

(Memphis) The Commercial Appeal**FILE DESCRIPTION**

The Commercial Appeal is the only general circulation daily and Sunday newspaper for the Memphis metropolitan area, and it is the major newspaper serving the mid-south region of west Tennessee, northern Mississippi, and eastern Arkansas. Emphasis is given to medicine, tourism, sports, and business. Cotton is the major business in Memphis and the cotton industry is given extensive coverage. Companies headquartered in the area include Federal Express, Cleo, Promus Companies, Schering-Plough, and International Paper.

SUBJECT COVERAGE

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- Wire Stories

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DIALOG FILE DATA

Inclusive Dates: July 1990 to the present

Update Frequency: Daily

File Size: 834,608 records as of July 2008

CONTACT

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SAMPLE RECORD

08808007

/TI
 JN=, JC=
 AU=
 ED=, /SH, PG=

LIFE ON MARS? U.S. TO SNOOP AROUND
 Commercial Appeal (Memphis) (CA) - SUNDAY, November 3, 1996
 By: Mark Carreau Houston Chronicle
 Edition: Final Section: News Page: A8
 Word Count: 658

TEXT:

/LP, /TX

The United States begins a \$1 billion, decade-long program this month to broaden the search for life on Mars, launching the first in a series of probes to Earth's neighboring planet.

If successful, the first three missions, blasting off before the end of the year, will place spacecraft on the Red Planet and in orbit for the first time since the National Aeronautics and Space Administration's highly successful Viking missions of the late 1970s.

/TX

The initial snooping will include reams of close-up snapshots, a sharp-eyed, creeping robot and earnest poking at the Martian soil.

The opening salvo includes NASA's Mars Global Surveyor, to launch Wednesday, and the Mars Pathfinder mission, launching Dec. 2. Sandwiched between those is launch of Mars 96, a Russian-led international mission equipped with two U.S. instruments.

'The most exciting thing about Mars is the prospect that life may have started there,' said Michael Carr of the U.S. Geological Survey, an expert on the planet. 'The reason for optimism about life starting on Mars is really two things: evidence of abundant water on the planet and climate change.'

Water is vital for life as human beings know it and, not inconsequentially, a natural resource that could be broken down to produce breathing air and rocket propellants for human explorers.

Larger than the moon but smaller than Earth, Mars would be the first stop on a journey into the solar system's outer reaches. Past U.S. robotic missions reveal a desert-like world with a thin, cold atmosphere of carbon dioxide, a rocky, reddish surface, towering inactive volcanoes and an ugly gash that dwarfs Earth's Grand Canyon.

Ice caps come and go from the polar regions as the seasons change. Embossed on the landscape of Mars's northern hemisphere are tracings of ancient shorelines and long river valleys, suggesting that water in the form of lakes or oceans and flowing streams once was plentiful.

'So where is the water now?' Carr pondered. 'The fact is, we don't know.'

Experts believe that its disappearance accompanied a puzzling climate change.

Surface geology appears as if it underwent a period of intense erosion followed by a long quiescent period. It is possible, Carr believes, Mars retains water, either frozen on the surface but camouflaged by rock and dust or still liquid but channeled into subterranean lakes by long-ago meteor hits.

'Our scientists will act as lawyers to prosecute the questions: What did Mars know about water? When did it know it? And what did Mars do with it?' said NASA's Wes Huntress, chief of the agency's space science division. He believes that the answers can be coaxed from the Red Planet with the 10 missions envisioned by NASA, Russia and Japan over the next decade.

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BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
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/DE	DE	Descriptor ¹	Word & Phrase	S SPACE/DE S MICROSOFT CORP?/DE
/LP	LP	Lead Paragraph ³	Word	S MARS(S)LAUNCH?/LP
/ME	ME	Memo ³	Word	S WIRETAP/ ME
/SH	SH	Section Heading ²	Word	S NEWS/SH
/TI	TI	Headline	Word	S LIFE(5N)MARS/TI
/TX	TX	Text	Word	S CLIMATE(S)WATER/TX

¹ Not available in all PAPERS files.

³ Also searchable using /TX.

² Searchable in the Basic Index and in the Additional Indexes.

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AU=	AU	Byline	Word	S AU=(MARK(1N)CARREAU)
DL=	DL	Dateline	Phrase	S DL=WASHINGTON
DY=	DY	Publication Day ¹	Phrase	S DY=SUNDAY
ED=	ED	Edition	Phrase	S ED=FINAL
JC=	JC	Newspaper Code ⁴	Phrase	S JC=CA
JN=	JN	Newspaper Name	Phrase	S JN=COMMERCIAL APPEAL?
MO=	MO	Publication Month ¹	Phrase	S MO=NOVEMBER
PD=	PD	Publication Date	Phrase	S PD=19961103
PG=	PG	Page Number	Phrase	S PG=A8
PY=	PY	Publication Year	Phrase	S PY=1996
RG=	RG	U.S. Region ⁵	Phrase	S RG=CENTRAL
SF=	SF	Special Feature ^{1,6}	Phrase	S SF=PHOTO
SH=	SH	Section Heading ²	Phrase	S SH=NEWS
—	SO	Source Information ⁷		
ST=	ST	Newspaper State	Phrase	S ST=TN
UD=	—	Update	Phrase	S UD=9999
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⁴ Newspaper code is also shown following the newspaper name in the Source Information field.

⁵ Regions are: NORTHEAST, SOUTHEAST, CENTRAL, and WEST. Region does not display in predefined formats.

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File 740

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