

For Six Month Period Ending OCT 31 1998  
(Insert date)

**I - REGISTRANT**

1. (a) Name of Registrant (b) Registration No.  
Arianespace, Inc. 3673

(c) Business Address(es) of Registrant  
601 13th Street, Suite 710 North  
Washington, DC 20005

2. Has there been a change in the information previously furnished in connection with the following:

- (a) If an individual:
- |                       |                              |                             |
|-----------------------|------------------------------|-----------------------------|
| (1) Residence address | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (2) Citizenship       | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (3) Occupation        | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
- (b) If an organization:
- |                          |                              |  |
|--------------------------|------------------------------|--|
| (1) Name                 | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| (2) Ownership or control | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| (3) Branch offices       | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
- (c) Explain fully all changes, if any, indicated in items (a) and (b) above.

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IF THE REGISTRANT IS AN INDIVIDUAL, OMIT RESPONSE TO ITEMS 3, 4, AND 5(a).

3. If you have previously filed Exhibit C<sup>1</sup>, state whether any changes therein have occurred during this 6 month reporting period.

Yes  No

If yes, have you filed an amendment to the Exhibit C? Yes  No

If no, please attach the required amendment.

CRM/RECORDS DIVISION  
90 OCT 30 PM 12:39

<sup>1</sup> The Exhibit C, for which no printed form is provided, consists of a true copy of the charter, articles of incorporation, association, and by laws of a registrant that is an organization. (a waiver of the requirement to file an Exhibit C may be obtained for good cause upon written application to the Assistant Attorney General, Criminal Division, Internal Security Section, U.S. Department of Justice, Washington, D.C. 20530.)

4. (a) Have any persons ceased acting as partners, officers, directors or similar officials of the registrant during this 6 month reporting period? Yes  No

If yes, furnish the following information:

Name Position Date Connection Ended

(b) Have any persons become partners, officers, directors or similar officials during this 6 month reporting period? Yes  No

If yes, furnish the following information:

Name Residence Address Citizenship Position Date Assumed

5. (a) Has any person named in item 4(b) rendered services directly in furtherance of the interests of any foreign principal? Yes  No

If yes, identify each such person and describe his service.

(b) Have any employee or individuals, who have filed a short form registration statement, terminated their employment or connection with the registrant during this 6 month reporting? Yes  No

If yes, furnish the following information:

Name Position or connection Date terminated

(c) During this six month reporting period, has the registrant hired as employees or in any other capacity, any persons who rendered or will render services to the registrant directly in furtherance of the interests of any foreign principal(s) in other than a clerical or secretarial, or in a related or similar capacity? Yes  No

If yes, furnish the following information:

Name Residence Address Citizenship Position Date Assumed

6. Have short form registration statements been filed by all of the persons named in Items 5(a) and 5(c) of the supplemental statement? Yes  No

If no, list names of persons who have not filed the required statement.

NA

## II - FOREIGN PRINCIPAL

7. Has your connection with any foreign principal ended during this 6 month reporting period?

Yes       No

If yes, furnish the following information:

*Name of foreign principal*

*Date of termination*

8. Have you acquired any new foreign principal<sup>2</sup> during this 6 month reporting period?

Yes       No

If yes, furnish following information:

*Name and address of foreign principal*

*Date acquired*

9. In addition to those named in Items 7 and 8, if any, list foreign principals<sup>2</sup> whom you continued to represent during the 6 month reporting period.

Arianespace, SA  
Boulevard de l'Europe  
B.P. 177  
91006 Evry France CEDEX

10. **EXHIBITS A AND B**

(a) Have you filed for each of the newly acquired foreign principals in Item 8 the following:

Exhibit A <sup>3</sup>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA
Exhibit B <sup>4</sup>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

If no, please attach the required exhibit.

(b) Have there been any changes in the Exhibits A and B previously filed for any foreign principal whom you represented during this six month period?      Yes       No

If yes, have you filed an amendment to these exhibits?      Yes       No

If no, please attach the required amendment.

2 The term "foreign principal" includes, in addition to those defined in section 1(b) of the Act, an individual organization any of whose activities are directly or indirectly supervised, directed, controlled, financed, or subsidized in whole or in major part by a foreign government, foreign political party, foreign organization or foreign individual. (See Rule 100(a) (9)). A registrant who represents more than one foreign principal is required to list in the statements he files under the Act only those principals for whom he is not entitled to claim exemption under Section 3 of the Act. (See Rule 208.)

3 The Exhibit A, which is filed on form CRM-157 (Formerly OBD-67) sets forth the information required to be disclosed concerning each foreign principal.

4 The Exhibit B, which is filed on Form CRM-155 (Formerly OBD-65) sets forth the information concerning the agreement or understanding between the registrant and the foreign principal.

## III - ACTIVITIES

11. During this 6 month reporting period, have you engaged in any activities for or rendered any services to any foreign principal named in Items 7, 8, and 9 of this statement? Yes  No

If yes, identify each such foreign principal and describe in full detail your activities and services:

During the reporting period, the registrant continued to provide marketing and sales support in the United States market area for the satellite launch services of Arianespace, SA. This activity consists of sales presentations and discussions with potential customers concerning the technical and business aspects of Arianespace services, follow up with current customers to ensure continued satisfaction, and representation of the company at symposia and conferences, occasionally as a speaker or participant.

12. During this 6 month reporting period, have you on behalf of any foreign principal engaged in political activity<sup>5</sup> as defined below? Yes  No

If yes, identify each such foreign principal and describe in full detail all such political activity, indicating, among other things, the relations, interests and policies sought to be influenced and the means employed to achieve this purpose. If the registrant arranged, sponsored or delivered speeches, lectures or radio and TV broadcasts, give details as to dates, places, of delivery, names of speakers and subject matter.

13. In addition to the above described activities, if any, have you engaged in activity on your own behalf which benefits any or all of your foreign principals? Yes  No

If yes, describe fully.

<sup>5</sup> The term "political activities" means any activity that the person engaging in believes will, or that the person intends to, in any way influence any agency or official of the Government of the United States or any section of the public within the United States with reference to formulating, adopting or changing the domestic or foreign policies of the United States or with reference to political or public interests, policies, or relations of a government of a foreign country or a foreign political party.

## IV - FINANCIAL INFORMATION

## 14. (a) RECEIPTS-MONIES

During this 6 month reporting period, have you received from any foreign principal named in Items 7, 8, and 9 of this statement, or from any other source, for or in the interests of any such foreign principal, any contributions, income or money either as compensation or otherwise? Yes  No

If no, explain why.

If yes, set forth below in the required detail and separately for each foreign principal an account of such monies<sup>6</sup>

Date	From Whom	Purpose	Amount
5/11/98	Arianespace, Inc.	Commissions	395,577.50
7/3/98	Same	Commissions	50,000.00
9/30/98	Same	Commissions	238,162.50
10/31/98	Same	Commissions	1,086,581.10
6/15/98	Same	Reimbursement	35,746.91
9/30/98	Same	Reimbursement	131,752.73
10/31/98	Same	Reimbursement	36,000.00
			1,973,820.74
			Total

## (b) RECEIPTS - FUND RAISING CAMPAIGN

During this 6 month reporting period, have you received, as part of a fund raising campaign<sup>7</sup>, any money on behalf of any foreign principal named in items 7, 8, and 9 of this statement? Yes  No

If yes, have you filed an Exhibit D to your registration? Yes  No

If yes, indicate the date the Exhibit D was filed. Date \_\_\_\_\_

## (c) RECEIPTS-THINGS OF VALUE

During this 6 month reporting period, have you received any thing of value<sup>9</sup> other than money from any foreign principal named in Items 7, 8, and 9 of this statement, or from any other source, for or in the interests of any such foreign principal?

Yes  No

If yes, furnish the following information:

Name of foreign principal	Date received	Description of thing of value	Purpose
---------------------------	---------------	-------------------------------	---------

<sup>6, 7</sup> A registrant is required to file an Exhibit D if he collects or receives contributions, loans, money, or other things of value for a foreign principal, as part of a fund raising campaign. (See Rule 201(e).)

<sup>8</sup> An Exhibit D, for which no printed form is provided, sets forth an account of money collected or received as a result of a fund raising campaign and transmitted for a foreign principal.

<sup>9</sup> Things of value include but are not limited to gifts, interest free loans, expense free travel, favored stock purchases, exclusive rights, favored treatment over competitors, "kickbacks," and the like.

15. (a) **DISBURSEMENTS-MONIES**

During this 6 month reporting period, have you

(1) disbursed or expended monies in connection with activity on behalf of any foreign named in Items 7, 8, and 9 of this statement?      Yes       No

(2) transmitted monies to any such foreign principal?      Yes       No

If no, explain in full detail why there were no disbursements made on behalf of any foreign principal.

If yes, set forth below in the required detail and separately for each foreign principal an account of such monies, including monies transmitted, if any, to each foreign principal.

Date	To Whom	Purpose	Amount
May 1998- October 1998	Office Staff and benefits suppliers	Personnel Expenses	326,945.37
Same	Office Service suppliers	Office Operating Expenses	162,134.38
Same	Airlines, Hotels, etc.	Travel Expenses	165,636.61
Same	Various Restaurants	Business Entertainment	125,630.58
Same	Miscellaneous	Other operating expenses (consulting, legal, accounting, etc.)	191,980.39

972,327.33

Total

**(b) DISBURSEMENTS-THINGS OF VALUE**

During this 6 month reporting period, have you disposed of anything of value<sup>10</sup> other than money in furtherance of or in connection with activities on behalf of any foreign principal named in Items 7, 8, and 9 of this statement?

Yes No 

If yes, furnish the following information:

Date disposed	Name of person to whom given	On behalf of what foreign principal	Description of thing of value	Purpose
---------------	------------------------------	-------------------------------------	-------------------------------	---------

**(c) DISBURSEMENTS-POLITICAL CONTRIBUTIONS**

During this 6 month reporting period, have you from your own funds and on your own behalf either directly or through any other person, made any contributions of money or other things of value<sup>11</sup> in connection with an election to any political office, or in connection with any primary election, convention, or caucus held to select candidates for political office?

Yes No 

If yes, furnish the following information:

Date	Amount or thing of value	Name of political organization	Name of candidate
------	--------------------------	--------------------------------	-------------------

V - INFORMATIONAL MATERIALS

16. During this 6 month reporting period, did you prepare, disseminate or cause to be disseminated any informational materials<sup>12</sup>?  
Yes  No

IF YES, RESPOND TO THE REMAINING ITEMS IN SECTION V.

17. Identify each such foreign principal.

18. During this 6 month reporting period, has any foreign principal established a budget or allocated a specified sum of money to finance your activities in preparing or disseminating informational materials? Yes  No

If yes, identify each such foreign principal, specify amount, and indicate for what period of time.

19. During this 6 month reporting period, did your activities in preparing, disseminating or causing the dissemination of informational materials include the use of any of the following:

- Radio or TV broadcasts
- Magazine or newspaper articles
- Motion picture films
- Letters or telegrams
- Advertising campaigns
- Press releases
- Pamphlets or other publications
- Lectures or speeches
- Other (specify) \_\_\_\_\_

20. During this 6 month reporting period, did you disseminate or cause to be disseminated informational materials among any of the following groups:

- Public Officials
- Newspapers
- Libraries
- Legislators
- Editors
- Educational institutions
- Government agencies
- Civic groups or associations
- Nationality groups
- Other (specify) \_\_\_\_\_

21. What language was used in the informational materials:  
 English  Other (specify) \_\_\_\_\_

22. Did you file with the Registration Unit, U.S. Department of Justice a copy of each item of such informational materials disseminated or caused to be disseminated during this 6 month reporting period? Yes  No

23. Did you label each item of such informational materials with the statement required by Section 4(b) of the Act? Yes  No

<sup>12</sup> The term informational materials includes any oral, visual, graphic, written, or pictorial information or matter of any kind, including that published by means of advertising, books, periodicals, newspapers, lectures, broadcasts, motion pictures, or any means or instrumentality of interstate or foreign commerce or otherwise. Informational materials disseminated by an agent of a foreign principal as part of an activity in itself exempt from registration, or an activity which by itself would not require registration, need not be filed pursuant to Section 4(b) of the Act.

**VI--EXECUTION**

In accordance with 28 U.S.C. § 1746, the undersigned swear(s) or affirm(s) under penalty of perjury that he/she has (they have) read the information set forth in this registration statement and the attached exhibits and that he/she is (they are) familiar with the contents thereof and that such contents are in their entirety true and accurate to the best of his/her (their) knowledge and belief, except that the undersigned make(s) no representation as to truth or accuracy of the information contained in the attached Short Form Registration Statement(s), if any, insofar as such information is not within his/her (their) personal knowledge.

(Date of signature)

November 24, 1998

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Type or print name under each signature<sup>13</sup>)

*Douglas A. Heydon*

Douglas A. Heydon

President

\_\_\_\_\_

<sup>13</sup> This statement shall be signed by the individual agent, if the registrant is an individual, or by a majority of those partners, officers, directors or persons performing similar functions, if the registrant is an organization, except that the organization can, by power of attorney, authorize one or more individuals to execute this statement on its behalf.

UNITED STATES DEPARTMENT OF JUSTICE  
FARA REGISTRATION UNIT  
CRIMINAL DIVISION  
WASHINGTON, D.C. 20530

**NOTICE**

Please answer the following questions and return this sheet in triplicate with your Supplemental Statement:

1. Is your answer to Item 16 of Section V (Informational Materials - page 8 of Form CRM-154, formerly Form OBD-64-Supplemental Statement):

YES \_\_\_\_\_ or NO \_\_\_\_\_ xx

(If your answer to question 1 is "yes" do not answer question 2 of this form.)

2. Do you disseminate any material in connection with your registration:

YES \_\_\_\_\_ xx or NO \_\_\_\_\_

(If your answer to question 2 is "yes" please forward for our review copies of all material including: films, film catalogs, posters, brochures, press releases, etc. which you have disseminated during the past six months.)

Douglas A. Heydon  
Signature

11/23/98  
Date

Douglas A. Heydon  
Please type or print name of  
signatory on the line above

President  
Title

030865

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FARA REGISTRATION UNIT



Press Release 98/14  
Washington, May 14th, 1998

<http://www.arianespace.com>  
**A NEW WORLD WIDE WEB SITE FOR  
ARIANESPACE**

**Arianespace introduces its revamped World Wide Web site Monday, May 18 providing an informative and active presence on the Internet for Arianespace's customers, the aerospace industry, the news media, and the public.**

The new Web site's activation is timed with the opening of the ILA'98 air show and exhibition in Berlin, Germany where Arianespace is an exhibitor.

"Our new Web site will become the source in 'nearly real time' of current and accurate information on Arianespace and our commercial, industrial and operational activities. As a commercial launch services industry leader, it is natural that Arianespace recognizes the benefits of this international network by feeding the Internet with our own information," said Patrice Albrecht, Arianespace's Vice President of Communication and International Affairs.

The Web site's features include continually updated news on Arianespace's launch campaigns, the latest company announcements and press releases, as well as on-the-scene updates from major international air shows, other key events where Arianespace is present, and even learn how to launch a satellite with Ariane.

Arianespace's popular monthly newsletter, "e.space", will be posted on the Web site.

**Daily information on Arianespace's participation at the Berlin show will be posted on the Web site, along with a report from the May 19 ILA'98 press conference of Arianespace Chairman and CEO, Jean-Marie Luton.**

The Arianespace Web site can be accessed at:  
<http://www.arianespace.com>

Marie-Vincente Padeloup, **ARIANESPACE, Inc.**, Tel. (202) 628-3936,  
[mvp@arianespace-inc.com](mailto:mvp@arianespace-inc.com)  
Claude Sanchez, **ARIANESPACE, S.A.**, Tel. (33/1) 60 87 60 13  
Richard Bowles, **ARIANESPACE SINGAPORE**, Tel. (65) 223 6426  
Jacques Roelandts, **ARIANESPACE TOKYO**, Tel. (813) 3592.2766

PRESS INFORMATION

CRM/ISS/TECHNICAL UNIT

Ch. de SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel: (33.1) 60 87 60 14/60 13  
Fax: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel: 202-628-3936  
Fax: 202-628-3949

Richard BOWLES  
Director  
ASIAN Office, Singapore  
Tel: (65) 223 6426  
Fax: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel: (81.3) 3592-2766  
Fax: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel: (594) 33 68 78/79  
Fax: (594) 33 62 66

<http://www.arianespace.com>



Press Release 98/15  
Washington, May 19, 1998

## ARIANESPACE FACING THE SPACE TRANSPORTATION CHALLENGE

**Arianespace is facing a market environment undergoing a profound quantitative and qualitative transformation, while competition is fiercer and more diversified than ever. Arianespace Chairman and CEO Jean-Marie Luton has outlined the way the company intends to meet this challenge.**

### ADAPTING TO THE MARKET

The development of new space applications, in particular telecommunications via satellite, is driving a significant increase in demand, along with its diversification. Demand is projected at 60 to 90 launches per year for the period 2001-2005, including 40 to 70 commercial launch contracts attainable to Arianespace.

By about 2002-2003, some 40 to 50% of the market could be generated by satellite constellations in low or medium earth orbit, providing mobile telephone and broadband multimedia services. No matter which type of orbit is used or the application provided, satellites continue to grow in size. Satellites weighing 5 metric tons (11,000 lb) will appear starting in 2000, and by 2005 most telecommunications satellites will weigh over 4 metric tons (8,800 lb).

### COMPETITIVENESS

Arianespace will offer the lowest possible launch prices, based on ongoing reductions in Ariane 5 production costs. At the same time, performance of the European launcher will be significantly improved to lower the cost per kilo into orbit, while at the same time maintaining high quality and reliability.

### FLEXIBILITY

To expand its services beyond the traditional geostationary orbit segment, by providing its customers with a diversified array of launch services. These will be provided by new versions of the Ariane 5 heavy launcher, which features designed-in flexibility, plus additional launchers with complementary capabilities.

### INNOVATION

Commercial initiatives will move further upstream in the process, as Arianespace will support its customers' projects right from the initial design stage. Taking an entrepreneurial approach, this collaboration may also result in formal partnerships.

### FACING UP TO COMPETITION

The market is now going through a transition period, enabling Arianespace to capitalize on its long experience and advantages over its competitors. Arianespace has a number of assets supporting its drive to establish itself as the benchmark in all segments of the space transportation market. Proven service quality and experience built up over some twenty years translate into assets that are unrivaled in today's emerging competitive marketplace.

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33 1) 60 87 60 14/60  
Fax.: (33 1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
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Tel.: (81 3) 3592-2766  
Fax.: (81 3) 3592-2768

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Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
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## **RELIABILITY AND PROFICIENCY**

Ariane 4 boasts one of the best reliability records on the market. And based on the projected reliability rate for Ariane 5, Arianespace is offering a free re-launch in case of a failure of the new launcher. This reliability underpins the operational proficiency of the Ariane system, now capable of launching every three weeks.

## **AVAILABILITY AND ACCURACY**

The Ariane system offers an exceptional array of advantages, recognized by customers worldwide: flexibility and availability, based on high launch rates, different versions of the Ariane 4 launcher and service entry of Ariane 5 in 1998; and unmatched orbital injection accuracy, thanks to the equatorial launch site in French Guiana.

## **TRANSPARENCY AND SIMPLICITY**

The development and continuous improvement of Arianespace's complete launch services package is focused on a single goal: production and marketing of space transportation for all customers. Backed by a powerful European space industry, this dedication results in clear, transparent contractual and technical relations with satellite operators.

Based on these proven advantages, combined with a proven offering of reliable services allying quality and quantity, Arianespace is often the only provider not only to guarantee operators access to space, but also to give them the lead times and conditions that meet their operational and economic requirements.

## **MEETING THE CHALLENGE**

The advent of this intensely competitive environment will allow Arianespace to demonstrate its adaptability.

These developments mark a new era in the history of the commercial space market, as transport services become a mere commodity. Service providers now have to be able to launch any type of satellite into any type of orbit, and to do so on schedule!

Arianespace is strengthening its resources to become a space transportation operator offering a diversified range of products that cover all market segments.

## **ARIANE 5, THE UPGRADEABLE HEAVY LAUNCHER**

The various stages in the adaptation of Ariane 5 to evolving market requirements are now clearly defined: a restartable upper stage, to support orbital injection of new-generation constellation satellites starting in 2001; GTO launch capacity increased to 9 metric tons (19,800 lb) in 2001, and to 11 metric tons (24,200 lb) in 2005, to keep pace with the growth in satellite mass and maintain the competitive advantage of dual launch capability. At the same time, launcher production and launch rate will be increased to 12 per year as early as in 2002 and even higher subsequently.

## **DIVERSIFIED OFFERING**

Arianespace will span a wider range of market requirements, based on the concurrent operation of Ariane 4 and Ariane 5 through about 2002-2003, and the planned operation of launchers providing complementary capabilities.

Along the lines of the Starsem joint venture for Soyuz launches, Arianespace aims to set up a single structure to coordinate an array of launchers from different sources for constellation launch services, and to seek strategic alliances with new industrial partners.

## **PRODUCTION EFFICIENCY**

This approach is based on the extensive rationalization of Europe's industrial organization, within the framework of an Arianespace-led policy – one of the responsibilities of the European space transportation operator.



Press Release 98/16  
Washington, May 28, 1998

## ANIK F1: ARIANESPACE TO LAUNCH FOURTH CANADIAN SATELLITE

**Telesat of Canada has chosen Arianespace to launch its Anik F1 communications satellite in the year 2000.**

Meeting in Ottawa, Larry Boisvert, President and CEO of Telesat, and Jean-Marie Luton, Chairman and CEO of Arianespace, today signed the launch contract for the ANIK F1 communications satellite.

The launch from Europe's Spaceport in Kourou, French Guiana, will take place in the first quarter 2000, using an Ariane 44L launch vehicle.

ANIK F1 is the fourth satellite that Telesat has entrusted to the European launcher, following ANIK E2, launched in April 1991, ANIK E1 in September 1991, and MSAT 1 in April 1996.

Underscoring the importance of this contract, Arianespace Chairman Jean-Marie Luton noted, " We greatly appreciate the confidence that the major Canadian operator and space communications expert Telesat has once again placed in Arianespace. Furthermore, we are very pleased to consolidate our market position in Canada, despite increasingly fierce competition from North America. We also continue to demonstrate the Ariane launch system's competitiveness, by offering the reliability and availability that gives the world's leading operators a competitive edge. "

"ANIK F1 will be the cornerstone of Telesat's North America satellite business, and Telesat has once again entrusted Ariane to launch and deliver the first of these new and powerful spacecraft " said Larry Boisvert, Telesat's President and CEO. "Telesat continues to have great confidence in Arianespace, and that's why they will play a key role in a project that's of fundamental importance to our company and our customers. "

ANIK F1 will be built by Hughes Space and Communications in El Segundo, California, using its new HS 702 platform. It will weigh more than 4,500 kg (9,900 lb) at liftoff and will be equipped with 48 Ku-band and 36 C-band transponders.

Located at 107.3 degrees West, Anik F1 will provide telecommunications services for North America during its projected design life of 15 years.

Following this contract, Arianespace's order book now stands at 40 satellites to be launched.

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
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Washington, DC, U.S.A.  
Tel.: 202-628-3936  
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Claudia HOYAU  
Relations Exterieur  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>

ARIANESPACE/ASEAN INFORMATION UNIT

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Press Release 98/18  
Washington, June 16, 1998

## ARIANESPACE REPORTS 1997 RESULTS

The Annual General Meeting of Arianespace Shareholders in Paris on June 16, 1998, approved the company's financial statements for 1997.

### SOLID FINANCIAL FOUNDATIONS

Arianespace had sales of FF 6.563 million for 1997, compared with FF 6.286 million in 1996. These revenues were generated from the launch of 17 satellites by 11 Ariane 4 launchers. The company posted a net income of FF 77.4 million and paid out FF 16.2 million in dividends.

As of December 31, 1997, the total of the net financial position and provisions for the technical and commercial risks inherent to the launch services business stood at FF 3.942 million.

Since its creation in March 1980, Arianespace has always enjoyed a healthy financial position, which is fundamental to the company's international commercial credibility and to the continued confidence of its customers.

These results are in line with forecasts and reflect a transitional phase for the company as the new ARIANE 5 launcher is brought into service, requiring significant investments.

### CAPITAL INCREASE: INVESTING IN THE SPACE TRANSPORTATION SERVICES OF TOMORROW

Arianespace increased its share capital from FF 270 million to FF 2.088 million.

FF 829 million came from partial capitalization of reserves and FF 989 million from an issue of new shares for cash, subscribed by all the company's shareholders in proportion to their respective stakes. The capital increase will fund the investments required to ensure the ongoing success of the European space transport industry, notably the operation of the Ariane 5 launcher and its continuous adaptation to market demand.

### FLEXIBILITY AND OPERATIONAL MATURITY

Arianespace and its operational teams carried out 12 launches in 1997, including the second qualification flight of the Ariane 5 launch vehicle. The completion of seven launches in just five months between August and December of last year clearly underscored the company's ability to accelerate the launch rate to match increased rate of satellite availability.

- **Flight 93**, January 30: GE 2 (GE American Communications, USA) and NAHUEL 1A, Argentina's first telecommunications satellite (DASA of Germany for NahuelSat, Argentina),
- **Flight 94**, February 28: INTELSAT 801, the first series VIII satellite for the International organization INTELSAT,
- **Flight 95**, April 16: B-Sat 1a (Japan) and Thaicom 3 (Thailand),

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2766

Claudia HOYAU  
Relations Exterieur  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>

- **Flight 97**, June 3: INMARSAT 3F4 for the International Mobile Satellite Organization and INSAT-D (ISRO, India),
- **Flight 96**, June 25: INTELSAT 802,
- **Flight 98**, August 8: PAS 6 (PanAmSat Corp., USA),
- **Flight 99**, September 2: Hot Bird 3 for the European organization Eutelsat and METEOSAT 7 for the European organization Eumetsat,
- **Flight 100**, September 23: INTELSAT 803,
- **Flight 101**, October 30: second qualification flight for Ariane 5,
- **Flight 102**, November 12: SIRIUS 2 (NSAB, Sweden) and CAKRAWARTA 1 (Orbital Sciences Corporation, USA for Indovision, Indonesia),
- **Flight 103**, December 2: JC-Sat 5 (Japan Satellite Systems) and the EQUATOR S scientific satellite for Institut Max Planck (Germany),
- **Flight 104**, December 21: INTELSAT 804, the fourth launch of the year for the international organization Intelsat.

Over a 10-year period, Ariane 4 logged 78 flights. The operational success of this launch vehicle has resulted in a 97% reliability rate with a string of 36 successful launches in a row to date (from Flight 71 in March 1995 to Flight 108 in April 1998).

#### **EFFICIENT MANAGEMENT AND AVAILABILITY OF LAUNCH FACILITIES**

To provide satellite operators with access to space in the timeframes they require and under attractive terms, Arianespace guaranteed the medium-term availability of the Ariane 4 launcher by announcing an order for an additional 20 launchers on December 1st. These launchers will be used between 2002-2003 in parallel with Ariane 5 launchers, thus providing sufficient capacity to meet strong market demand.

In 16 years, the company has ordered a total of 150 Ariane launch vehicles from the European space industry: 14 Ariane 5 launchers, 116 Ariane 4 launchers, 17 Ariane 2-3 launchers and three Ariane 1 launchers.

#### **ARIANE 5 COMES ON BOARD**

Industrial production of the Ariane 5 launch vehicle began in 1997, along with the integration of this new launcher in Arianespace's operations.

The successful launch of Arianespace 502 (Flight 101) was executed under the responsibility of the French space agency, CNES, with extensive involvement of Arianespace operational teams. The initial elements of the first launcher in the batch ordered in 1995 subsequently arrived in French Guiana on May 13, 1998, in preparation for the third qualification flight, scheduled for October of this year.

On November 25 of last year, Arianespace took over management and operation of the entire Ariane 5 launch complex. Along with the ELA 2 launch complex, Arianespace will take over operation of the ELA 3 complex in

Kourou. Synergies between operating teams will be developed to achieve significant productivity gains.

### CONSOLIDATING A SOLID MARKET POSITION

Arianespace won 17 of the 30 launch contracts signed in the world last year. This confirms the company's leadership among commercial space transportation service providers in the market for geostationary satellites. International operators accounted for the majority of business in 1997.

Arianespace also confirmed the loyalty of key customers with new contracts, and earned the confidence of new major launch customers. In addition, the Ariane 5 launcher was selected for a major scientific mission.

Launch contracts signed in 1997:

- **ARABSAT 3A** (Aerospatiale for the Arab league),
- **CD Radio 1&2** (contracts recently cancelled due to a mission change rendering the satellites incompatible with the current capacities of Ariane 5),
- **KOREASAT 3** (Korea Telecom, Republic of Korea),
- **HOT BIRD 5** for Eutelsat,
- **INTELSAT 902, 903, 904** and **KTV**, marking a total of 21 satellites by INTELSAT entrusted to the European launcher.
- **LORALSAT** for Loral (USA),
- **SATMEX 5** for Satmex (Mexico),
- **PAS 1R** and **PAS 6B** for PanAmSat Corp. (USA),
- **SIRIUS 3** for NSAB (Sweden)
- **TELKOM 1** for the new Indonesian operator Telkom,
- **GE 5** (Dornier SatellitenSystems, Germany, for GE Americom, USA),
- **XMM**, a space telescope for the European Space Agency (ESA). Since January 1st, 1998, 4 new contracts has been signed:
- **STENTOR**, telecommunications technology demonstrator for the French space agency, CNES,
- **SUPERBIRD-4** for SCC (Japan),
- **ANIK F1** for Telesat (Canada),
- **EURASIASAT** with Aerospatiale for the new operator EURASIASAT (Turkey).

As of June 16, 1998, Arianespace had signed a total of 186 contracts, Arianespace's orderbook now stands at 39 satellites to be launched, worth approximately FF 20 billion.

### ADAPTING TO UNPLANNED FACTORS

The beginning of 1998 has been marked by a significant delay in deliveries of satellites to French Guiana.

Four successful launches have been completed so far this year:

- **Flight 105**, February 4: **BRASILSAT B3** (Embratel, Brazil) and **INMARSAT-3F5**,
- **Flight 106**, February 27: **HOTBIRD 4** (Eutelsat, Europe)

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- **Flight 107**, March 23: SPOT 4 (CNES, France),
- **Flight 108**, April 28: NILESAT 101 (MMS, France, for Nilesat, Egypt) and BSAT-1B (HSC, USA, for B-SAT, Japan).

#### ADAPTING TO UNPLANNED FACTORS

The beginning of 1998 has been marked by a significant delay in deliveries of satellites to French Guiana.

After four successful launches have been completed so far this year:

- **Flight 105**, February 4: BRASILSAT B3 (Embratel, Brazil) and INMARSAT-3F5,
- **Flight 106**, February 27: HOTBIRD 4 (Eutelsat, Europe)
- **Flight 107**, March 23: SPOT 4 (CNES, France),
- **Flight 108**, April 28: NILESAT 101 (MMS, France, for Nilesat, Egypt) and BSAT-1B (HSC, USA, for B-SAT, Japan),

Arianespace is preparing to increase its launch rate as of August to complete the launches of available satellites\*:

- AFRISTAR and ASIASTAR (Alcatel Space for WorldSpace, USA)
- EUTELSAT W2 (Eutelsat, Europe)
- GE 5 for GE American Communications (USA)
- INSAT 2E (ISRO, India)
- PAS 6B and PAS 7 (PanAmSat Corp., USA)
- SATMEX 5 (Satmex, Mexico)
- SIRIUS 3 (NSAB, Sweden)
- SKYNET 4E (MMS for Min. of Defence, Great Britain)
- ST1 (MMS for Singapore and Taiwan)
- TELKOM 1 (Telkom, Indonesia)

Seven ARIANE 4 and two ARIANE 5 will place into orbit these satellites according the following schedule:

- Flight 109, end of August,
- Flight 110, mid-September,
- Flight 111, beginning of October,
- **ARIANE 503** - Flight 112 with the Atmospheric Reentry Demonstrator (ESA) and an instrumented platform representative of a telecommunications satellite,
- Flight 113, end of October,
- Flight 114, mid-November,
- Flight 115, beginning December,
- Flight 116, end of December,
- **ARIANE 504** – Flight 117, early January 1999.

Both production capacity in Europe and operational resources in French Guiana, associated with the proven experience of Arianespace teams, should enable the company to achieve its objective of 11 Ariane 4 launches and one Ariane 5 launch in 1998 while maintaining the quality and reliability customers expect from its space transportation services.

*\* This launch calendar is subject to change at any time.*

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766



Press release 98/19  
Washington, June 22, 1998

## ARIANESPACE – EMBRATEL : A PERFECT MATCH

**Brazilian telecom operator Embratel has again chosen Arianespace to launch its sixth telecommunications satellite. The launch of BRASILSAT B4 is scheduled for the end of 1999.**

Arianespace and Embratel today announced the signature of a contract for the launch of the BRASILSAT B4 satellite. The launch is scheduled for late 1999 from Europe's Spaceport in Kourou, French Guiana, on an Ariane 4 launcher.

BRASILSAT B4 is the sixth satellite entrusted to the European launcher by Brazil. It follows BRASILSAT S1, launched in February 1985, BRASILSAT S2 in March 1986 and BRASILSAT B1, B2 and B3, placed into orbit in August 1994, March 1995 and February 1998, respectively.

Commenting on this latest contract, Arianespace Chairman Jean-Marie Luton noted, "This new contract underlines Embratel's recognition of the three key advantages of the service offered by Arianespace.

"The combination of the Ariane 4 and Ariane 5 systems gives us very significant launch capacity, as these launchers will be operated simultaneously as of 1999, when BRASILSAT B4 will be launched. We also offer greater flexibility thanks to dual payload launches, substantially increasing opportunities for access to space. "Last but not least, the proven responsiveness of Arianespace enables us to accommodate the commercial priorities of our customers while addressing the unplanned factors inherent to the space transportation business. This major Brazilian operator has once again expressed the complete confidence in the European launcher that has marked our relationship with Embratel during the past 16 years."

The BRASILSAT B4 satellite will be built by Hughes Space and Communications in El Segundo, California, using an HS 376W platform. Weighing 1,750 kg (3,850 lb) at liftoff, it will be equipped with 24 C-band and four extended C-band transponders.

BRASILSAT B4 will be placed into position at 99° West, from where it will work with BRASILSAT B1, B2 and B3 to provide a full range of communications services, handling data and television transmissions, as well as telephone traffic all over Brazil.

With this fifth contract of 1998, Arianespace's orderbook stands at 40 satellites to be launched.

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELoup  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



Press Release 98/21  
Washington, August 26, 1998

## ARIANESPACE FLIGHT 109: NEW SUCCESS FOR ASIA

On August 25, 1998, Arianespace successfully launched ST-1, the first telecommunications satellite operated by Chunghwa Telecom of Taiwan and Singapore Telecom. The launch was carried out within the scope of a contract with Matra Marconi Space.

Flight 109 was carried out by an Ariane 44P, the version of the European launcher with four solid-propellant strap-on boosters. It used the 79<sup>th</sup> Ariane 4 launcher out of the 116 ordered to date from the European space industry.

Liftoff from Europe's Spaceport in Kourou, French Guiana, took place on Tuesday, August 25, 1998 at:

- 8:07 pm local time
- or 11:07 pm GMT
- or 7:07 pm in Washington, DC
- or 1:07 am in Paris (Wednesday, August 26, 1998)
- or 7:07 am in Singapore and Taiwan (Wednesday, August 26, 1998)

Moments after this 37th successful Ariane 4 launch in a row, Arianespace Chairman and CEO Jean-Marie Luton said, "This evening we are honored to serve two new operators, Singapore Telecom and Chunghwa Telecom of Taiwan. Their ST-1 satellite was placed in orbit under optimum conditions and deadlines. Taiwan and Singapore now have first-hand experience of the very best in space transportation service. This latest success further consolidates the European launcher's leading role in the Asia-Pacific region, with over 50% of the telecommunications satellites launched by Arianespace to date."

Provisional parameters at third stage injection into geostationary orbit were:

- Perigee: 280.4 km for a target of 280 ( $\pm 3$ ) km
- Apogee: 35,976 km for a target of 35,943 ( $\pm 150$ ) km
- Inclination: 3,973 degrees for a target of 4.00 ( $\pm 0.06^\circ$ ) degrees.

ST-1 was designed and built by Matra Marconi Space. Weighing 3,255 kg (7,161 lb) at liftoff, it is equipped with 16 Ku-band and 14 C-band transponders and will cover an area extending from the Middle East to the Far East, from its orbital position over the Indian Ocean at 88° East. Developing 6.5 kW of power, ST-1 will be one of the most powerful telecom satellites in orbit over Asia.

The next Arianespace launch, Flight 110, is scheduled for September 14, 1998. An Ariane 44LP will loft into orbit the international telecommunications satellite PAS-7 for PanAmSat Corporation of the United States.

Following Flight 109, Arianespace has now on order 39 satellites to be launched.

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincent PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieur  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



Press release 98/23  
Washington, September 15, 1998

## EIGHTH INDIAN SATELLITE FOR ARIANE

**The Indian space research organization, ISRO has once again chosen Arianespace to loft its Insat 3B satellite in 1999.**

Arianespace today announced the signing of a launch contract for India's Insat 3B telecommunications satellite. The contract was signed by Dr. Krishnaswamy Kasturirangan, Chairman of ISRO, and Jean-Marie Luton, Chairman and CEO of Arianespace. Scheduled for launch in the second quarter of 1999, Insat 3B will be the eighth Indian satellite entrusted to the Ariane launcher. The launch will be carried out by either an Ariane 4 or 5 launcher from Europe's Spaceport in Kourou, French Guiana.

Emphasizing the significance of this contract, Jean-Marie Luton said, "I would particularly like to thank the Indian government for their loyalty to Arianespace in once again selecting our launch services. This choice by one of the world's leading space nations reflects India's sustained confidence and the ongoing cooperation between ISRO and Arianespace."

Insat 3B is a third-generation satellite of the Insat program. Built by ISRO in Bangalore, southern India, this high-power satellite will weigh approximately 2,070 kg (4,554 lb) at liftoff. Fitted with seventeen C-band, six Ku-band and three S-band transponders, it will provide the whole of the Indian continent with domestic telecommunications : data transmission, telephony and TV broadcast services.

Since the launch of India's Apple experimental satellite in June 1981 (L03), Arianespace has placed in orbit Insat 1C in July 1988 (Flight 24), Insat 2A in July 1992 (Flight 51), 2B in July 1993 (Flight 58), 2C in December 1995 (Flight 81) and 2D in June 1997 (Flight 97). The launch of Insat 2E is slated for early 1999. Within the scope of the CAPE agreement (Committee for the Auxiliary Payloads Policy Execution) signed in 1998, ISRO and Arianespace are pooling the

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELLOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



Press Release 98/24  
Washington, September 16, 1998

## **FLIGHT 109: MISSION ACCOMPLISHED 12TH ARIANESPACE LAUNCH FOR PANAMSAT**

**On September 16, 1998, Arianespace successfully launched PAS-7, a telecommunications satellite operated by PanAmSat Corp. of the United States.**

Flight 110 was carried out by an Ariane 44LP, the version of the European launcher with two solid-propellant and two liquid-propellant strap-on boosters. It used the 80th out of 116 Ariane 4 launchers ordered to date from the European space industry.

Liftoff from Europe's Spaceport in Kourou, French Guiana took place on Wednesday, September 16, 1998 at :

3:31 am local time,  
or 6:31 GMT,  
or 8:31 am in Paris,  
or 2:31 am in Washington, DC.

Following the announcement of this 38th consecutive successful Ariane 4 launches, Arianespace Secretary General Françoise Bouzitat said, "Today's success is particularly welcomed, since it comes exactly ten years after the launch of the first PanAmSat satellite onboard the first Ariane 4 launcher. We are proud to have been involved from the outset in the extraordinary development of this global telecommunications system.

"This latest success, coming less than three weeks after the last Arianespace launch, further enhances the relationship of trust that has built up between our two companies. It also demonstrates our ability to guarantee flexible, reliable and timely access to space for all our customers, at a time when space transport activity is facing difficult challenges."

**PRESS INFORMATION**

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



Press release 98/26  
Washington, October 6, 1998

**ARIANESPACE FLIGHT 109:  
DOUBLE SUCCESS FOR EUROPEAN DBS INDUSTRY**

**On October 5, 1998, Arianespace successfully launched two direct broadcast satellites (DBS): W2 for Eutelsat, and Sirius 3 for the Swedish company NSAB.**

Flight 111 was carried out by an Ariane 44L, the version of the European launcher with four liquid-propellant strap-on boosters. It used the 81<sup>st</sup> Ariane 4 launcher out of the 116 ordered to date from the European space industry.

Liftoff from Europe's Spaceport in Kourou, French Guiana, took place on **Monday, October 5, 1998 at:**

- 7:51 pm local time**
- or 22:51GMT
- or 6:51 pm in Washington, DC
- or 12:51 am in Paris (Tuesday, October 6)

Memento after this 20th successful Ariane 4 launch in the Ariane 4 program. October 5, 1998

INFORMATION

*ARIANE 5 is a program of the European Space Agency (ESA), which has delegated prime contractor responsibility for development of this new launcher to CNES.*

*503 is the final qualification flight, carried out under ESA responsibility. The launcher is the first unit of a production batch ordered by Arianespace from European industry.*

*Launch operations at the ELA 3 launch complex at Europe's spaceport, the Guiana Space Centre (CSG), are conducted by Arianespace*

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766



Press Release 98/27  
Washington, October 12, 1998

## TWO ADDITIONAL ARIANESPACE LAUNCHES FOR PANAMSAT

**Frederick A. Landman, Chairman and Chief Executive Officer PanAmSat Corporation, has signed a contract for two new launches with Arianespace starting in 1999.**

The contract calls for launching Galaxy XI in March/April 1999 on an ARIANE 4 and another Galaxy satellite in the fourth quarter of 1999 on an ARIANE 4 or 5 launch vehicle from the Guiana Space Center, Europe's Spaceport in Kourou, French Guiana (South America).

With the launch of the PAS-6 B satellite already scheduled for December 1998 and of PAS-1 R in July 1999, Arianespace will thus launch four PanAmSat satellites in twelve months.

*"This contract is the latest demonstration of an extraordinary relationship," said Arianespace Chairman and CEO Jean-Marie Luton. "With 13 PanAmSat satellites already launched and four more entrusted to us before the end of next year, Arianespace is very happy to play such a prominent role in the development of our largest private customer."*

*"PanAmSat has selected Arianespace because of its proven track record for high launch performance and superior customer service," said Mr Landman. "Our mutually beneficial 10-year business relationship has enabled each of us to become the commercial leaders in our respective industries."*

Galaxy XI will use a HS-702 platform built by Hughes Space and Communications in El Segundo, California. Equipped with 64 transponders, it will offer video and telecommunications services from its initial 99° West orbital location and will be the most powerful satellite ever positioned over the United States.

PanAmSat (Greenwich, Connecticut, USA), is the world's leading commercial and private provider of satellite-based communications services. The company operates a global network of 17 satellites over five continents.

Following this contract, Arianespace has now 39 satellites on order to be launched.

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 13  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieur  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



# MEDIA ALERT

Washington, October 14, 1998

JOINT ESA/CNES/ARIANESPACE  
PRESS RELEASE 98/28

## New Ariane 5 Internet Web site

Follow the launch campaign for the third Ariane 5 qualification flight and get more information about the launcher and its mission on a French/English web site developed by ESA, CNES and Arianespace.

You can access it as of today, 14 October 1998 at the following Internet address : <http://www.ariane503.org>. From this site, you will also be able to follow in near-real time a videotransmission of the launch, currently scheduled for 20 October with a 12 :00 to 1 :30 p.m. EDT launch window, and download the latest pictures. A historical review of the Ariane 5 programme and a digest of the main technical data concerning the 503 launcher and campaign are also available.

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com  
Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13  
Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426  
Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766

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Claude SANCHEZ  
Directeur du Service de l'Information  
France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELLOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66



Washington, October 15, 1998

**JOINT ESA/CNES/ARIANESPACE  
PRESS RELEASE 98/29**

**ARIANE 5 LAUNCH POSTPONED 24 HOURS**

On Wednesday, October 14 in Kourou, French Guiana, the first tank in the attitude control system was filled with hydrazine, but this took longer than expected. Because of the pre-launch operations which must still be carried out, the Ariane 503 launch has been postponed 24 hours.

The next major step is the Launch Readiness Review, to be carried out on Friday, October 16, which authorizes, in particular, transfer of the launch vehicle to the launch zone. This transfer is now scheduled for Tuesday, October 20.

Under these conditions, the target launch date is now set for: **Wednesday, October 21, between 12:00 pm and 1:30 pm EDT (1:00 pm to 2:30 pm local time in Kourou).**

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com  
Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13  
Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426  
Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieur  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>

PRESS INFORMATION



Kourou, October 19, 1998

**JOINT ESA/CNES/ARIANESPACE  
PRESS RELEASE n°98/30**

**ARIANE 503  
LAUNCH CONFIRMED FOR OCTOBER 21<sup>st</sup>, 1998**

Friday, October 16 and Monday 19, the Launch Readiness Review for Ariane 503 took place at the Guyana Space Center, Europe's Spaceport in Kourou, French Guiana.

This review gives the go-ahead for the final count down that will lead to a launch on:

**Wednesday, October 21<sup>st</sup> 1998, within the following launch window:**  
**from 01:00 p.m. to 02:30 p.m., Kourou time**  
i.e. 04:00 p.m. to 05:30 p.m., Universal time  
or 06:00 p.m. to 07:30 p.m., CEST, Central European Summer Time / Paris.

The rollout of the launcher from the final assembly building to the launch zone is scheduled for Tuesday, October 20 as of 09:30 a.m., Kourou time.

The third Ariane 5-test flight will qualify the new heavy European launcher for satellite injection into geostationary transfer orbit (GTO). This flight will also carry the Atmospheric Reentry Demonstrator (ARD). This test spacecraft developed for ESA by Aerospatiale (France) will demonstrate the reentry technologies for Europe.

*ARIANE 5 is a program of the European Space Agency (ESA), which has delegated prime contractor responsibility for development of this new launcher to CNES.*

*Flight 503 is the final qualification flight, carried out under ESA responsibility. The launcher is the first unit of a production batch ordered by Arianespace from European industry.*

*Arianespace conducts launch operations at the ELA-3 launch complex at Europe's spaceport, the Guiana Space Center (CSG).*

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



Washington, October 21, 1998

**JOINT PRESS RELEASE  
ESA/CNES/ARIANESPACE n°98/31**

**ARIANE 5 COMPLETES AN OUTSTANDINGLY  
SUCCESSFUL TEST FLIGHT**

Today Europe confirmed its lead in space transport systems for the 21<sup>st</sup> Century. Ariane 5, on its third qualification flight, left no doubts as to its ability to deliver payloads to geostationary transfer orbit.

The new heavy launcher lifted off in glorious sunshine sky from the Guiana Space Centre, Europe's spaceport in Kourou, French Guiana, on **Wednesday, October 21, 1998 21 October 1998 at:**

- 1: 37: 21 p.m. local time**
- or **4: 37: 21 p.m. GMT**
- or **6: 37: 21 p.m. Paris time**
- or **12:37:21 p.m. Washington, DC**

The solid-propellant boosters separated as planned at an altitude of about 62 km, 2 mn 23 sec after HO. The fairing was jettisoned 3mn 13sec into the flight, followed by separation of the cryogenic main stage at 9mn 59sec at 139 km. At H0+12mn, at an altitude of 209 Km, the Atmospheric Reentry Demonstrator was released and 3mn 14sec later the storable-propellant upper stage propelled the stage assembly and Maqsat 3, a representative mockup of a commercial satellite, towards its injection point.

At H0+33mn 07sec, the upper stage engine shut down and Maqsat 3 was injected into geostationary transfer orbit. The parameters calculated at its precise point in time were :

- Perigee :** 1 027 km for 1 028 ( $\pm$  3) km predicted,
- Apogee :** 35.863 km for 35.898 ( $\pm$  200) km predicted,
- Inclination :** 6.999° for 6.998° ( $\pm$  0,054)° predicted.

In Kourou, Fredrik Engström, ESA's Director of Launchers and Ariane 503 Flight Director, confirmed: *"The third Ariane-5 flight has been a complete success. It qualifies Europe's new heavy-lift launcher and vindicates the technological options taken by the European Space Agency."*

For Gérard Brachet, Director general of CNES, the French space agency: *"The success of this third Ariane-5 qualification flight closes the development phase of this new European launcher. CNES is proud to have brought the project assigned to it by the European Space Agency to a successful conclusion. Its continuing task will now*

**PRESS INFORMATION**

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

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*be to provide support to Arianespace as the Ariane-5 launcher goes into the commercial exploitation phase".*

*Jean-Marie Luton, Chairman of Arianespace, emphasized: "I would like to pay tribute to the European Space Agency, CNES and all the industrial and operational teams here in French Guiana and in Europe on having successfully completed this program. With their support, we will now be offering our customers a launch service combining performances, power, flexibility and availability in line with today's commercial demands and those of tomorrow."*

Speaking from the European press center at Evry, Antonio Rodotà, the Director General of ESA, made the following comment: *"The European Space Agency is already working to meet the challenges of the 21<sup>st</sup> century with increasingly powerful and versatile launchers designed to handle the widest possible range of space missions".* From Alain Bensoussan, Chairman of CNES: *"France is proud to have helped make this ambitious European program a success. The Ariane program, consolidating as it does Europe's standing in the world space community, is an outstanding illustration of Europe's capacity to pool its best scientific and industrial teams in pursuit of a common goal".*

In 18 hours' time, a first overall assessment including the ARD mission will be presented at a press conference in Kourou.

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,

[mvp@arianespace-inc.com](mailto:mvp@arianespace-inc.com)

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766



Press Release 98/32  
Washington, October 21, 1998

## ARIANE 5 READY FOR SERVICE !

**Following the success of the third Ariane 5 qualification flight, Arianespace continues to take industrial, commercial and operational responsibility for Europe's new heavy launcher.**

Shortly after today's successful launch, Arianespace Chairman and Chief Executive Officer Jean-Marie Luton said, *"Today, we are starting the commercial career of our new heavy launcher, the first in this generation of launch vehicles.*

*"With Ariane 5, we are giving all customers a launch system whose excellent performance will further strengthen the availability, flexibility and accuracy of our space transportation service. Ariane 5 is the key driver for our competitiveness."*

The analysis of some 1,400 data points and measurements collected during this flight should lead to the official qualification of the launcher in December 1998. Allowing for a gradual service entry, the first commercial flight is scheduled for the end of the first quarter of 1999 and will boost two communications satellites into orbit.

The launch schedule will remain flexible, to adapt to satellite availability. However, Arianespace can already offer a capacity of 12 to 15 Ariane 4 and Ariane 5 launches per year during the period 1998-2001.

Arianespace also made a firm commitment to the European space industry by ordering 14 Ariane 5 launchers as early as June 1995. The first of these was launched today – and it was a complete success. Arianespace plans to produce and deliver to Kourou four Ariane 5 launchers in 1999.

As for Ariane 4, the responsiveness of the European space industry will enable increasing Ariane 5 delivery rates (to 6 to 8 per year, starting in 2000), while driving higher productivity. At the same time, to achieve the commercial competitiveness that is critical to sustained market success, the industry has embarked on the same cost-reduction initiative as for Ariane 4. This focus on higher productivity – essential if Arianespace is to maintain its leadership – goes hand in hand with maintaining the high quality that is indispensable in the commercial operation of the Ariane system.

Arianespace, along with the European Space Agency, has already initiated a performance improvement program to keep pace with increasingly heavy satellites. The current objective is to provide geostationary transfer orbit (GTO) capacity of 11 metric tons (24,200 lb) by 2005-2006. This program also integrates the diverse launch needs of different types of missions: low and medium Earth orbit, direct orbital injection, planetary probes, constellations, etc.

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>



Press Release 98/33  
Washington, October 28, 1998

## ARIANESPACE FLIGHT 113: ARIANE AT THE SERVICE OF TELECOMMUNICATIONS AND DIGITAL RADIO BROADCASTING

Logging its third successful flight in a month, Arianespace launched two satellites on October 28, 1998: the GE-5 telecommunications satellite for the United States, and the AfriStar satellite, providing digital radio broadcasting services for Africa.

Flight 113 was carried out by an Ariane 44L, the version of the European launcher with four liquid-propellant strap-on boosters. It used the 82<sup>nd</sup> Ariane 4 launcher out of 116 Ariane 4 launchers ordered to date from the European space industry.

Liftoff from Europe's Spaceport in Kourou, French Guiana, took place on **Wednesday, October 28, 1998 at:**

**7:16 pm local time**  
or 22:16 GMT  
or 11:16 pm in Paris  
or 5:16 pm in Washington, DC (EST)

Following the 40th successful Ariane 4 launch in a row, and just one week after the successful launch of Ariane 5, Arianespace Chairman and CEO Jean-Marie Luton said, "That makes three successes in one month, two Ariane 4 rockets and one Ariane 5! Launch after launch, we are demonstrating our ability to give customers fast, flexible, reliable access to space. Since August 25th, we have carried out five launches in less than nine weeks. All our production and operational teams in Europe and French Guiana deserve a big round of applause!

"I would also like to thank our two customers this evening, Alcatel and Dornier, who entrusted us with the satellites for WorldSpace and GE Americom. For Arianespace, it is very satisfactory indeed to bring together in a single launch a new operator, serving the African continent, and a major operator from the United States, both working hand in hand with leading European manufacturers."

Provisional parameters at third stage injection into geostationary transfer orbit were:

Perigee: 185 km for a target of 185 km ( $\pm 3$  km)  
Apogee: 35,919 km for a target of 35,786 km ( $\pm 150$  km)  
Inclination: 6.5 degrees for a target of 6.5 degrees ( $\pm 0.06^\circ$ )

The GE-5 satellite was launched under a turnkey contract signed by Dornier Satellitensysteme of the German Daimler-Benz Aerospace group (DASA) with GE American Communications of the United States. Construction was handled by a European team led by Alcatel Space Industries of Cannes, France. Weighing 1,719 kg (3,782 lb) at liftoff, this satellite will be located at 79° west, and will complete GE Americom's comprehensive coverage of the U.S.

AfriStar is the first of three WorldSpace digital radio broadcast satellites launched by Ariane rockets within the scope of a contract with Alcatel Space Industries, prime contractor and industrial architect for the WorldSpace system. Weighing 2,739 kg (6,026 lb) at liftoff and located at 21° East, AfriStar will provide digital audio, text and image transmission services for Africa and the Middle East. The design life is over 15 years.

PRESS INFORMATION

Claude SANCHEZ  
Chef du Service de l'Information  
Evry, France  
Tel.: (33.1) 60 87 60 14/60 1  
Fax.: (33.1) 60 87 63 04

Marie-Vincente PASDELOUP  
Director of Communications  
Washington, DC, U.S.A.  
Tel.: 202-628-3936  
Fax.: 202-628-3949

Richard BOWLES  
Director  
ASEAN Office, Singapore  
Tel.: (65) 223 6426  
Fax.: (65) 223 4268

Jacques ROELANDTS  
Manager  
Tokyo, Japan  
Tel.: (81.3) 3592-2766  
Fax.: (81.3) 3592-2768

Claudia HOYAU  
Relations Exterieures  
Kourou, Guyane Française  
Tel.: (594) 33 68 78/79  
Fax.: (594) 33 62 66

<http://www.arianespace.com>

As of October 21, Arianespace's order book stood at 39 satellites to be launched by Ariane 4 or Ariane 5, worth a total of \$ 3.4 billion (FF 20.5 billion).

The next launch, Flight 113, is scheduled in just one week. On October 28, an Ariane 44L will boost two satellites into orbit: the GE-5 telecommunications and television satellite for GE American Communications; and AfriStar, a satellite that will provide a brand-new service, direct digital radio broadcasting for WorldSpace Corporation.

The next launch, Arianespace Flight 114, is scheduled for late November. An Ariane 42L will place into orbit the Satmex 5 telecommunications satellite for the private Mexican operator Satmex (Satélites Mexicanos S.A. de C.V.).

Following Flight 113, Arianespace's order book now stands at 37 satellites to be launched.

Marie-Vincente Padeloup, ARIANESPACE, Inc., Tel. (202) 628-3936,  
mvp@arianespace-inc.com

Claude Sanchez, ARIANESPACE, S.A., Tel. (33/1) 60 87 60 13

Richard Bowles, ARIANESPACE SINGAPORE, Tel. (65) 223 6426

Jacques Roelandts, ARIANESPACE TOKYO, Tel. (813) 3592.2766