 34



IMAGE ACQUIRED SEPTEMBER 8, 1999

Yenisey River Delta, Siberia, Asia

LOCATION	LAT. 70°55'N, LONG. 82°18'E
LANDMASS DRAINED	SIBERIA
BASIN OF DEPOSITION	KARA SEA
CLIMATE	TUNDRA (ET)
AIR TEMP RANGE	-27.4°C – 3.0°C,
TIDAL AMPLITUDE	0.4 M
TYPE	SEMIDIURNAL
DISCHARGE	SEDIMENT 11X10 ⁶ TONS/YR
ID	7158010009925150, PATH 158 ROW 10



IMAGE ACQUIRED OCTOBER 2, 2000

Yukon River Delta, USA, North America

LOCATION	LAT. 62°51'N, LONG. 164°35'W
LANDMASS DRAINED	NORTH AMERICA (USA).
BASIN OF DEPOSITION	BERING SEA
CLIMATE	SUBARCTIC (Dcf),
AIR TEMP RANGE	−18°C TO 9°C,
TIDAL AMPLITUDE	1.2 M
TYPE	DIURNAL
DISCHARGE	WATER 51000 M ³ /S,
DRAINAGE BASIN AREA	9.32x10 ⁵ KM ²
ID	7079016000027650, PATH 79 Row 16



IMAGE ACQUIRED AUGUST 22, 1999

Zaire River delta, Congo, Africa

LOCATION	LAT. 05°47'S, LONG. 12°57'E
LANDMASS DRAINED	AFRICA
BASIN OF DEPOSITION	ATLANTIC OCEAN
CLIMATE	TROPICAL SAVANNA (Aw)
TYPE	SEMIDIURNAL
AIR TEMP RANGE	26°C – 35°C,
ID	7183064009923450, PATH 183 ROW 64

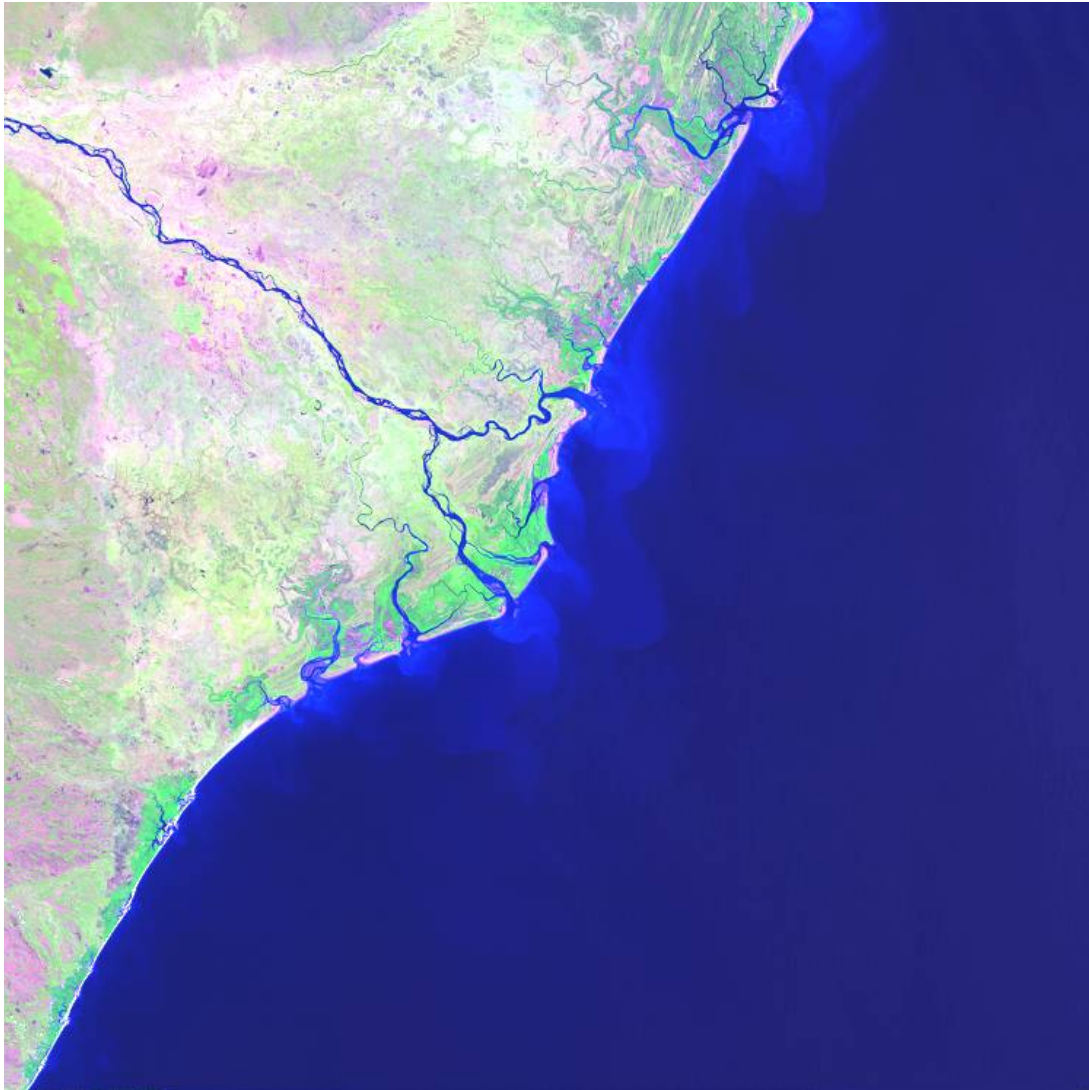


IMAGE ACQUIRED JULY 16, 2000

Zambezi River Delta, Mozambique, Africa

LOCATION	LAT. 18°47'S, LONG. 36°22'E
LANDMASS DRAINED	CENTRAL AFRICA
BASIN OF DEPOSITION	INDIAN OCEAN
AIR TEMP RANGE	16°C-26°C,
CLIMATE	TROPICAL SAVANNA (Aw)
TYPE OF TIDE	SEMIDIURNAL
DRAINAGE BASIN AREA	1.329X10 ⁶ KM ²
ID	7166073000019851, PATH 166 ROW 73