

# **Au - Cu ASSOCIATION VENEZUELA**



**INFORMATION GATHERED THROUGH THE STRATIGRAPHIC CODE OF  
VENEZUELA, GEOREF,  
ASTER VNIR IMAGES, GOOGLE EARTH AND INTERNET**

**Marianto Castro 2021**



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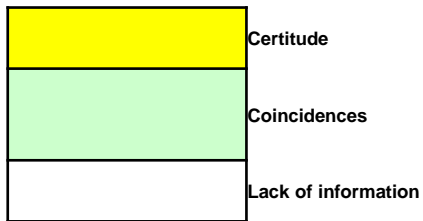
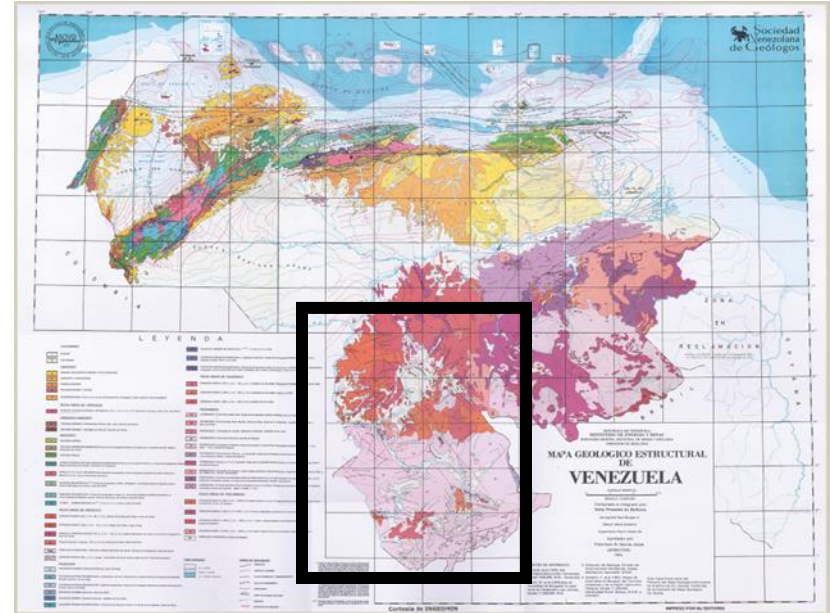
**Au – Cu ASSOCIATION VENEZUELA**  
*INFORMATION GATHERED THROUGH THE  
STRATIGRAPHIC CODE OF VENEZUELA, GEOREF,  
ASTER VNIR IMAGES, GOOGLE EARTH AND INTERNET*

At this compilation is presented the data reported at the Stratigraphic Code of Venezuela and GEOREF.

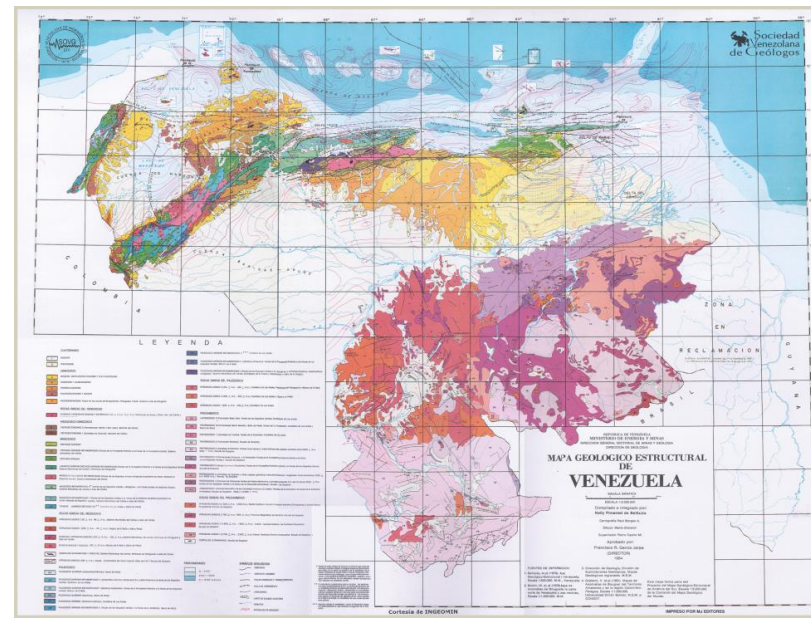
Information related to the locations of the gold – copper association are represented in three categories:

- **Yellow color:** Indicate certitude
- **Green color:** indicate matching attributes
- **No Color:** the information collected is deficient

# AMAZONAS STATE



State	Mineral	District	Location	Location Relative	Coordinates	Age	Group	Formation
Amazonas	Au		Cerro Yapacana	Near to the the mining village of Karida/South-west Ventuari River		Precambrian	Roraima	
		Ature	San Juan de Manapiare		5° 15' 0" N / 66° 5' 0" W	Precambrian		Roraima
	Cu					Precambrian	Roraima	



**ATURES DISTRICT  
AMAZONAS STATE**



WRS-2 Path / Row:

Lat/ Long:

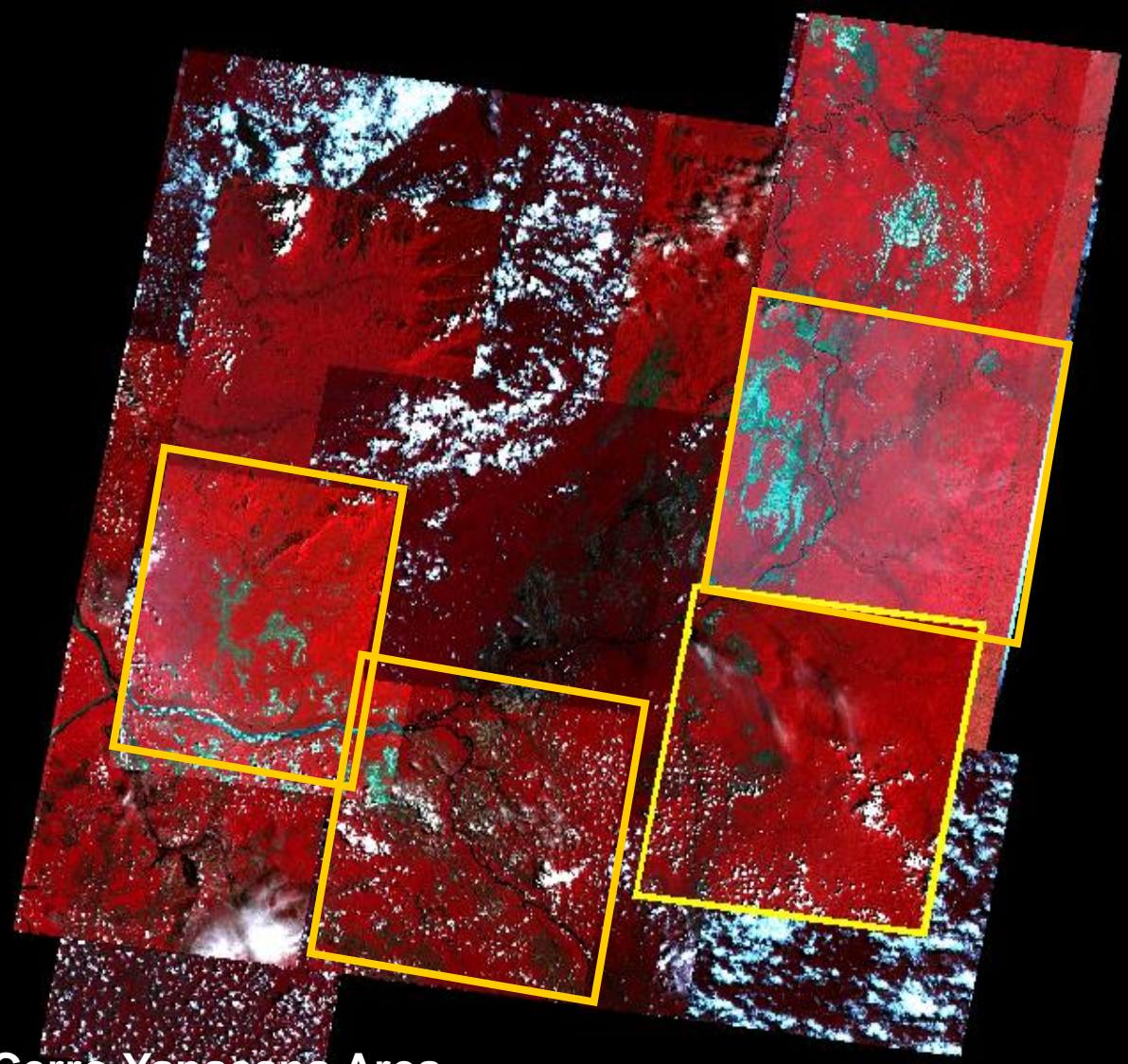
Max Cloud:

Scene Information:  
 ID: AST\_L1B.003:2011503559  
 Cloud Cover: 0%  
 Date: 2003/2/2

Feb

**ASTER VNIR Scene List**

AST_L1B.003:2011028961
AST_L1B.003:2004067033
AST_L1B.003:2011503559
AST_L1B.003:2004079004



**Cerro Yapaacana Area  
Amazonas State**

ASTER VNIR

Lat/Long: 3.771016, -66.714821 degrees





WRS-2 Path / Row: 3 56 Go  
Lat/ Long: 5.4 -66.8 Go

Max Cloud: 10%  
↑ ↓ ← →

Scene Information:  
ID: AST\_L1B.003:2008693324  
Cloud Cover: 0%  
Date: 2002/10/4

Oct 2002 Go

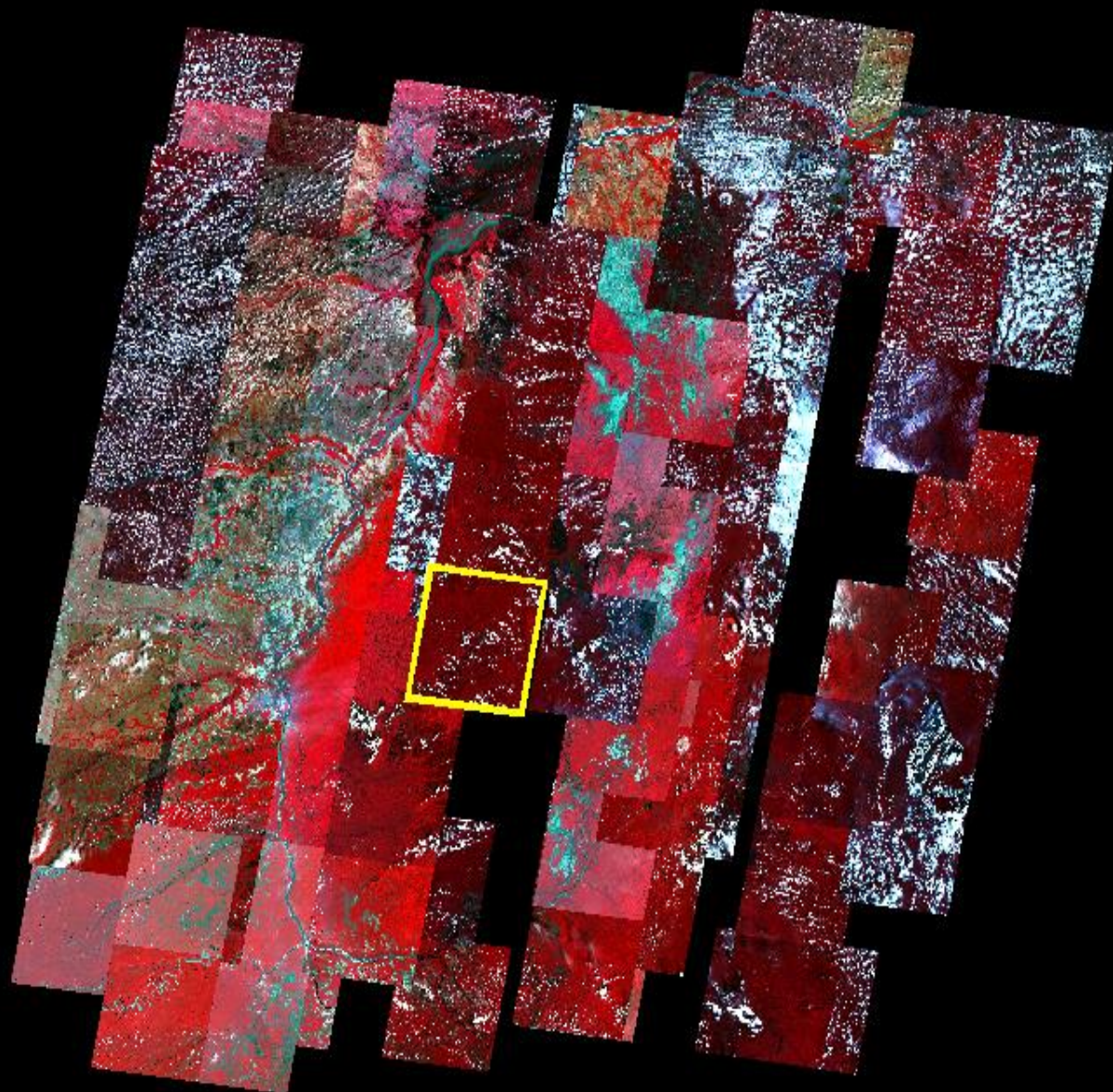
Prev Scene Next Scene

ASTER VNIR Scene List

AST\_L1B.003:2011028959  
AST\_L1B.003:2011029534  
AST\_L1B.003:2008693324

Add Delete Order

ASTER VNIR 1000m No Limits Set



San Juan de Manapiare Area, Ature District  
Amazonas State





# San Juan de Manapiare Area, Ature District Amazonas State (Detail)

WRS-2 Path / Row:     
Lat / Long:

Max Cloud:

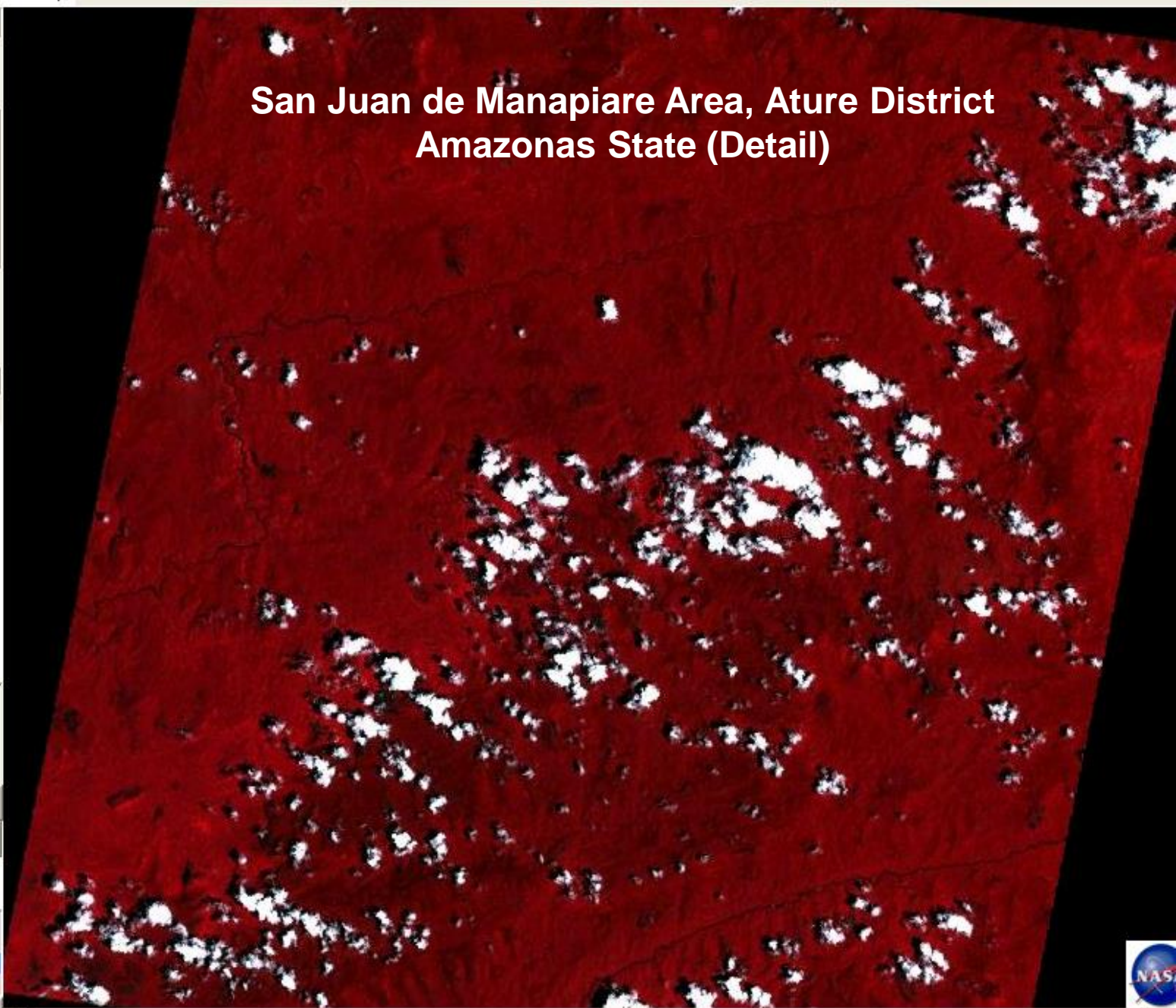
Scene Information:  
ID: AST\_L1B.003:2008693324  
Cloud Cover: 0%  
Date: 2002/10/4

Oct  2002

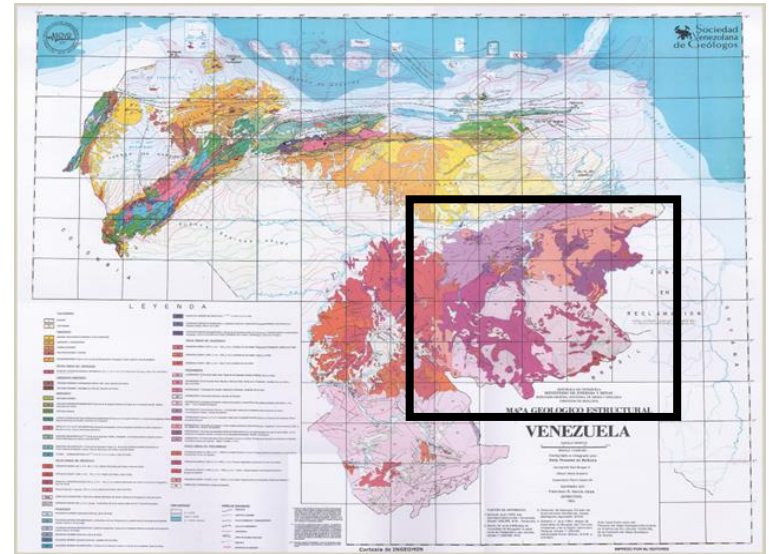
**ASTER VNIR Scene List**

AST_L1B.003:2011028959
AST_L1B.003:2011029534
AST_L1B.003:2008693324

ASTER VNIR



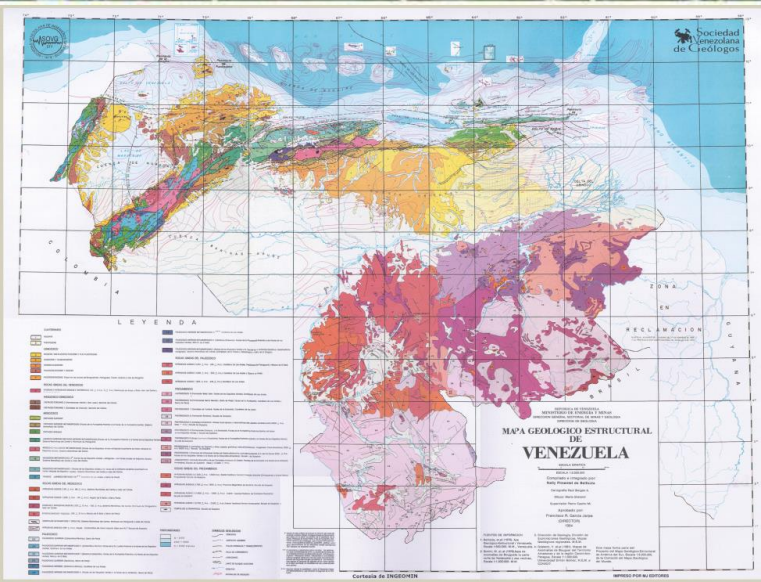
# BOLIVAR STATE



	Certitude
	Coincidences
	Lack of information

State	Mineral	District	Community	Location	Location Relative	Coordinates	Age	Complex	Group	Formation	Values	Deposit Type	Host Rock Type	Reserves	ASTER VNIR	
Bolívar	Au			Las Flores								Veins				
				La Rosa			Proterozoic					Vein, placer	Metavolcanic and metasedimentary rocks			
			Sifontes		Mina Vuelvan Caras	Tumeremo Region	7° 6' 22" N / 60° 45' 41" W	Precambrian					Lode	Metavolcanic and metasedimentary rocks		AST_L1B.003.2016537394/2016537294/2016591790/2016591742
			Sifontes		Purgatorio	Tumeremo region		Proterozoic					Vein	Metavolcanic and metasedimentary rocks		
			El Callao	El Callao	El Callao District	El Callao		Early Proterozoic					Vein, shear, placer	Greenstone belt rocks, meta-andesite		AST_L1B.003.2016592263/ 592340
					Cerro Azul Valley placers		7° 35' 58" N / 62° 44' 39" W	Cenozoic					Placer, alluvial	Alluvial sediments		AST_L1B.003.2025208631/2025208485/2006228162/2015417106
					Rio Cuyuní											
			Sifontes		Cantera Córdoba	Las Cristinas Area										
			Sifontes		Los Mesones- Sofi	Las Cristinas Area		Proterozoic				14.3 million ton, 1.67 g/ ton Au, 0.437 % Cu		Greenstone belt	14.3 million ton	
					Supamo	Las Cristinas Area		Proterozoic				255.4 million ton, 1.16 g/ton Au, 0.12% CU		Greenstone belt	255.4 million ton	
				Conductora- Cuatro Muertos	Las Cristinas Area		Precambrian			Carum (informal)						
	Cu				Las Flores								Veins			
					La Rosa			Proterozoic					Vein, placer	Metavolcanic and metasedimentary rocks		
					Vuelvan Caras	Tumeremo Region	7° 6' 22" N / 60° 45' 41" W	Precambrian					Lode	Metavolcanic and metasedimentary rocks		AST_L1B.003.2016537394/2016537294/2016591790/2016591742
					Purgatorio	Tumeremo Region		Proterozoic					Vein	Metavolcanic and metasedimentary rocks		
					El Callao District	Near to El Callo Town		Early Proterozoic					Vein, shear, placer	Greenstone belt rocks, meta-andesite		AST_L1B.003.2016592263/ 592340
					Cerro Azul Valley placers		7° 35' 58" N / 62° 44' 39" W	Cenozoic					Placer, alluvial	Alluvial sediments		AST_L1B.003.2025208631/2025208485/2006228162/2015417106
					Rio Cuyuní			Precambrian			Floraima					
					Cantera Córdoba	Las Cristinas Area										
					Los Mesones- Sofía	Las Cristinas Area		Proterozoic				14.3 million ton, 1.67 g/ ton Au, 0.437 % Cu		Greenstone belt	14.3 million ton	
				Conductora - Cuatro Muertos	Las Cristinas Area		Proterozoic				255.4 million ton, 1.16 g/ton Au, 0.12% CU		Greenstone belt	255.4 million ton		
				Supamo		Precambrian			Supamo							







WRS-2 232 55 Go  
 Path / Row:  
 Lat/ 6.8 -60.8 Go  
 Long:

Max Cloud: 10%  
 ↑ ↓ ← →

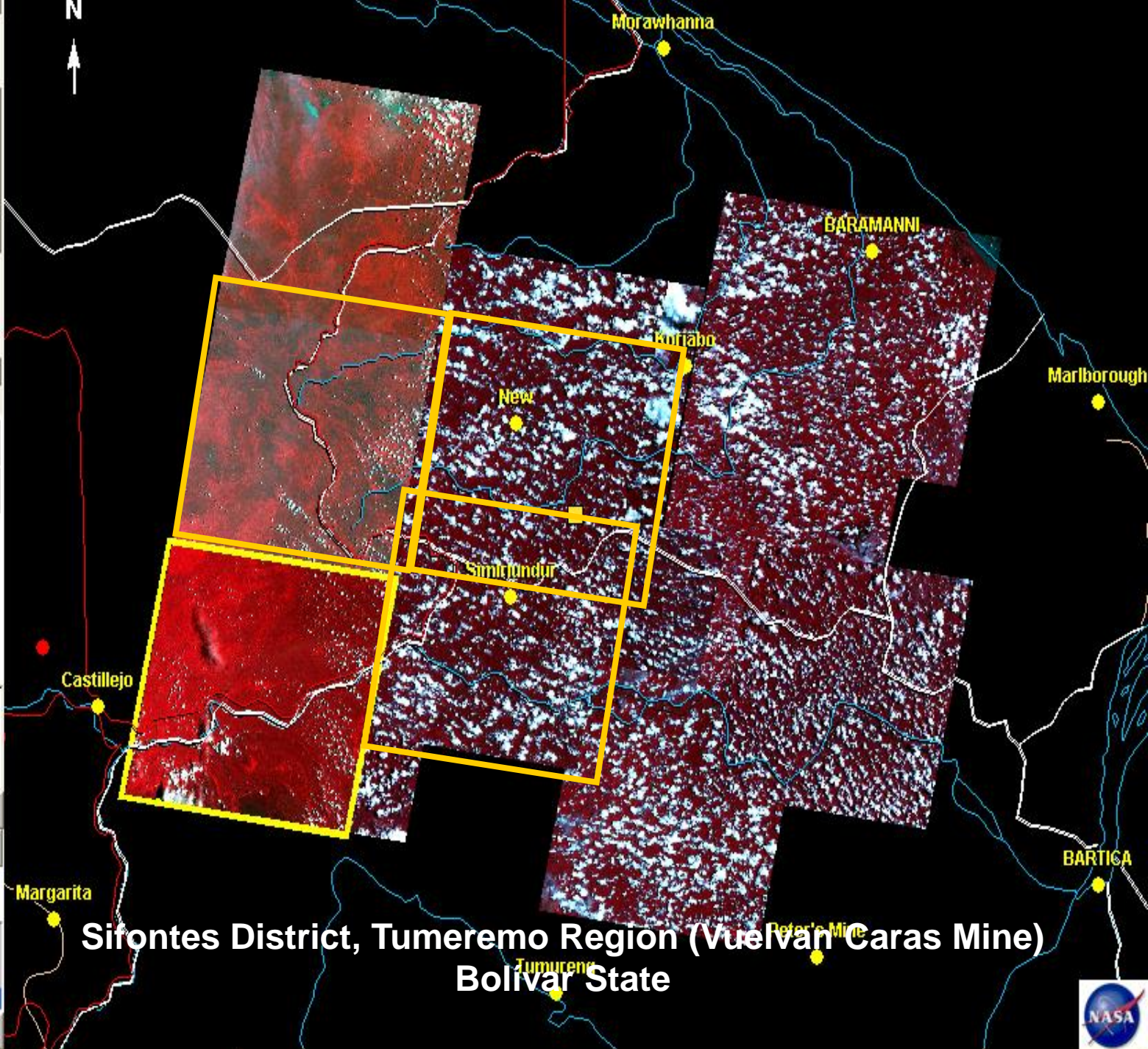
Scene Information:  
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 Cloud Cover: 0%  
 Date: 2000/9/7

Sep 2000 Go  
 Prev Scene Next Scene

**ASTER VNIR Scene List**

AST_L1B.003:2016537394
AST_L1B.003:2016537294
AST_L1B.003:2016591798
AST_L1B.003:2016591742

Add Delete Order



**Sifontes District, Tumeremo Region (Vuelvan Caras Mine)  
 Bolivar State**





WRS-2 Path / Row: 1 55 Go

Lat/Long: 7.0 -63.1 Go

Max Cloud: 10% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:

ID: AST\_L1B.003:2025208631  
 Cloud Cover: 0%  
 Date: 2002/9/4

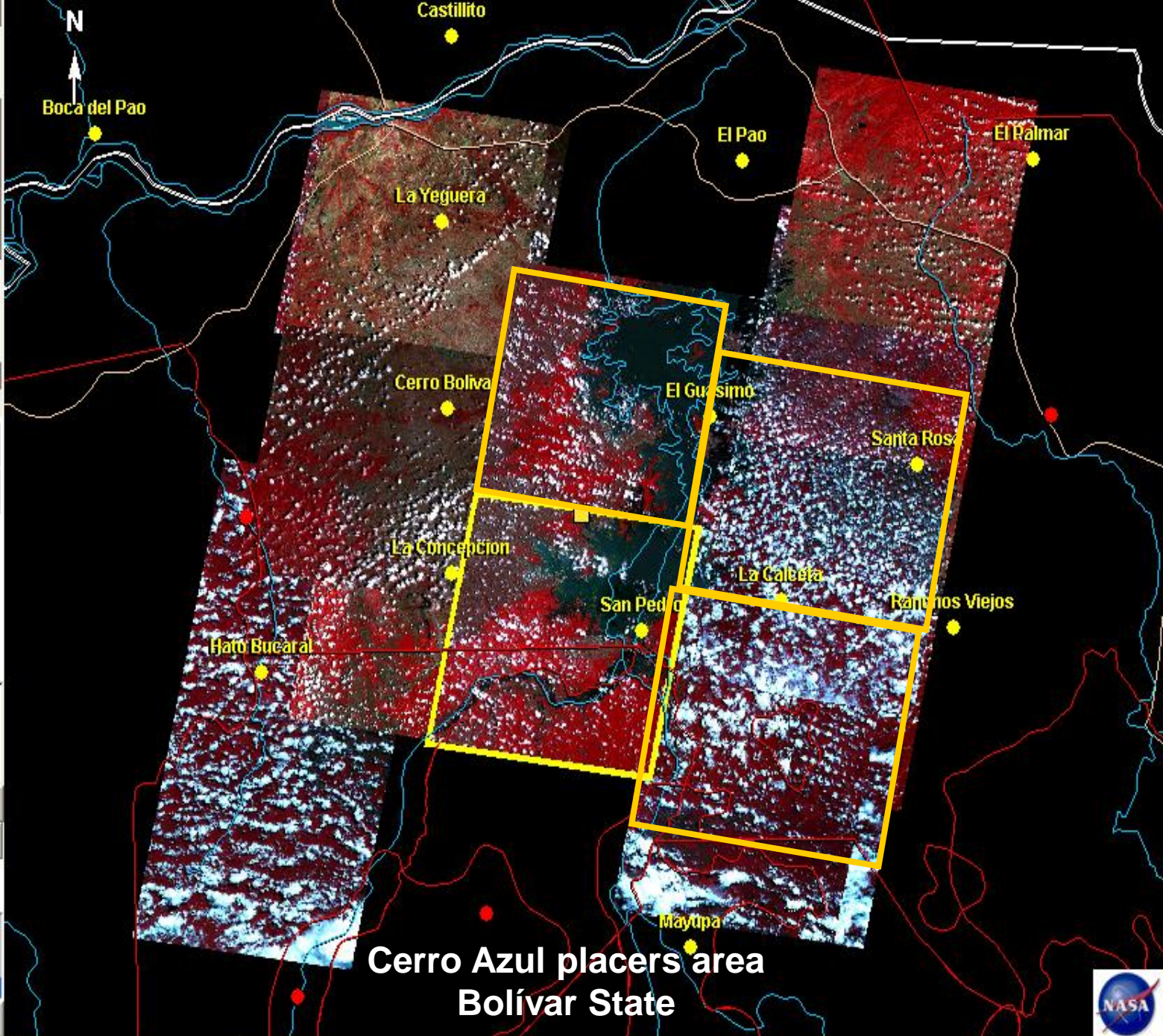
Sep 2002 Go

Prev Scene Next Scene

**ASTER VNIR Scene List**

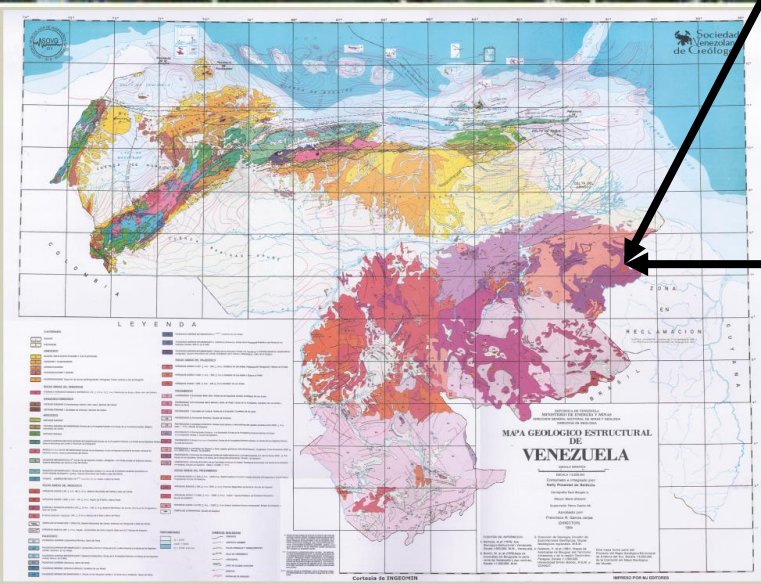
AST_L1B.003:2025208631
AST_L1B.003:2025208485
AST_L1B.003:2006228162
AST_L1B.003:2015417106

Add Delete Order



**Cerro Azul placers area  
Bolívar State**







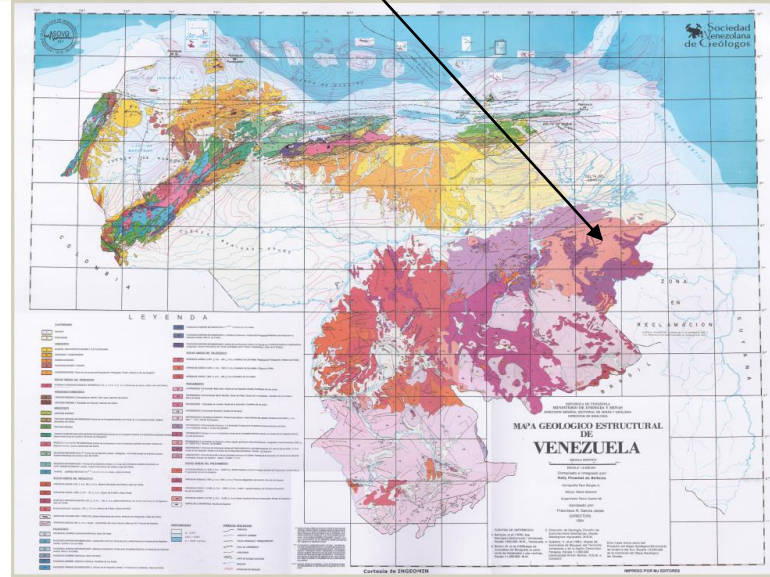
Map Satellite Hybrid



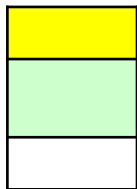
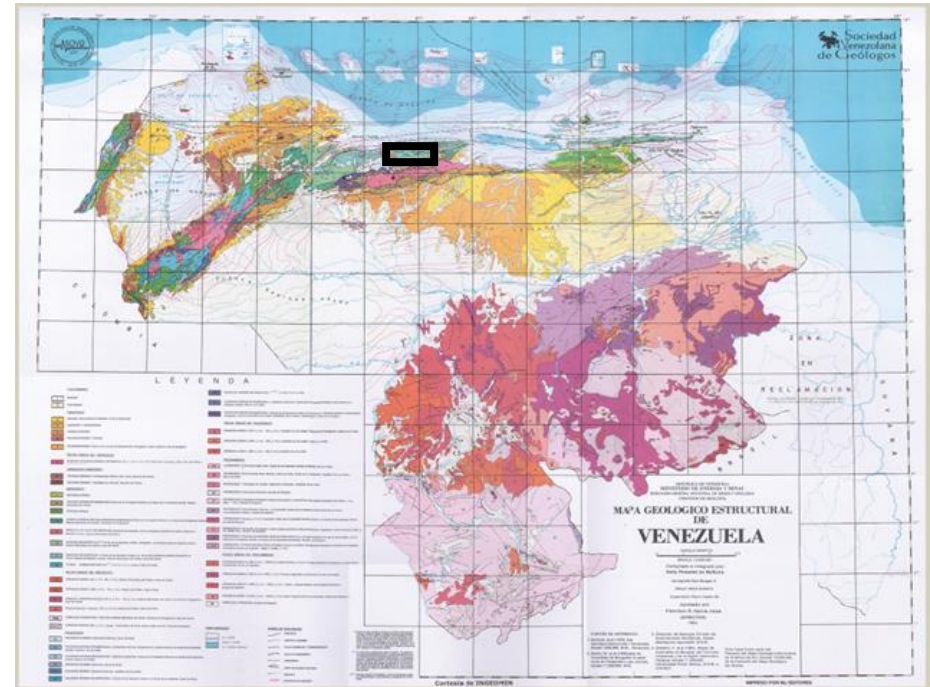
POWERED BY Google



**EL CALLAO DISTRICT  
BOLIVAR STATE**



# DISTRITO FEDERAL



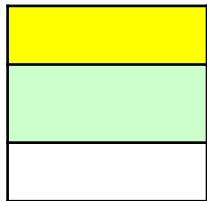
Certitude

Coincidences

Lack of information

State	Mineral	Location	Age	Group	Official Map
Distrito Federal	Au	Picacho de Galipán ??			
	Cu		Jurassic-Cretaceous	Caracas	Hoja 6847 Cartografía Nacional
State	Mineral	Location	Age	Group	Official Map

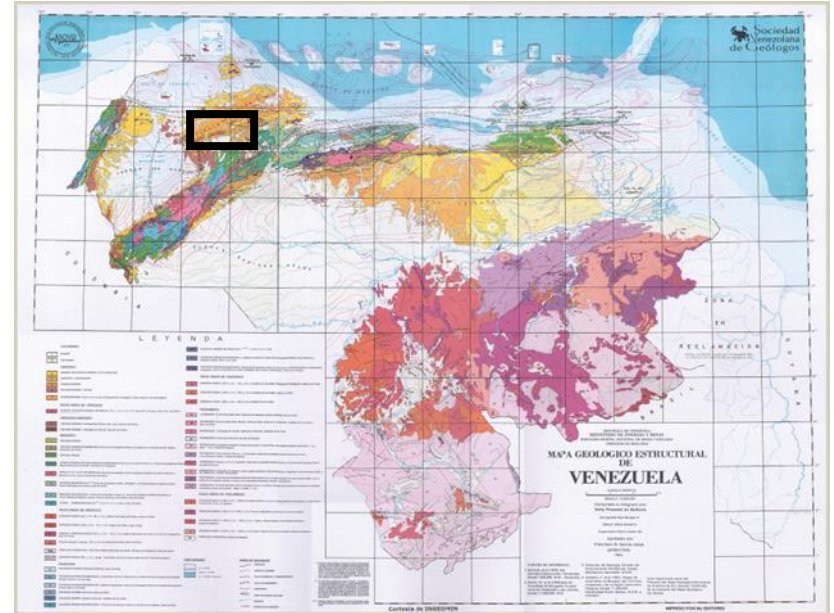
# LARA STATE



Certitude

Coincidences

Lack of information

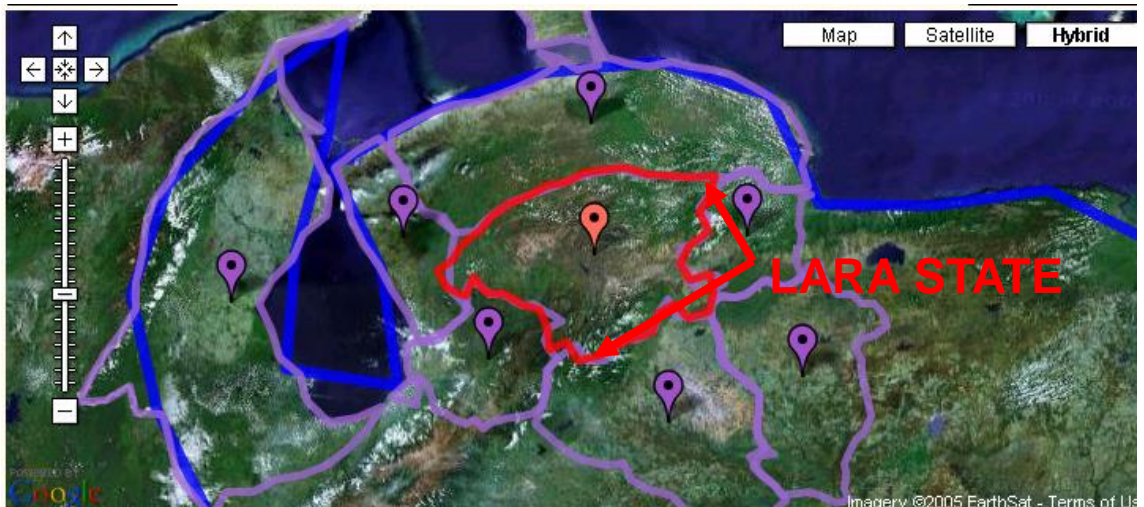


State	Mineral	Location	Location Relative	Age	Formation	Values	Host Rock Type	ASTER VNIR
Lara	Au	Barquisimeto - Campo Elias	Area near Barquisimeto Town			83 g/ metric ton	Massive milky quartz	AST_L1B.003:2032997769 / 2018139489 / 2006255909 / 2018139334 / 2021325471
	Cu			Cretaceous	La Luna			AST_L1B.003:2032997769 / 2018139489 / 2006255909 / 2018139334 / 2021325471
State	Mineral	Location	Location Relative	Age	Formation	Values	Host Rock Type	ASTER VNIR



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## BARQUISIMETO AREA, LARA STATE

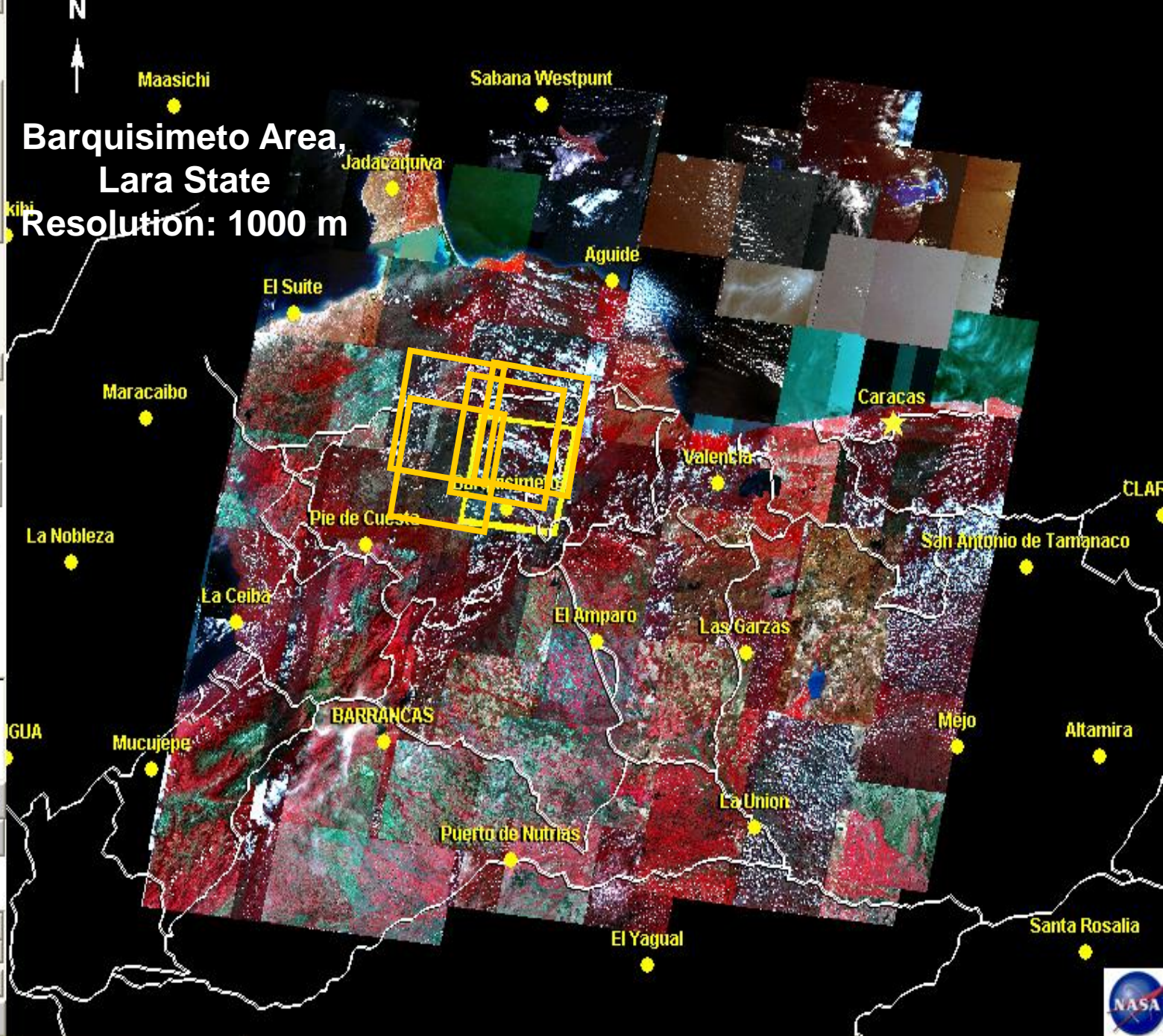


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**Barquisimeto Area,  
Lara State**  
Resolution: 1000 m



WRS-2 Path / Row: 5 53 Go  
 Lat / Long: 10.3 -89.3 Go

Max Cloud: 100% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:  
 ID: AST\_L1B.003:2018139489  
 Cloud Cover: 7%  
 Date: 2001/6/9  
 Jun 2001 Go  
 Prev Scene Next Scene

**ASTER VNIR Scene List**

AST_L1B.003:2021325471	▲
AST_L1B.003:2032997769	▲
AST_L1B.003:2018139489	▲
AST_L1B.003:2006255909	▼

Add Delete Order

ASTER VNIR 1000m No Limits Set



# Northern Barquisimeto Town, Lara State Resolution: 90 m



WRS-2  
Path / Row: 5 53 Go  
Lat / Long: 10.3 -69.3 Go

Max Cloud: 100%  
← ↑ ↓ →

Scene Information:  
ID: AST\_L1B.003:2018139489  
Cloud Cover: 7%  
Date: 2001/6/9

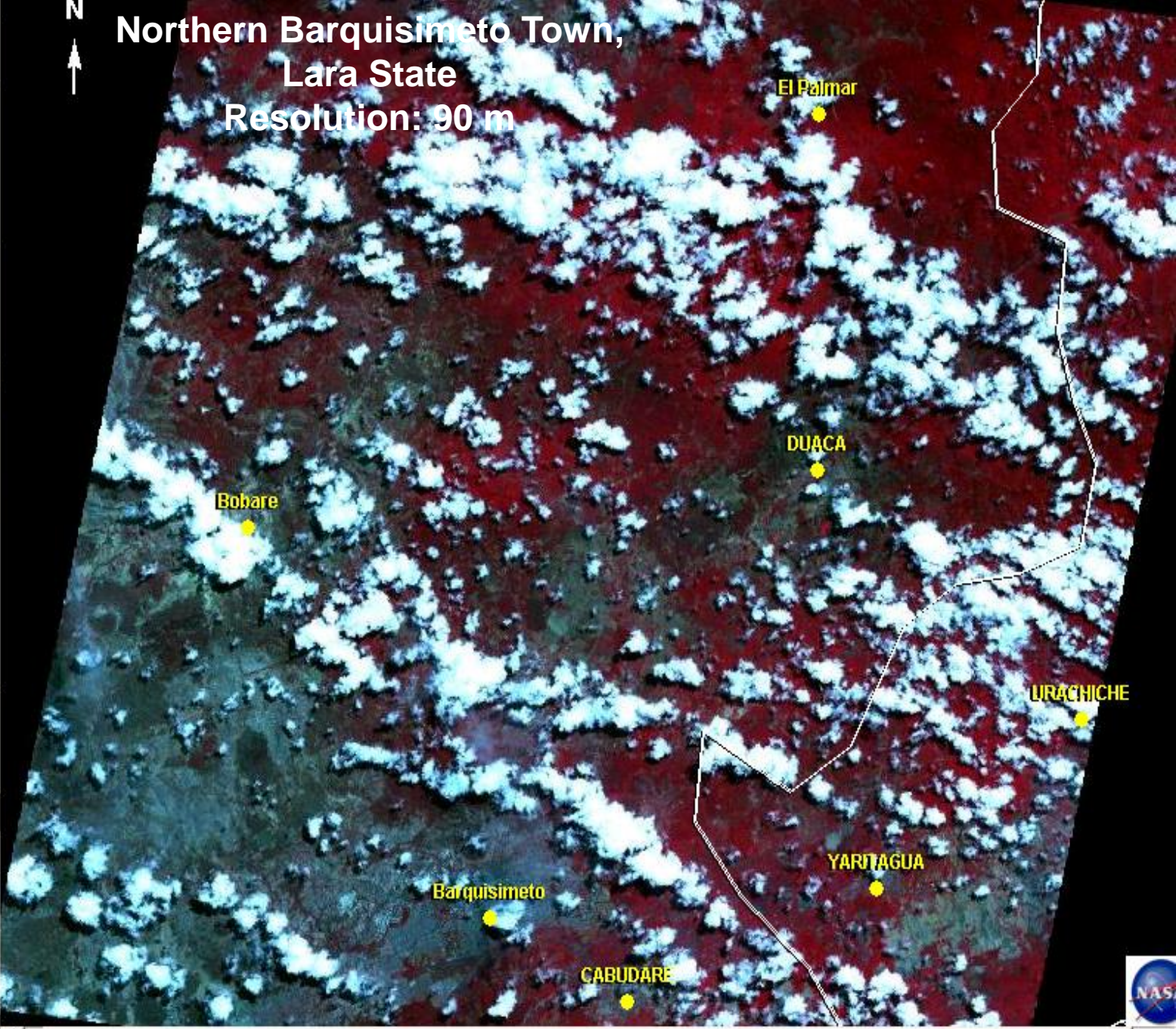
Year: 2001 Go

Prev Scene Next Scene

- ASTER VNIR Scene List
- AST\_L1B.003:2021325471
  - AST\_L1B.003:2032997769
  - AST\_L1B.003:2018139489
  - AST\_L1B.003:2006255909

Add Delete Order

ASTER VNIR 90m



No Limits Set

Lat/Long: 10.407142, -69.530989 degrees





# Near Barquisimeto Area, Lara State

Resolution: 400 m

WRS-2 Path / Row: 6 53 Go

Lat/ Long: 10.1 -69.7 Go

Max Cloud: 100%

Navigation arrows: Up, Down, Left, Right

### Scene Information:

ID: AST\_L1B.003:2032997769  
 Cloud Cover: 3%  
 Date: 2006/2/6

Feb 2006 Go

Prev Scene Next Scene

### ASTER VNIR Scene List

AST\_L1B.003:2021325471

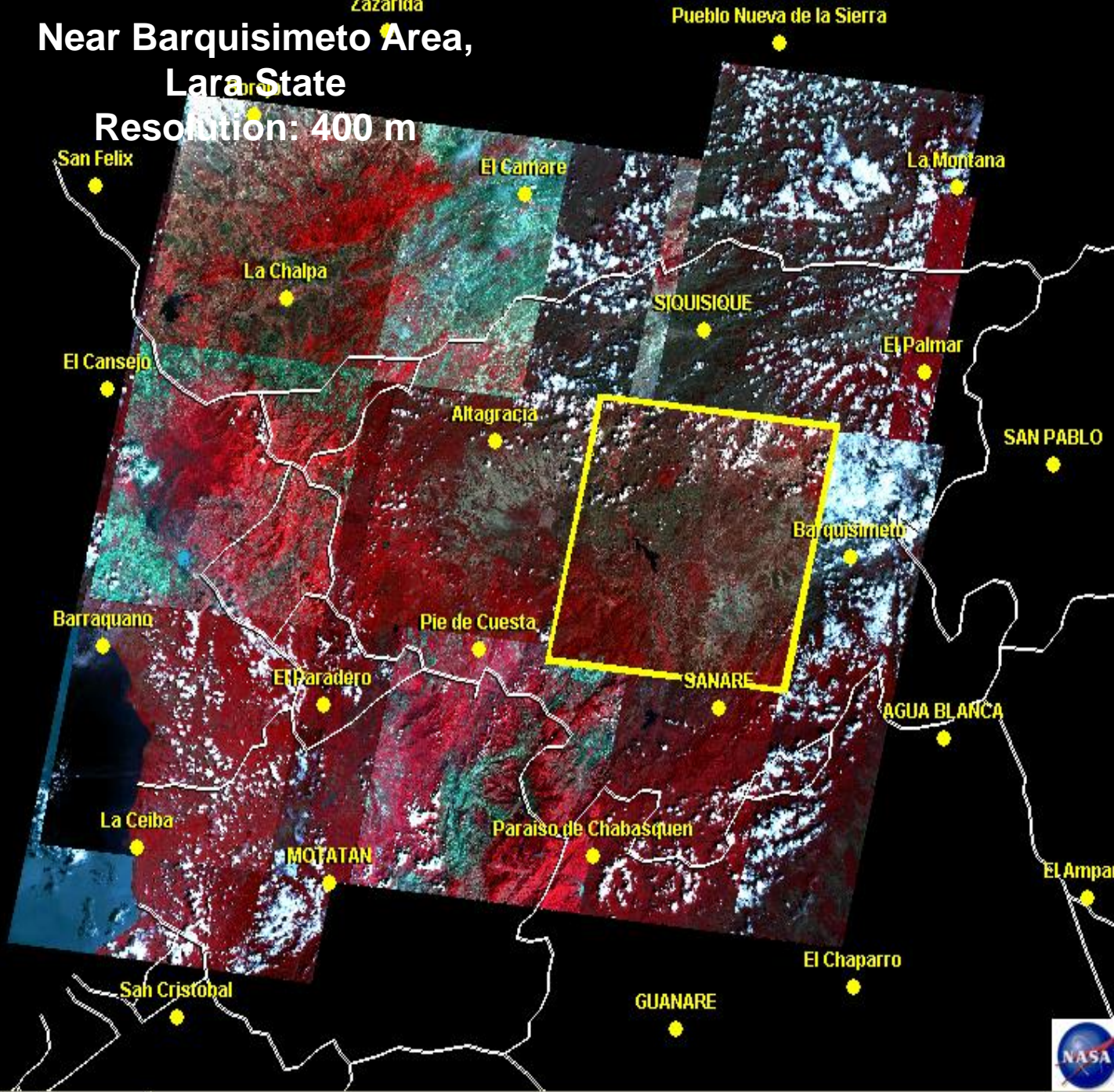
AST\_L1B.003:2032997769

AST\_L1B.003:2018139489

AST\_L1B.003:2006255909

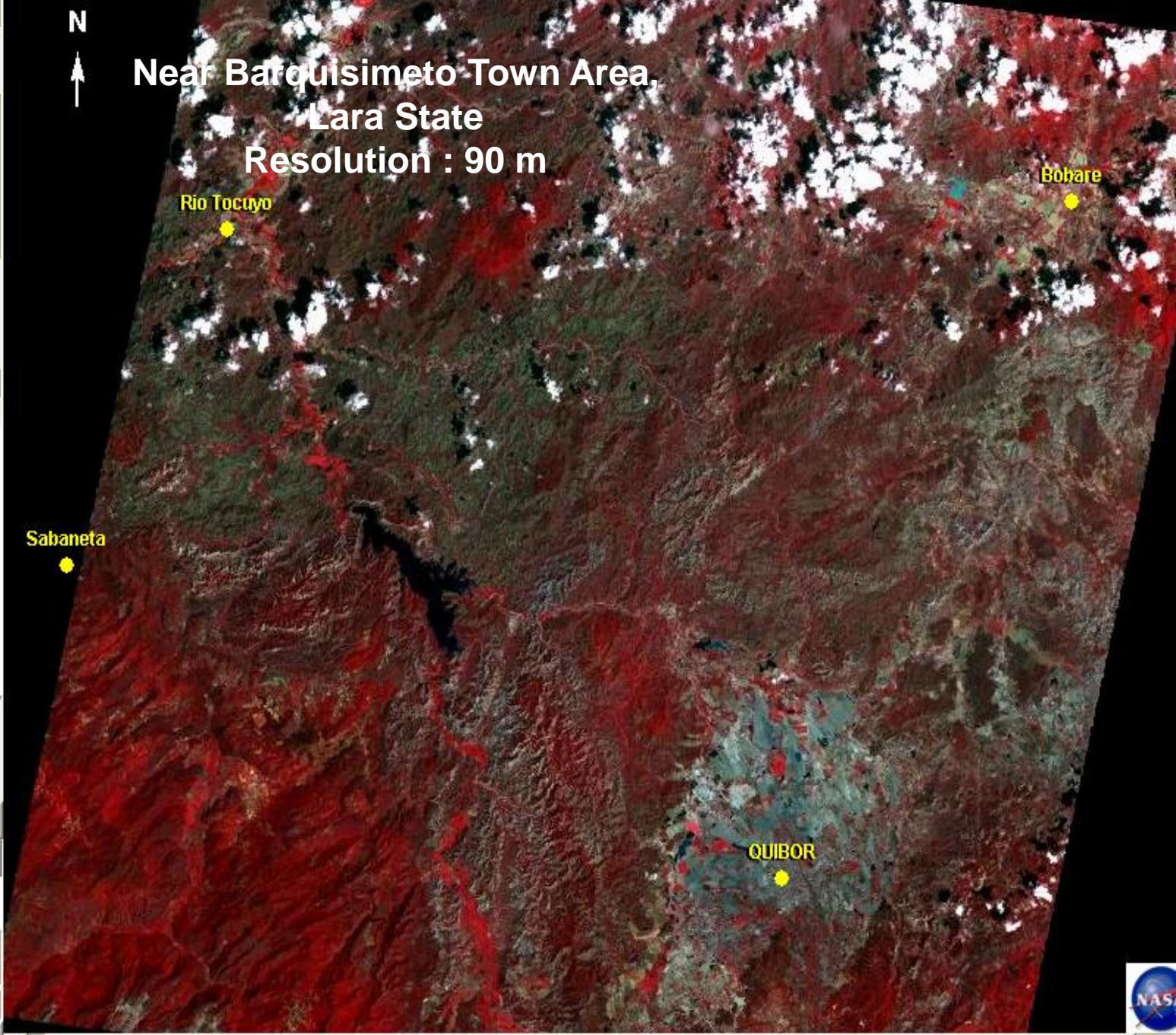
Add Delete Order

ASTER VNIR 400m No Limits Set





Near Barquisimeto Town Area,  
Lara State  
Resolution : 90 m



WRS-2 Path / Row:

Lat/ Long:

Max Cloud:

Scene Information:  
ID: AST\_L1B.003:2032997769  
Cloud Cover: 3%  
Date: 2006/2/6

Feb  2006

ASTER VNIR Scene List

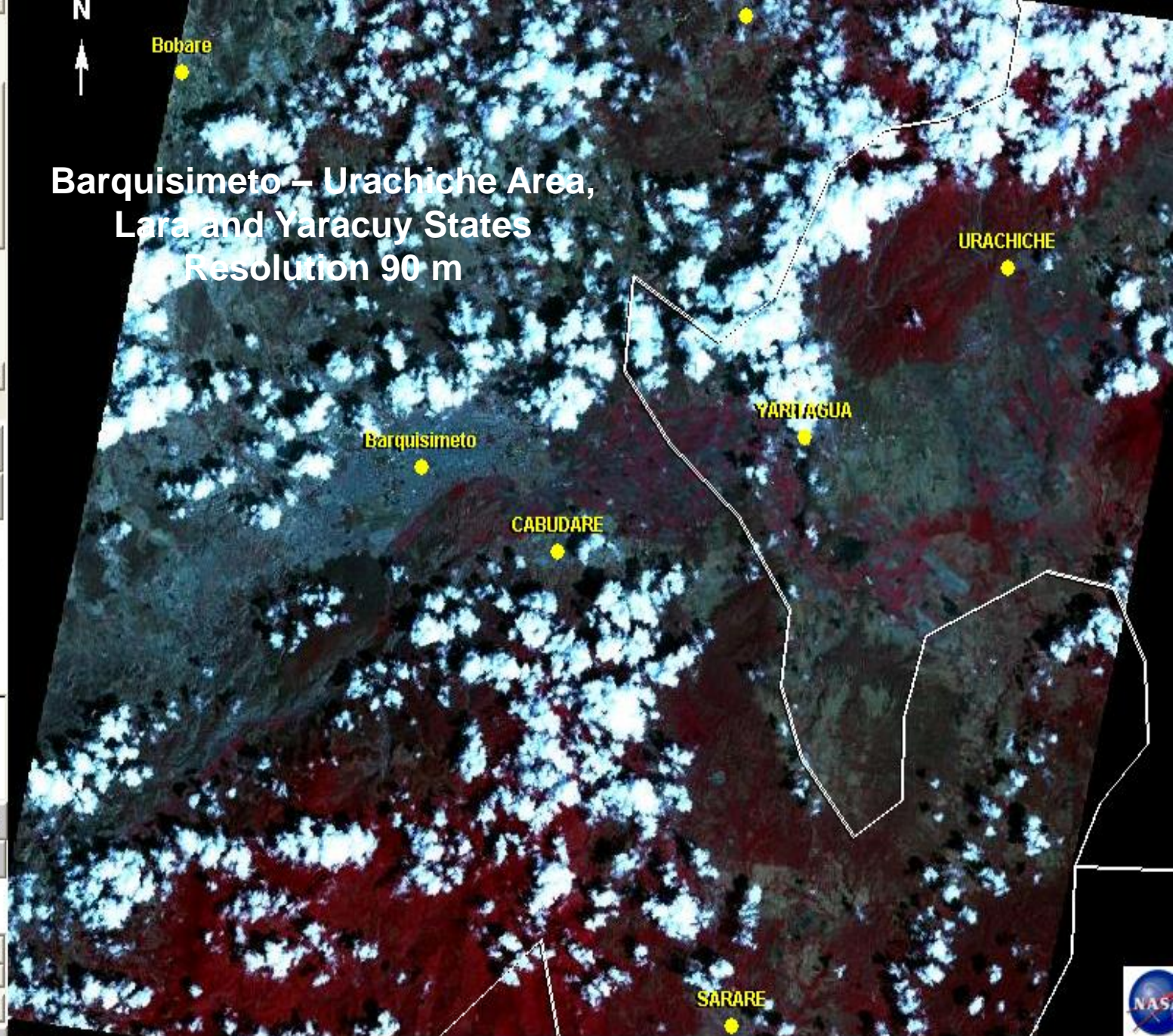
- AST\_L1B.003:2021325471
- AST\_L1B.003:2032997769
- AST\_L1B.003:2018139489
- AST\_L1B.003:2006255909

ASTER VNIR





**Barquisimeto – Urachiche Area,  
Lara and Yaracuy States  
Resolution 90 m**



WRS-2: 5 53 Go  
Path / Row:  
Lat/ Long: 10.0 -69.2 Go

Max Cloud: 100%  
↑  
← →  
↓

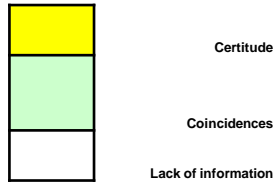
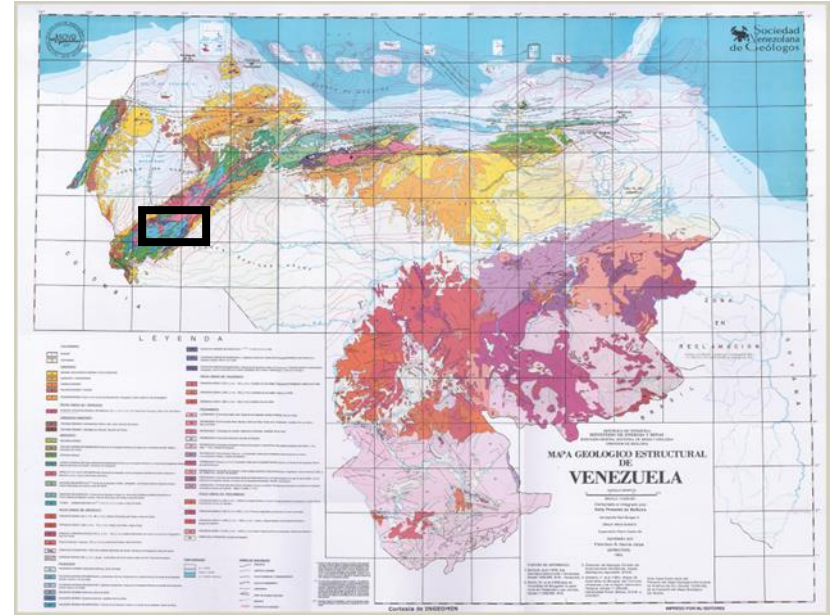
**Scene Information:**  
ID: AST\_L1B.003:2021325471  
Cloud Cover: 4%  
Date: 2004/2/17

Feb 2004 Go  
Prev Scene Next Scene

- ASTER VNIR Scene List**
- AST\_L1B.003:2021325471
  - AST\_L1B.003:2032997769
  - AST\_L1B.003:2018139489
  - AST\_L1B.003:2006255909
- Add Delete Order



# MERIDA STATE



State	Mineral	District	Location	Location Relative	Coordinates	Age	Formation	Area	ASTER VNIR
MÉRIDA	Au	Miranda		Granite and pegmatites at the Miranda District					
		Miranda	Granito de Puente Real	South part of Rio Chama		Precambrian	Sierra Nevada	12 km2	
	Cu	Miranda	Las Tapias	South of Bailadores Town	8° 59' 25" N / 70° 51' 32" W				AST_L1B.003:2023024685/ 2017511383/ 2008385792/ 2017011245
		Miranda	Timotes		8° 59' 15" N / 70° 44' 18" W	Precambrian	Sierra Nevada		AST_L1B.003:2010737775/ 2005776253
State	Mineral	District	Location	Location Relative	Coordinates	Age	Formation	Area	ASTER VNIR



Map

Satellite

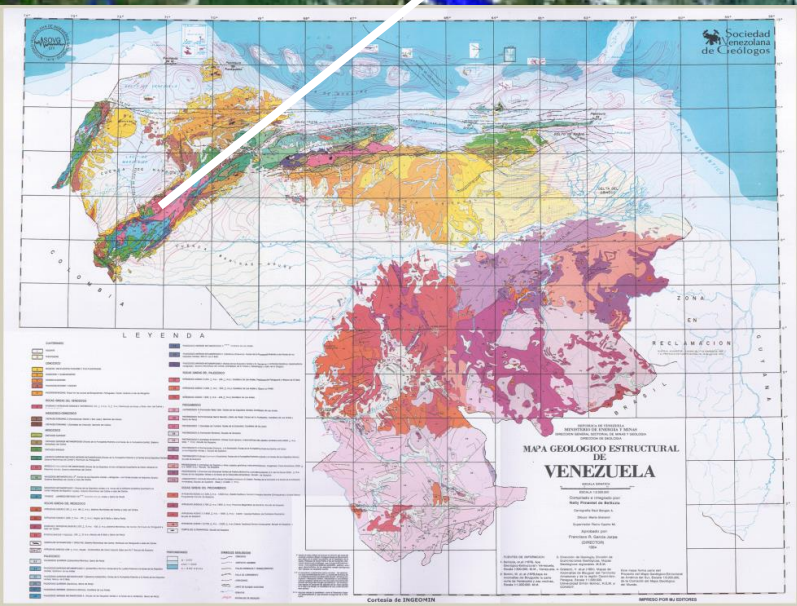
Hybrid

MIRANDA DISTRICT

Timotes

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Map



Timotes

TIMOTES, MIRANDA DISTRICT  
MERIDA STATE

Drag to zoom



WRS-2 Path /Row: 6 54 Go

Lat/Long: 8.5 -69.8 Go

Max Cloud: 0% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:  
 ID: AST\_L1B.003:2010737775  
 Cloud Cover: 0%  
 Date: 2003/1/13

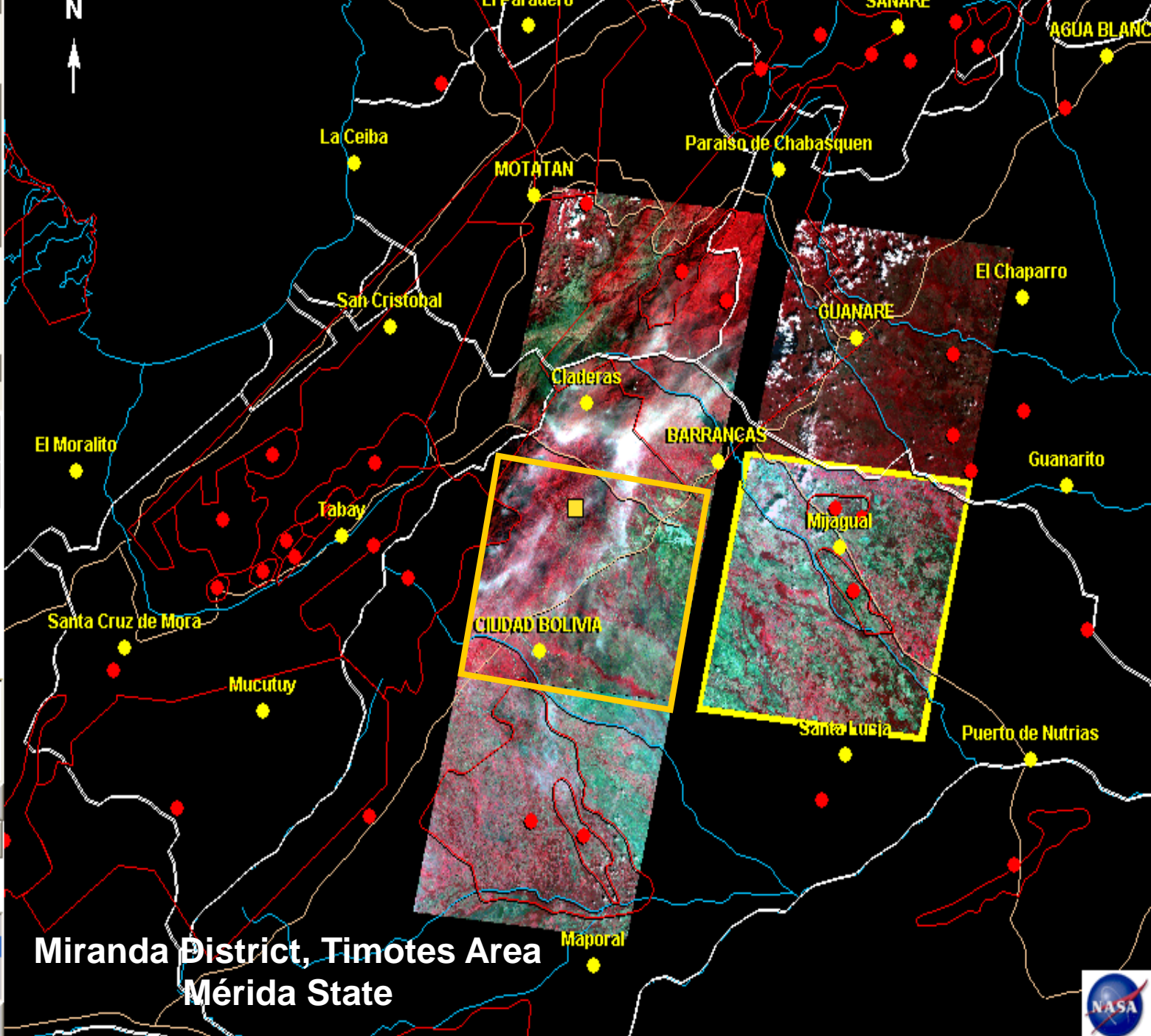
Jan 2003 Go

Prev Scene Next Scene

ASTER VNIR Scene List

AST_L1B.003:2010737775
AST_L1B.003:2005776253

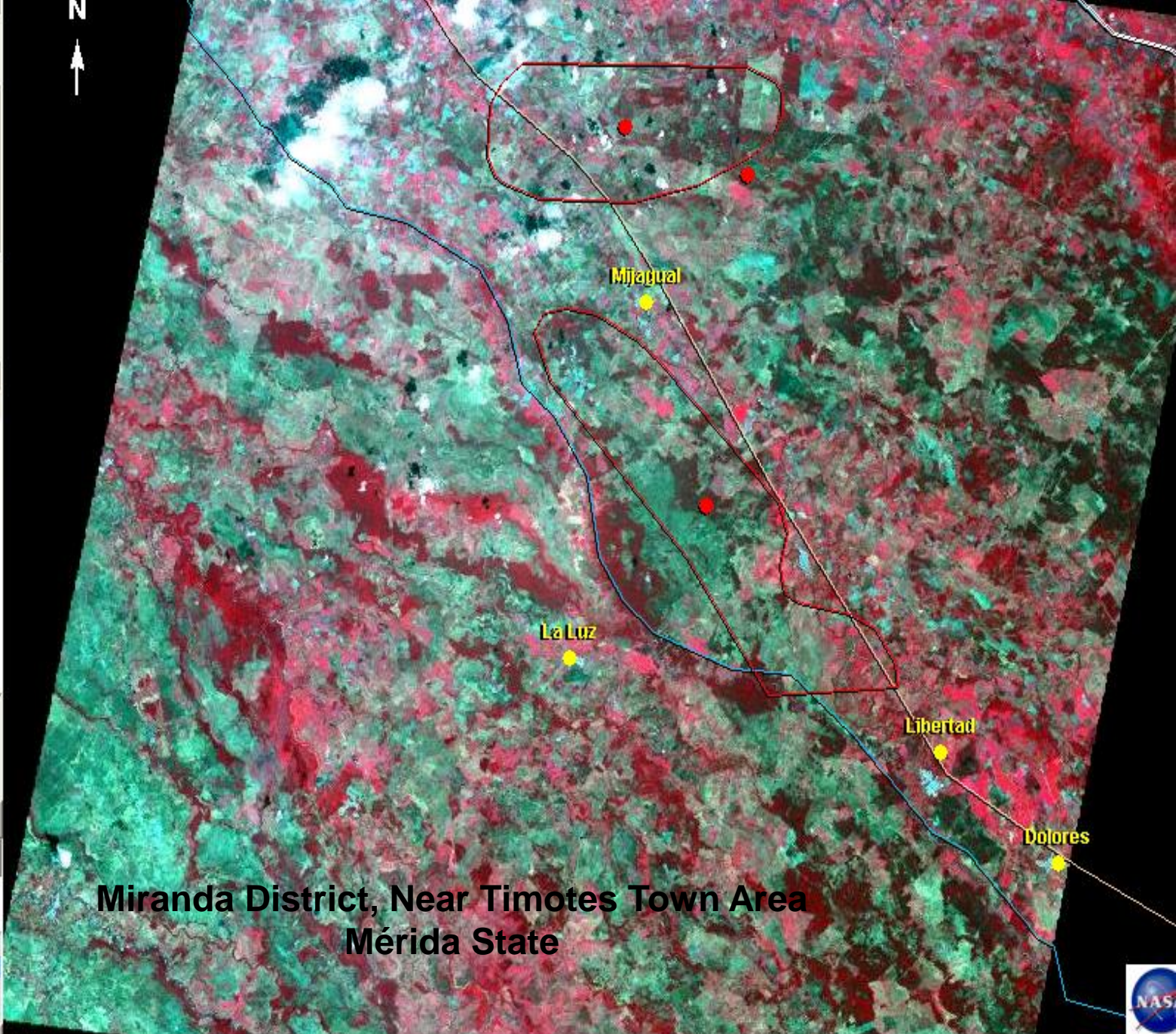
Add Delete Order



**Miranda District, Timotes Area  
 Mérida State**







ASTER-2  
Path / Row:     
Lat / Long:

Max Cloud:

Scene Information:  
ID: AST\_L1B.003:2010737775  
Cloud Cover: 0%  
Date: 2003/1/13

Year:

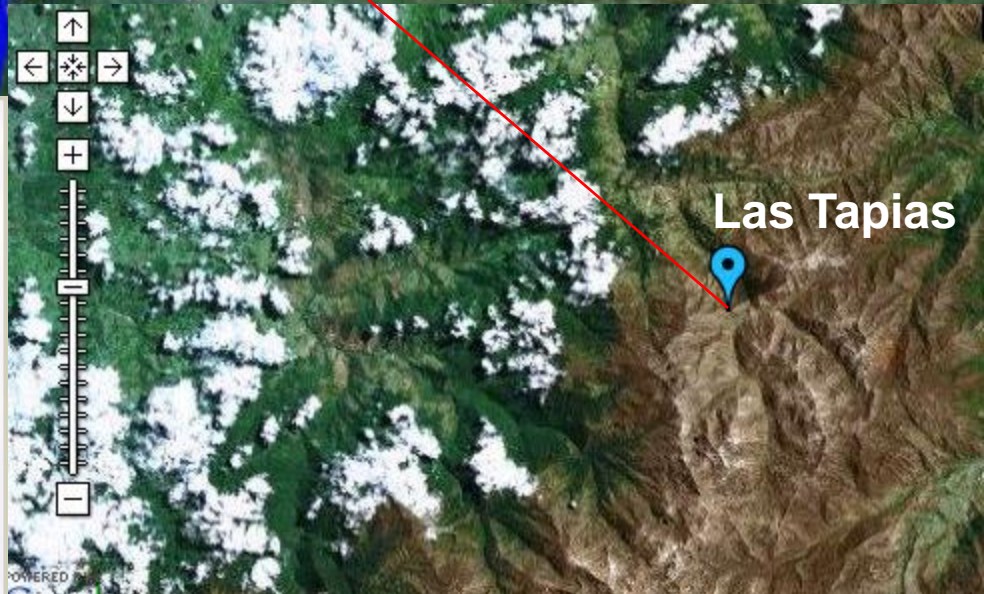
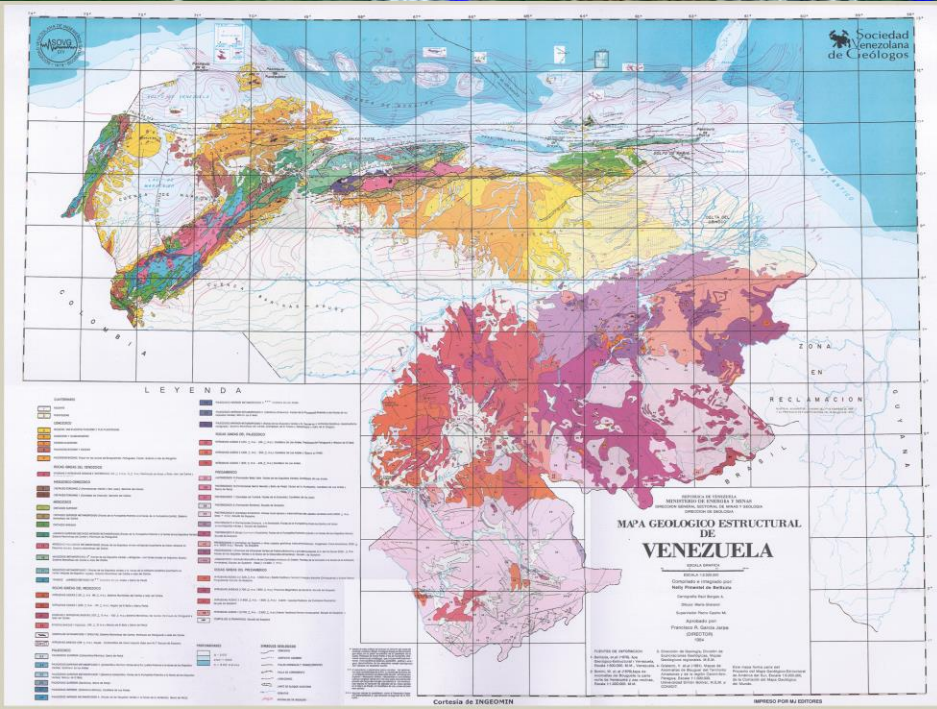
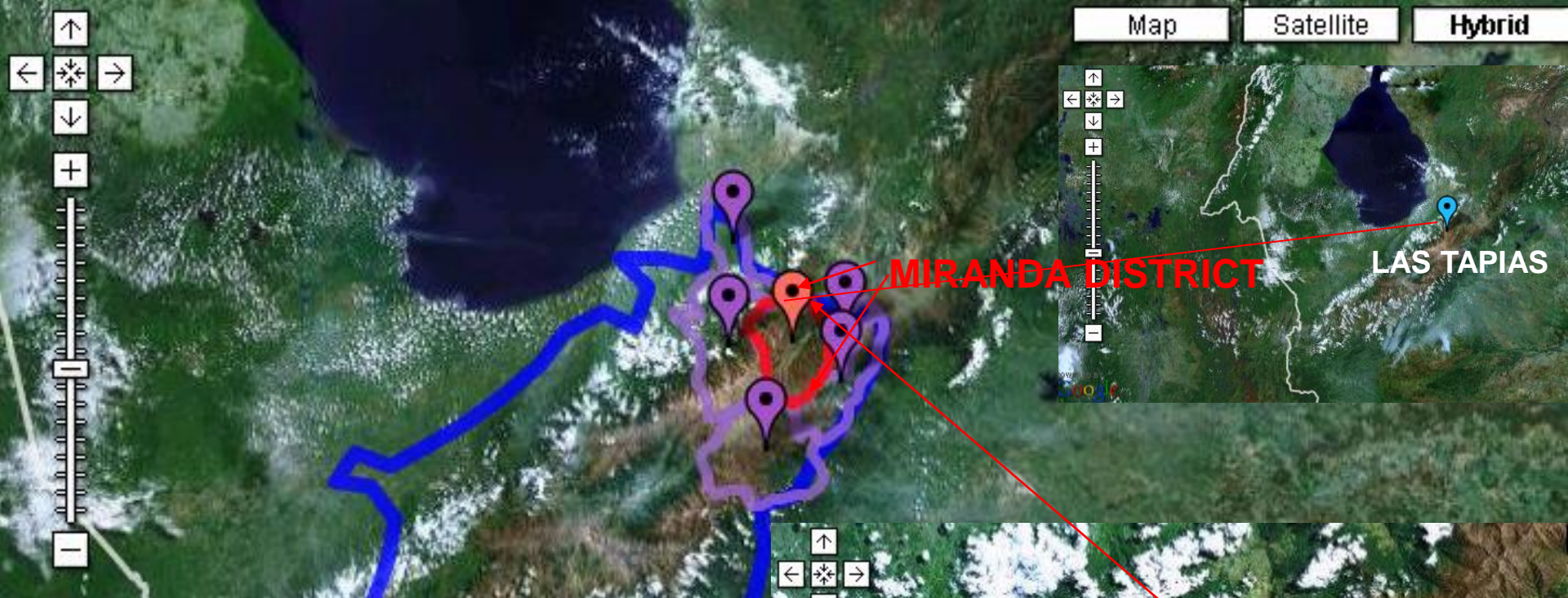
ASTER VNIR Scene List

AST_L1B.003:2010737775
AST_L1B.003:2005776253

**Miranda District, Near Timotes Town Area  
Mérida State**

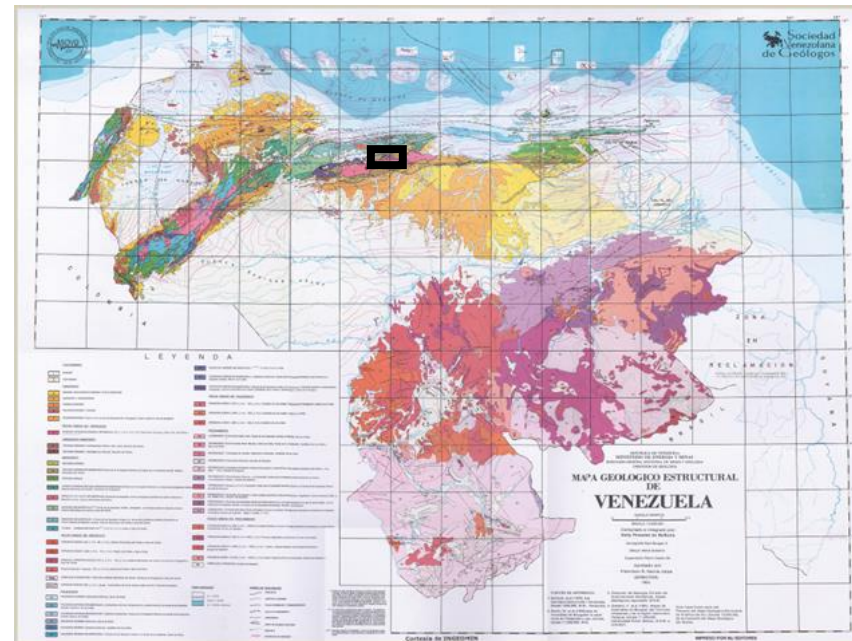


ASTER VNIR



**LAS TAPIAS, MIRANDA DISTRICT  
MERIDA STATE**

# MIRANDA STATE



Certitude  
Coincidences  
Lack of information

State	Mineral	District	Location	Location Relative	Age	Complex	Group	Formation	Official Map	ASTER VNIR
Miranda	Au		Rio Macaira	Guatopo Zone	Cretaceous	Apa				
		Guaicaipuro	Middle part of Cordillera de la Costa	South-east of Los Teques City / North of Paracotos Town	Jurassic-Cretaceous			Las Mercedes and Paracotos		AST-L1B.003:2016478581/
		Guaicaipuro	Quebrada Maitana	South-east of Los Teques City/North of Paracotos Town	Jurassic-Cretaceous			Las Mercedes and Paracotos		AST-L1B.003:2016478581/
		Guaicaipuro	Minas de oro de los indios Teques	South-east of Los Teques City/North of Paracotos Town	Jurassic-Cretaceous			Las Mercedes and Paracotos		AST-L1B.003:2016478581/
	Cu		Rio Taguaza	Guatopo Zone						
		Guaicaipuro	Los Teques							AST-L1B.003:2016478581/
		Guaicaipuro	Quebrada Los Paracotos	Near Los Paracotos Town	Jurassic-Cretaceous			Las Mercedes		AST-L1B.003:2016478581/
						Jurassic-Cretaceous		Caracas		Hoja 6847 Cartografía Nacional
			Rio Cuira	Guatopo Zone						
			Rio Macaira	Guatopo Zone	Cretaceous	Apa				
	Rio Taguaza	Guatopo Zone								
	Guaicaipuro	Central part Cordillera de La Costa	South-east Los Teques City/ North of Paracotos	Jurassic-Cretaceous			Las Mercedes		AST-L1B.003:2016478581/	
State	Mineral	District	Location	Location Relative	Age	Complex	Group	Formation	Official Map	ASTER VNIR





WRS-2 Path / Row: 4 53 Go

Lat / Long: 10.1 -66.9 Go

Max Cloud: 10% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:

ID: AST\_L1B.003:2016478581

Cloud Cover: 2%

Date: 2000/9/3

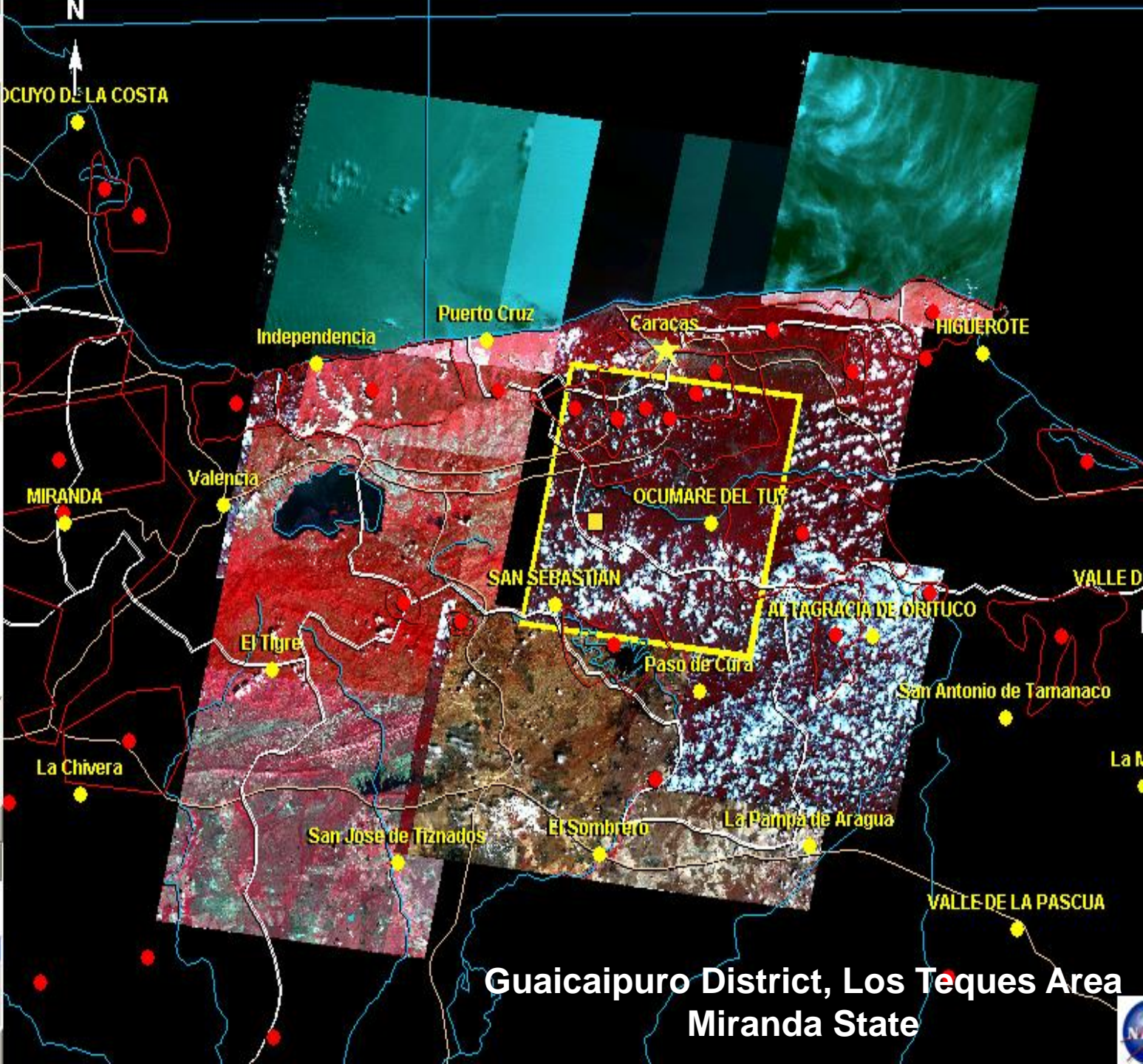
Sep 2000 Go

Prev Scene Next Scene

ASTER VNIR Scene List

AST_L1B.003:2016478581
------------------------

Add Delete Order



**Guacaipuro District, Los Teques Area  
Miranda State**



WRS-2 Path/Row: 4 53 Go

Lat/Long: 10.1 -66.9 Go

Max Cloud: 10% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:

ID: AST\_L1B.003:2016478581  
 Cloud Cover: 2%  
 Date: 2000/9/3

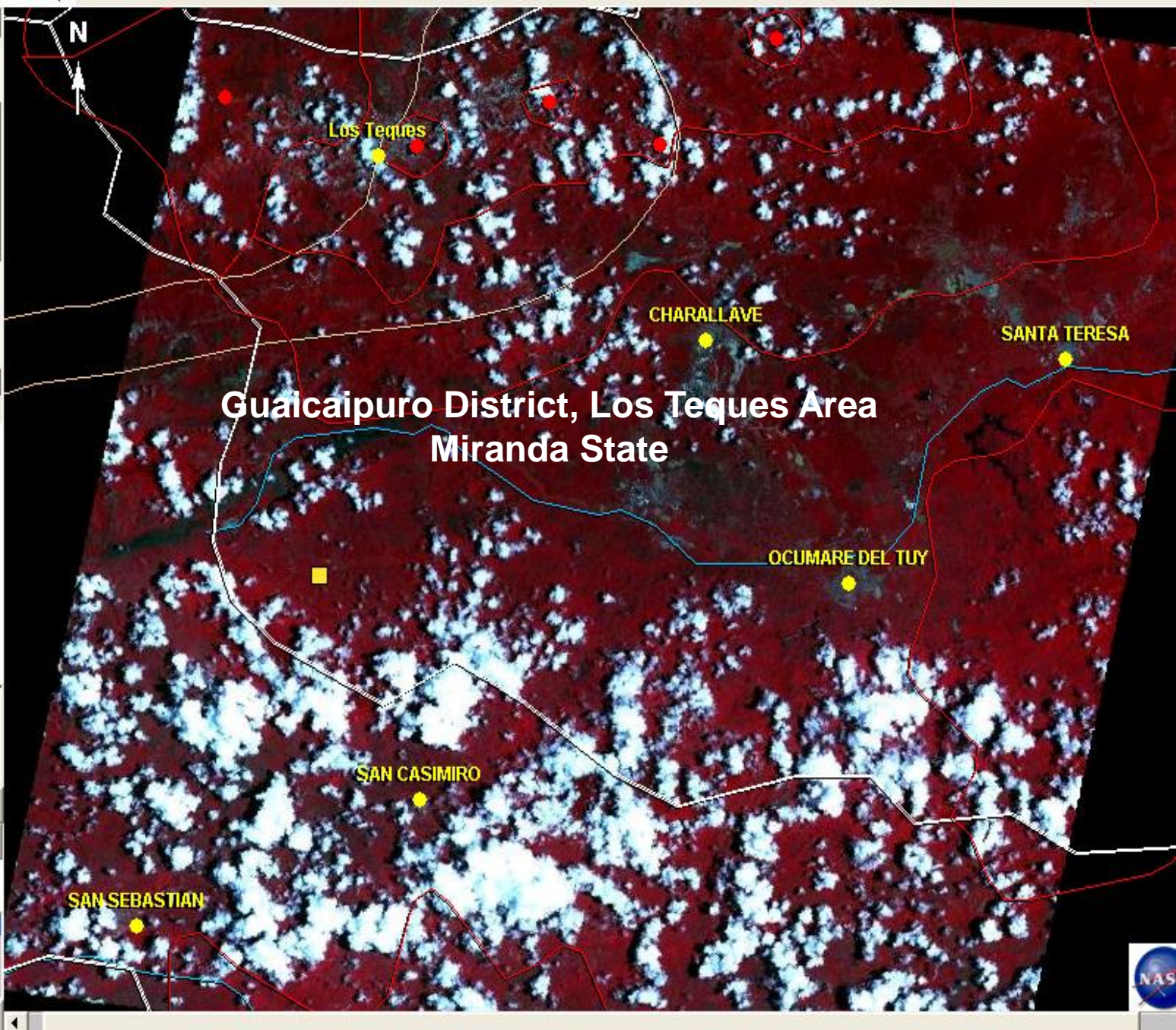
Sep 2000 Go

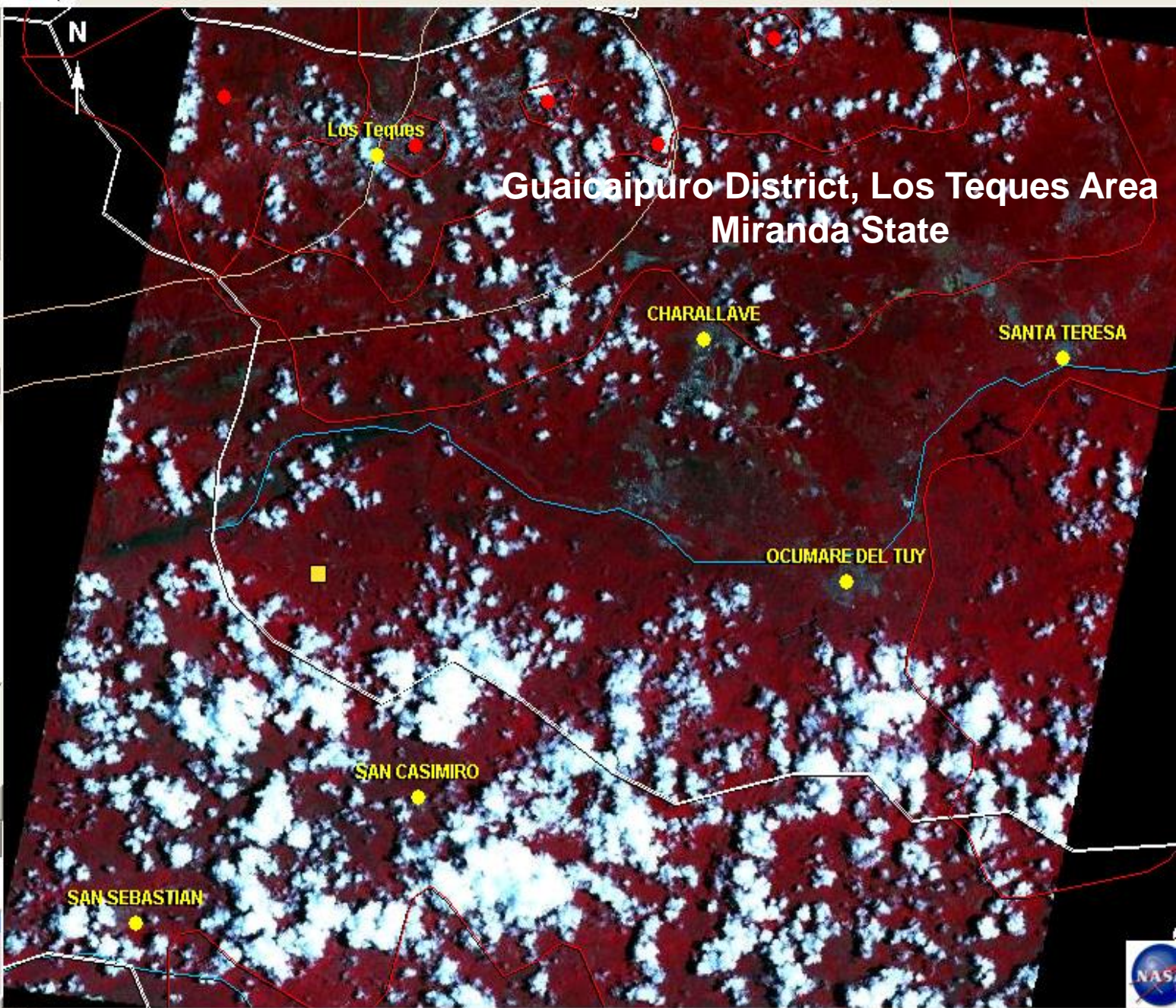
Prev Scene Next Scene

**ASTER VNIR Scene List**

AST_L1B.003:2016478581
------------------------

Add Delete Order





WRS-2 Path / Row:

Lat / Long:

Max Cloud:

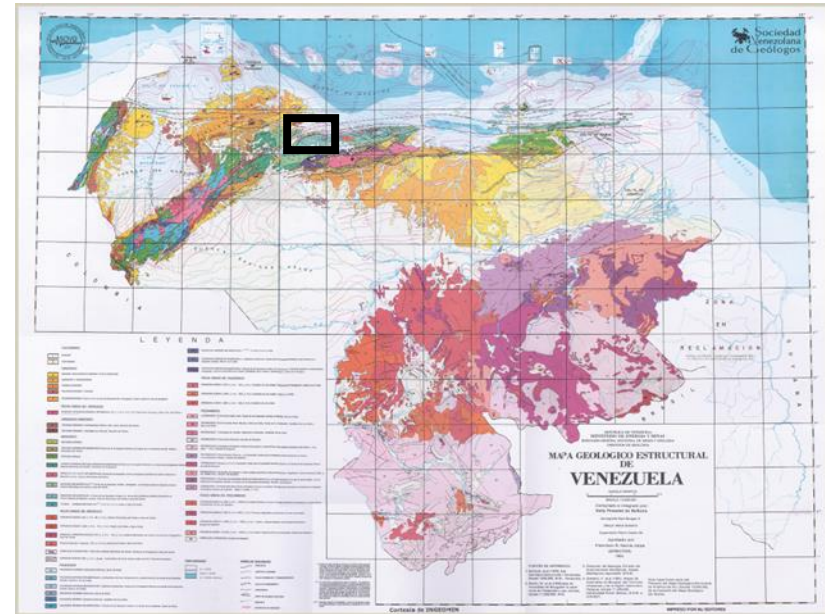
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 Cloud Cover: 2%  
 Date: 2000/9/3

Sep

**ASTER VNIR Scene List**

AST_L1B.003:2016478581
------------------------

# YARACUUY STATE



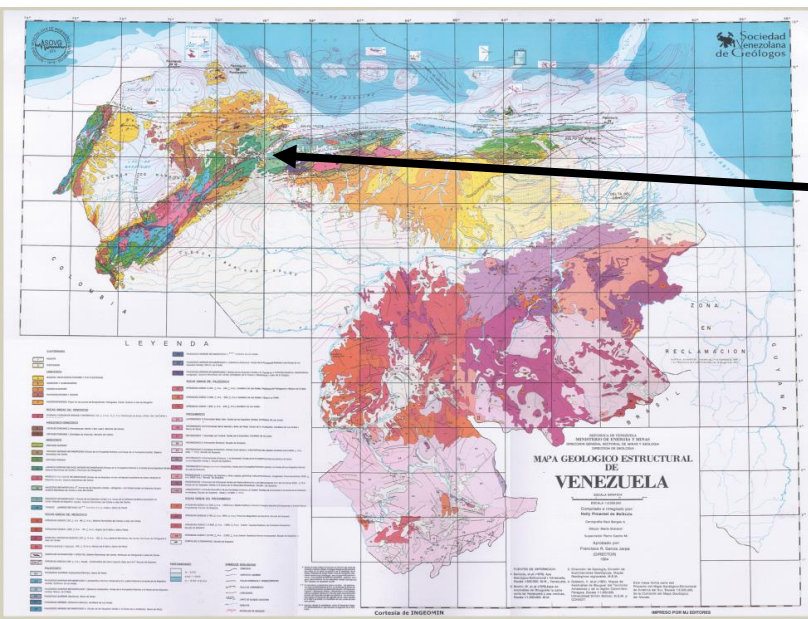
Certitude

Coincidences

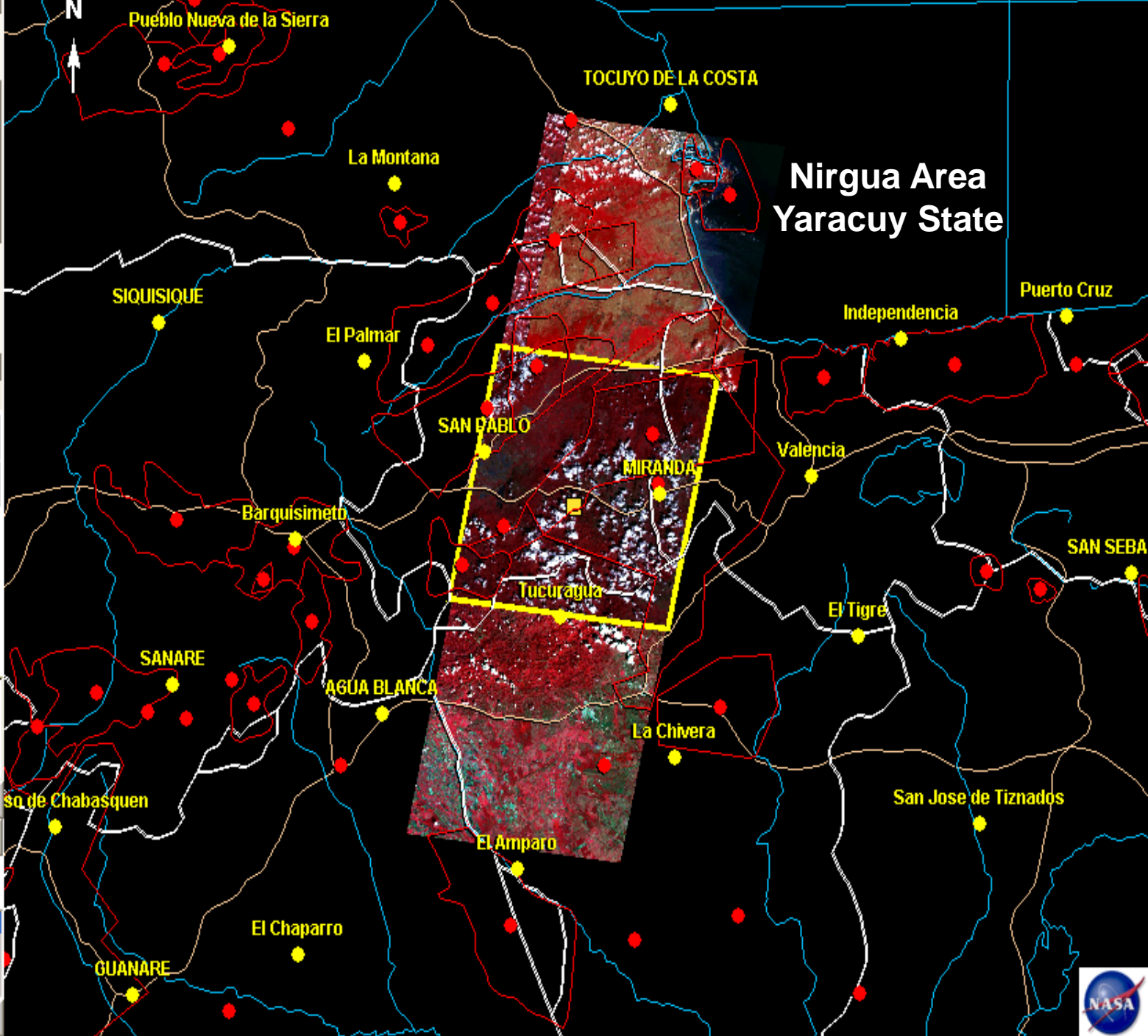
Lack of information

State	Mineral	District	Community	Location	Location Relative	Observations	Coordinates	Age	Formation	Facies	Official Map	ASTER VNIR
Yaracuy	Au		Municipio Autónomo Nirgua	Minas de Buria	Near to Nirgua town	Nirgua Area						AST_L1B.003:2005748159
		Urachiche		Urachiche		Urachiche Area				Nirgua		AST_L1B.003:2032885492
	Cu			Serrania Nirgua-Tucuragua		Nirgua Area		Mesozoic	Aroa		Hoja 6447 Cartografía Nacional	AST_L1B.003:2005748159
				Rio Nirgua		Nirgua Area		Mesozoic	Aroa		Hoja 6447 Cartografía Nacional	AST_L1B.003:2005748159
		Urachiche		Urachiche		Urachiche Area		Mesozoic			Nirgua	AST_L1B.003:2032885492
		Urachiche		El Junco		Urachiche Area	10° 12' 38" N / 68° 59' 18" W	Mesozoic			Nirgua	AST_L1B.003:2032885492
State	Mineral	District	Community	Location	Location Relative	Observations	Coordinates	Age	Formation	Facies	Official Map	ASTER VNIR





**AUTONOMO NIRGUA MUNICIPALITY  
YARACUY STATE**



# Nirgua Area Yaracuy State

WRS-2    5    53    Go  
Path / Row:  
Lat/    10.2    -68.6    Go  
Long:

Max Cloud:    0%  
↑    ↓

Scene Information:  
ID: AST\_L1B.003:2005748159  
Cloud Cover: 0%  
Date: 2002/1/3

Jan    2002    Go  
Prev Scene    Next Scene

ASTER VNIR Scene List

AST_L1B.003:2005748159
------------------------

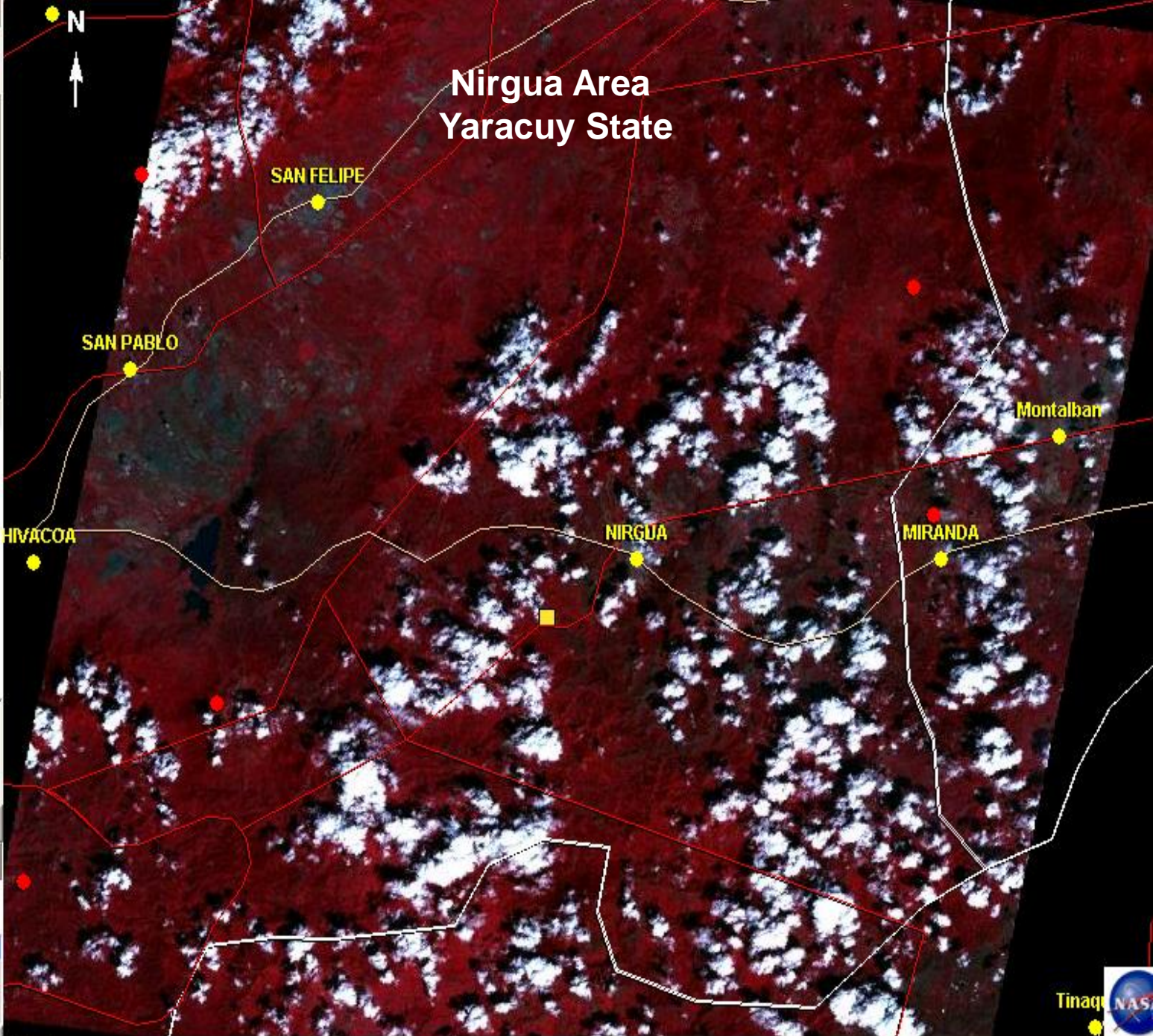
Add    Delete    Order

ASTER VNIR    400m    No Limits Set





# Nirgua Area Yaracuy State



WRS-2    5    53    Go

Path / Row:

Lat/    10.2    -68.6    Go

Long:

Max Cloud:    0%    [Left Arrow]    [Up Arrow]    [Right Arrow]    [Down Arrow]

Scene Information:

ID: AST\_L1B.003:2005748159

Cloud Cover: 0%

Date: 2002/1/3

Jan    2002    Go

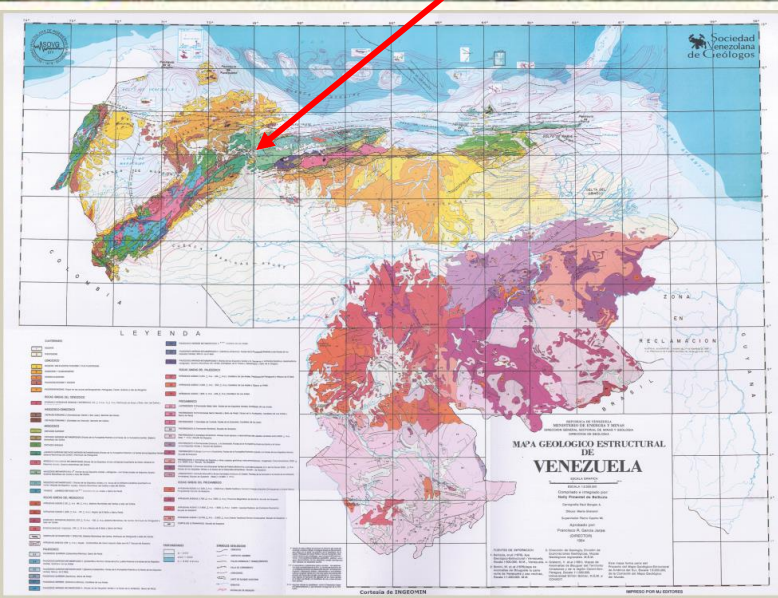
Prev Scene    Next Scene

**ASTER VNIR Scene List**

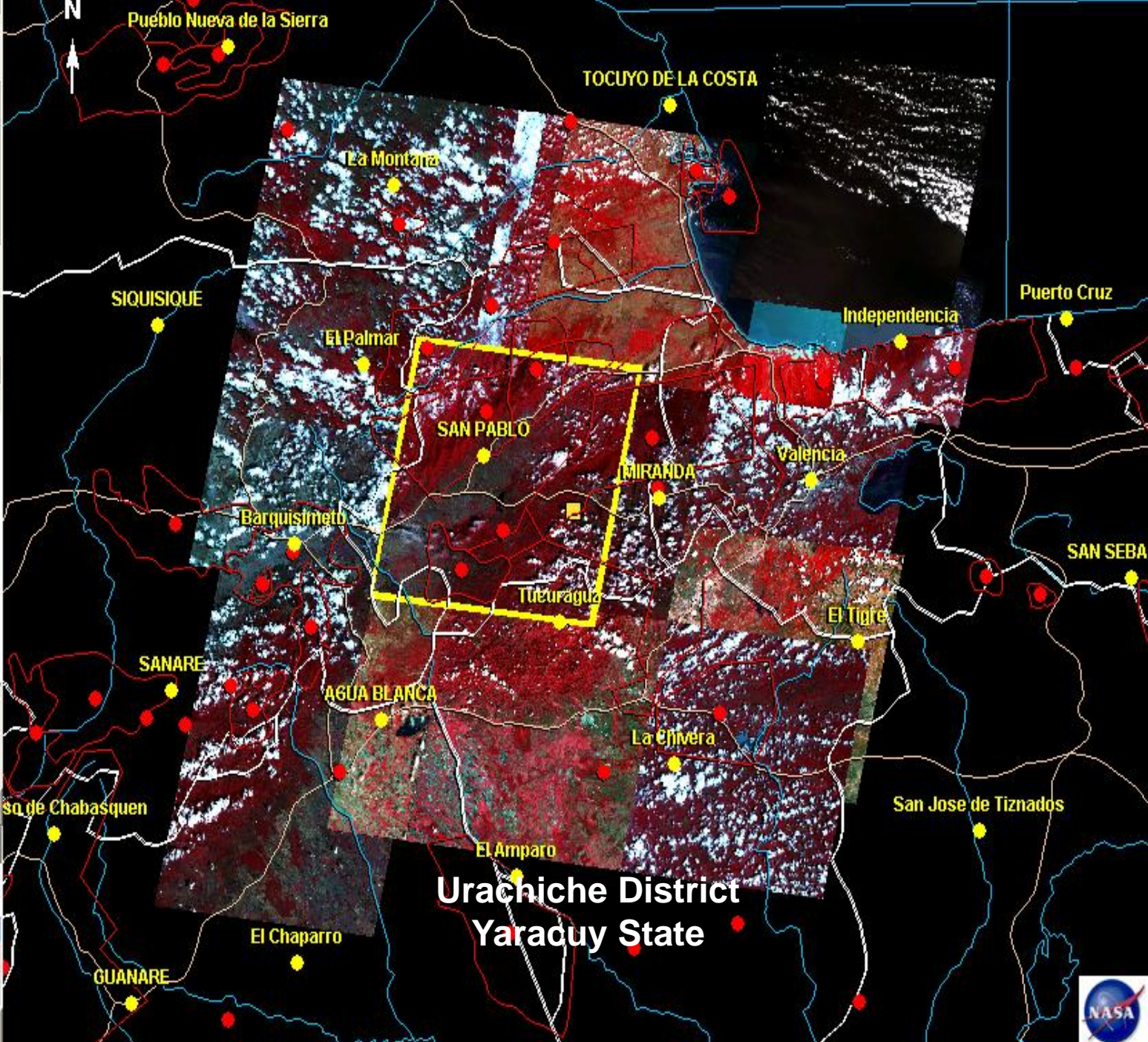
AST_L1B.003:2005748159
------------------------

Add    Delete    Order





**EL JUNCO, AUTONOMO URACHICHE MUNICIPALITY  
YARACUY STATE**



# Urachiche District Yaracuy State



WRS-2 Path / Row:

Lat/ Long:

Max Cloud:

Scene Information:  
 ID: AST\_L1B.003:2032885492  
 Cloud Cover: 8%  
 Date: 2006/1/30

Jan  2006

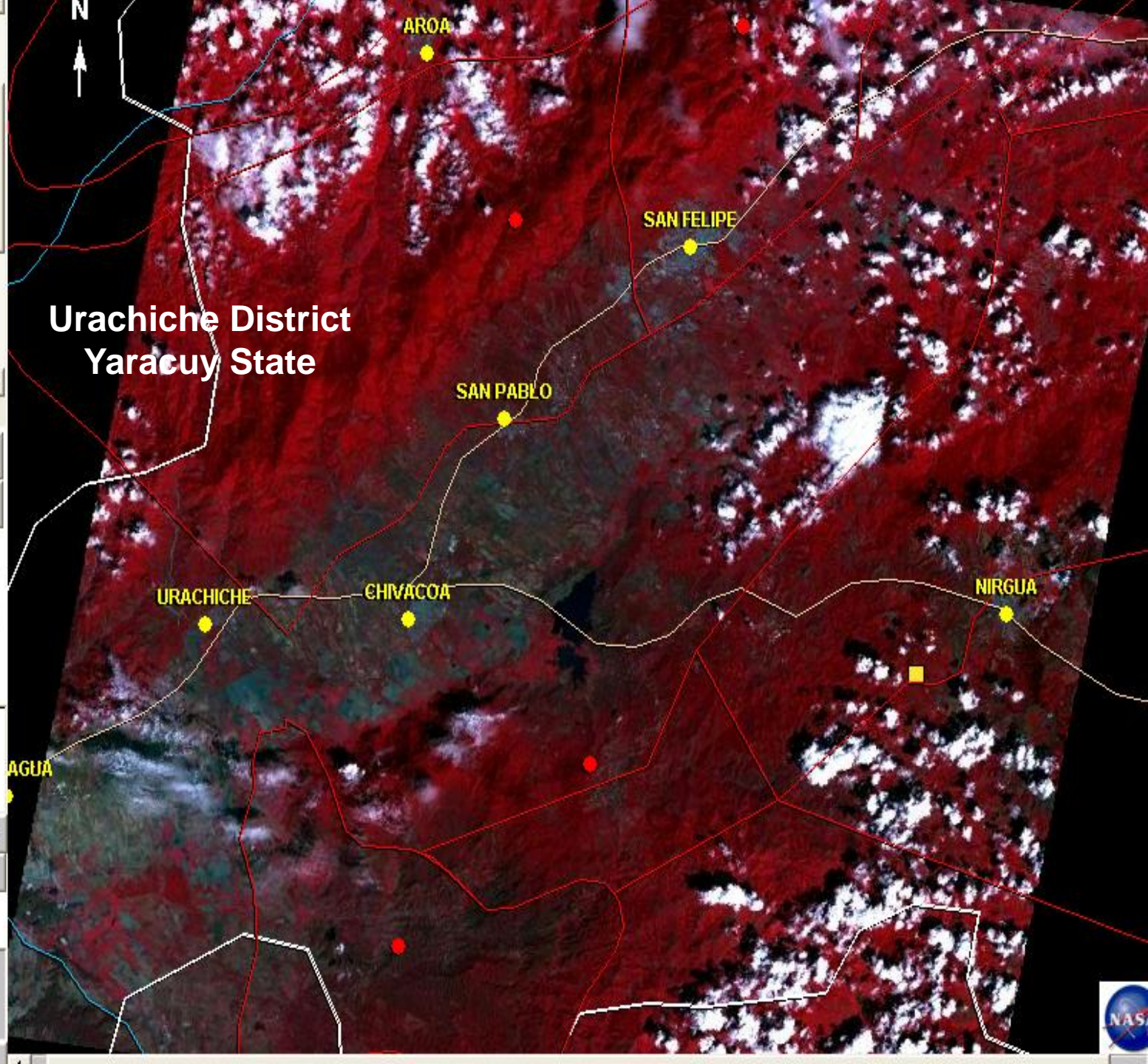
ASTER VNIR Scene List

AST_L1B.003:2032885492

ASTER VNIR 400m No Limits Set



# Urachiche District Yaracuy State



WRS-2 Path / Row: 5 53 Go

Lat / Long: 10.2 -68.8 Go

Max Cloud: 10% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:

ID: AST\_L1B.003:2032885492

Cloud Cover: 8%

Date: 2006/1/30

Jan 2006 Go

Prev Scene Next Scene

ASTER VNIR Scene List

Add	Delete	Copy
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WRS-2 Path / Row: 5 53 Go  
Lat/ Long: 10.3 -69.3 Go

Max Cloud: 10% [Left Arrow] [Up Arrow] [Down Arrow] [Right Arrow]

Scene Information:  
ID: AST\_L1B.003:2018139489  
Cloud Cover: 7%  
Date: 2001/6/9

Jun 2001 Go  
Prev Scene Next Scene

ASTER VNIR Scene List  
AST\_L1B.003:2018139489  
Add Delete Order

ASTER VNIR 90m No Limits Set

