

# PINEY MOUNTAIN AIR FORCE

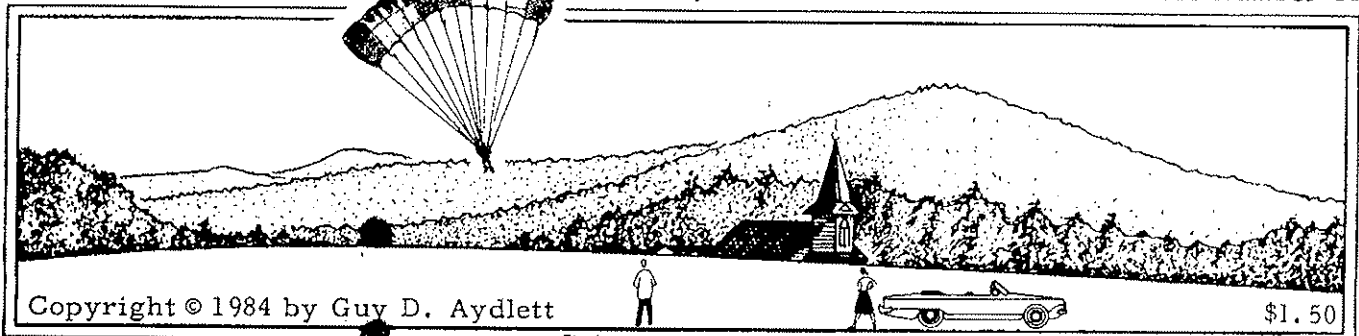
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## DATA LETTER

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LITHO IN U.S.A.

**JANUARY**, The First Month of the New Year, gives us 31 days to use in constructive ways.

**NEW YEAR'S DAY** is also Gnat-Swarm Day.

On the 4th, 1915, B. Stringfellow was born.

**TWELFTH NIGHT** is on the 5th.

On the 7th, in 1785, Frenchman Jean-Pierre Blanchard and American John Jeffries made the first English Channel crossing by balloon.

From Dover, the flight was uneventful until the aeronauts were about halfway to France. There, they had to jettison all loose gear—including Dr. Blanchard's trousers—to keep from settling into the icy Channel currents.

Presumably, Blanchard kept a letter from George Washington in his hat or close to his heart; he delivered it in France on the 9th, and the first airmail was born.

G\*D\*V\*K\*S and Ben were born on the 17th.

Full Moon on the 18th. In 1984, there'll be no full-mooning after the 18th of any month.

\*

During the Siege of Paris in the winter of 1870-71 (the Franco-Prussian War), more than sixty French balloons eluded the surrounding Prussians and ferried passengers, mail, and carrier pigeons in a brave airlift.

\*

**RALPH E. LARSON SR.**, Hector, Minnesota, needs a good picture of a Curtiss Robin with an OX-5 or OXX-6 engine. Can anybody help?

**SAMUEL M. URNER**, a hearty *DATA LETTER* booster in Sacramento, California, sends this: "Dear Subscription Troll: Please sign us up for one more year. Can't live without your *DATA LETTER*."

[*Sam not only subscribes for himself, but he also generously spreads joy by subscribing for others. —Nisse Non-ed.*]

\*

**TIMOTHY PRESTON** of Columbus, Ohio writes this: ". . .I, like most kitefliers I know, enjoy news concerning all things that fly: from flags, kites, and boomerangs, to ultralights and early airplanes. I can sympathize, though, with those who want more kite news and less ultralight, etc. news. Kites are the glue that holds your readers together.

"Thank you very much for a very readable, informative data letter.

"After two years as its founder and editor, I have recently retired from our local club's newsletter (leaving it, I should add, in very capable hands). I learned from my experience that producing a kite newsletter is a very time-consuming and thankless job. I want you to know that your dedication to producing a fine letter is greatly appreciated.

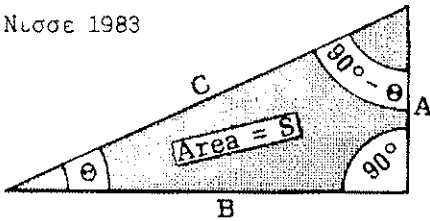
"I look forward to at least two more years of *PMAF DATA LETTER*. . . . Tim Preston."

\*

**THE PRINTING TROLLS** in Albemarle County sometimes run off excessive numbers of our *DATA LETTER*. We'd like to share over-runs with friends of subscribers and members of kiteflier clubs. For a free copy, just send a self-addressed, stamped envelope to PMAF.

# RESOLUTION OF THE RIGHT TRIANGLE—Sorting out the Parts—by D. Waites and May Jours

NOV 1983



$$A = C \sin \theta$$

$$B = C \cos \theta$$

$$C^2 = A^2 + B^2$$

$$S = 0.5 AB$$

EXAMPLE:  $\theta = 39^\circ$ , and  $C = 33\frac{1}{4}''$  (33.250'')  
 Find: Side A, Side B, and Area S.  
 Use factors A\*, B\*\*, and S† from the 39° line:  
 $A = \text{Factor A} \times C = 0.6293 \times 33.250 = 20.9242$   
 $B = \text{Factor B} \times C = 0.7771 \times 33.250 = 25.8386$   
 $S = \text{Factor S} \times C^2 = 0.2445 \times 33.250 \times 33.250$ ;  
 therefore, Area S = 270.310 in<sup>2</sup>, or 1.877 ft<sup>2</sup>.

$\theta$	A-Factor*	B-Factor**	S-Factor†	$\theta$	A-Factor*	B-Factor**	S-Factor†
1°	0.0175	0.9998	0.0087	46	0.7193	0.6947	0.2498
2	0.0349	0.9994	0.0174	47	0.7314	0.6820	0.2494
3	0.0523	0.9986	0.0261	48	0.7431	0.6691	0.2486
4	0.0698	0.9976	0.0348	49	0.7547	0.6561	0.2476
5	0.0872	0.9962	0.0434	50	0.7660	0.6428	0.2462
6	0.1045	0.9945	0.0520	51	0.7771	0.6293	0.2445
7	0.1219	0.9925	0.0605	52	0.7880	0.6157	0.2426
8	0.1392	0.9903	0.0689	53	0.7986	0.6018	0.2403
9	0.1564	0.9877	0.0773	54	0.8090	0.5878	0.2378
10	0.1736	0.9848	0.0855	55	0.8192	0.5736	0.2349
11	0.1908	0.9816	0.0937	56	0.8290	0.5592	0.2318
12	0.2079	0.9781	0.1017	57	0.8387	0.5446	0.2284
13	0.2250	0.9744	0.1096	58	0.8480	0.5299	0.2247
14	0.2419	0.9703	0.1174	59	0.8572	0.5150	0.2207
15	0.2588	0.9659	0.1250	60	0.8660	0.5000	0.2165
16	0.2756	0.9613	0.1325	61	0.8746	0.4848	0.2120
17	0.2924	0.9563	0.1398	62	0.8829	0.4695	0.2073
18	0.3090	0.9511	0.1469	63	0.8910	0.4540	0.2023
19	0.3256	0.9455	0.1539	64	0.8988	0.4384	0.1970
20	0.3420	0.9397	0.1607	65	0.9063	0.4226	0.1915
21	0.3584	0.9336	0.1673	66	0.9135	0.4067	0.1858
22	0.3746	0.9272	0.1737	67	0.9205	0.3907	0.1798
23	0.3907	0.9205	0.1798	68	0.9272	0.3746	0.1737
24	0.4067	0.9135	0.1858	69	0.9336	0.3584	0.1673
25	0.4226	0.9063	0.1915	70	0.9397	0.3420	0.1607
26	0.4384	0.8988	0.1970	71	0.9455	0.3256	0.1539
27	0.4540	0.8910	0.2023	72	0.9511	0.3090	0.1469
28	0.4695	0.8829	0.2073	73	0.9563	0.2924	0.1398
29	0.4848	0.8746	0.2120	74	0.9613	0.2756	0.1325
30	0.5000	0.8660	0.2165	75	0.9659	0.2588	0.1250
31	0.5150	0.8572	0.2207	76	0.9703	0.2419	0.1174
32	0.5299	0.8480	0.2247	77	0.9744	0.2250	0.1096
33	0.5446	0.8387	0.2284	78	0.9781	0.2079	0.1017
34	0.5592	0.8290	0.2318	79	0.9816	0.1908	0.0937
35	0.5736	0.8192	0.2349	80	0.9848	0.1736	0.0855
36	0.5878	0.8090	0.2378	81	0.9877	0.1564	0.0773
37	0.6018	0.7986	0.2403	82	0.9903	0.1392	0.0689
38	0.6157	0.7880	0.2426	83	0.9925	0.1219	0.0605
→ 39	0.6293	0.7771	0.2445 ←	84	0.9945	0.1045	0.0520
40	0.6428	0.7660	0.2462	85	0.9962	0.0872	0.0434
41	0.6561	0.7547	0.2476	86	0.9976	0.0698	0.0348
42	0.6691	0.7431	0.2486	87	0.9986	0.0523	0.0261
43	0.6820	0.7314	0.2494	88	0.9994	0.0349	0.0174
44	0.6947	0.7193	0.2498	89	0.9998	0.0175	0.0087
45	0.7071	0.7071	0.2500	90	1.0000	0.0000	0.0000

\* Multiply by C to find Side A; \*\* Multiply by C to find Side B; † Multiply by C<sup>2</sup> to find Area S

# THE CYLINDER KITE

Hints on Making an Aerial Tromp L'oeil Cannister —by Hi Hoch

NUCCE 1983

A CYLINDER KITE will permit you to flaunt on high your preferences in canned elixirs, motor oils, tennis balls, foodstuffs—O, even your favorite brand of curry—especially if a favorite recipe happens to be your own proprietary brand or fabrication. . . .

You could display admiration for a genuine item of commerce, or a stretch of imagination might tempt you to hoist a hoked-up hype—in lampooning levity, not malice—that might be labeled: *Campbell's Elephant Soup*. Make the top half of the cylinder red, the bottom half white, and the inside? Gray, of course.

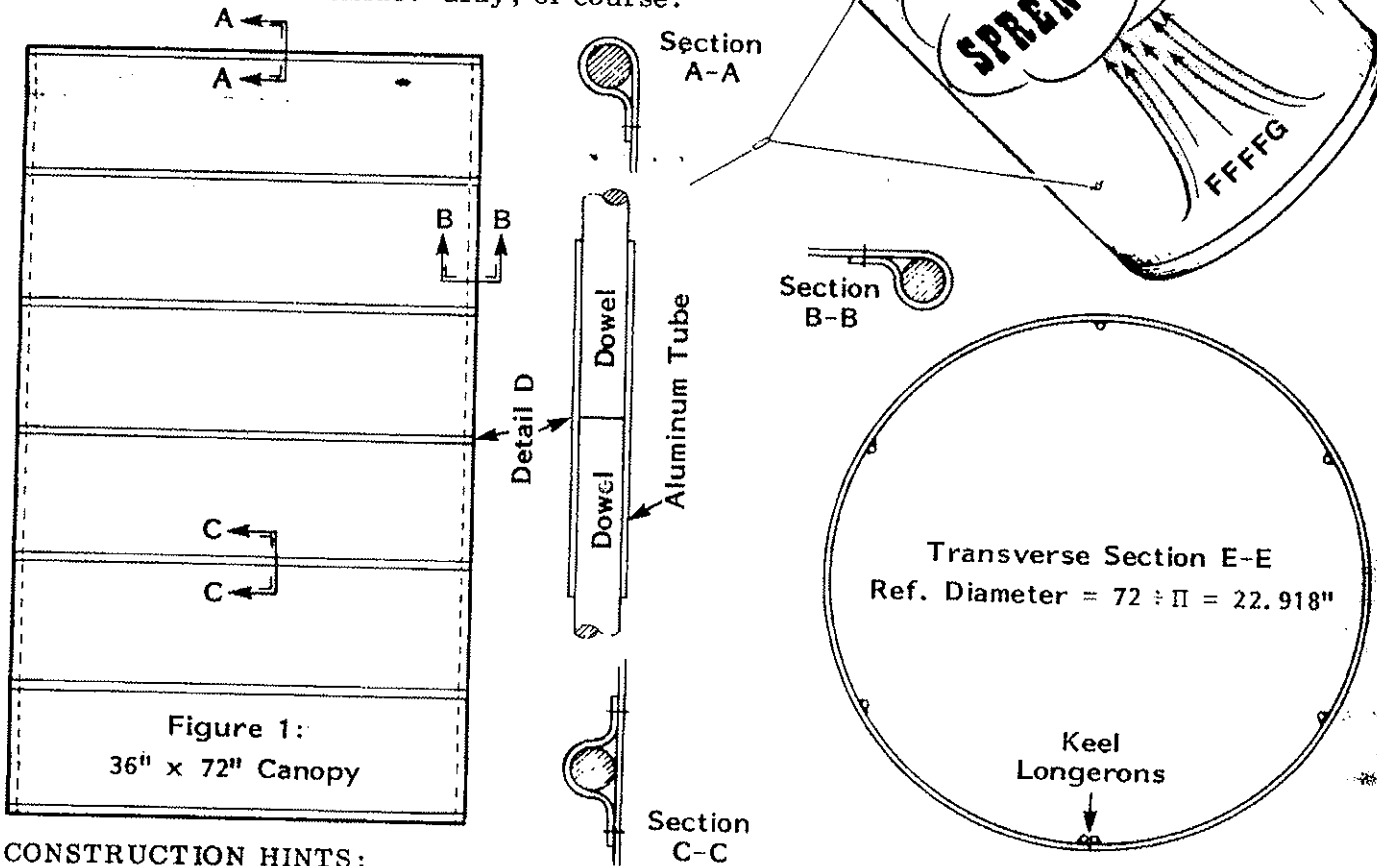
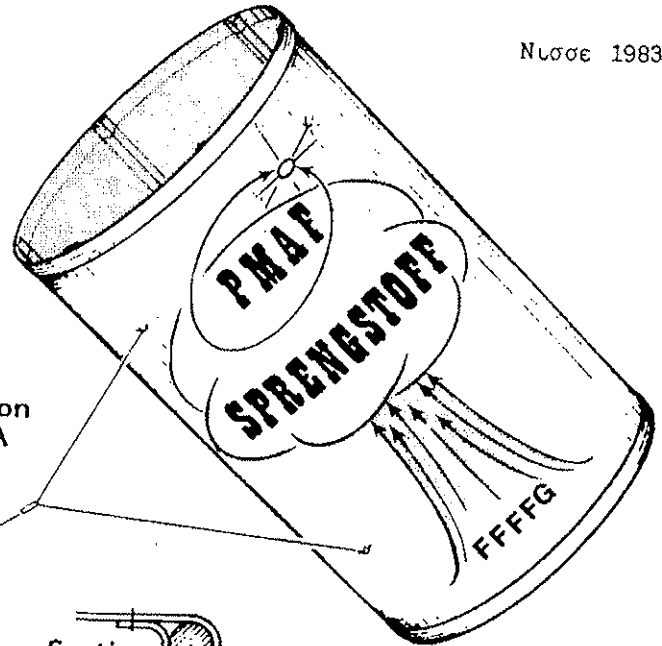


Figure 1:  
36" x 72" Canopy

## CONSTRUCTION HINTS:

Make the "can"opy, or peripheral covering, to the dimensions shown in Figure 1. Allow extra material to permit sewing or gluing four sleeved hems large enough to accept 1/8" dia. birch dowels. (See Sections A-A and B-B.)

At 12" intervals—center to center—provide batten sleeves (Section C-C) for 5 additional 1/8" x 36" birch dowels.

Slip 7 dowels into the longitudinal sleeves and hems (Sections A-A and C-C).

Leading and trailing edge dowels, 2 each, are butt-jointed with 1" long aluminum tubes (Detail D) and carefully slid into their hems.

The leading and trailing edges are careful-

ly sprung into circles and joined by additional 1" lengths of tubing adjacent and perpendicular to the 2 sleeved longerons that form the keel of the kite (joints exactly like Detail D).

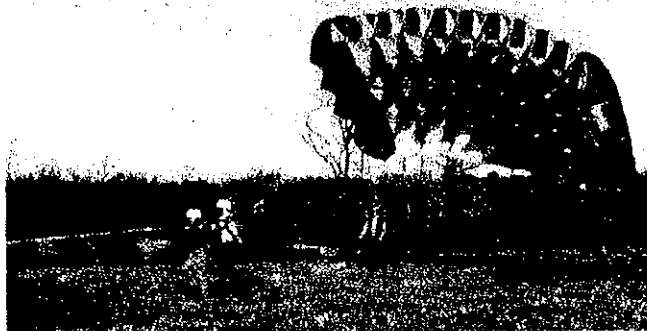
Transverse Section E-E shows the two keel longerons at the bottom of the view; tie them together at about 6" intervals and attach the two-branched bridle about 9" from each end of the dual-longeron keel. Fly, flaunt, enjoy!

A final note: Use straight-grained birch for the leading and trailing edge hoops, and the circles can be bent without breaks; but if you are apprehensive, moisten the dowels before making bends (carry spares to the flightpad).



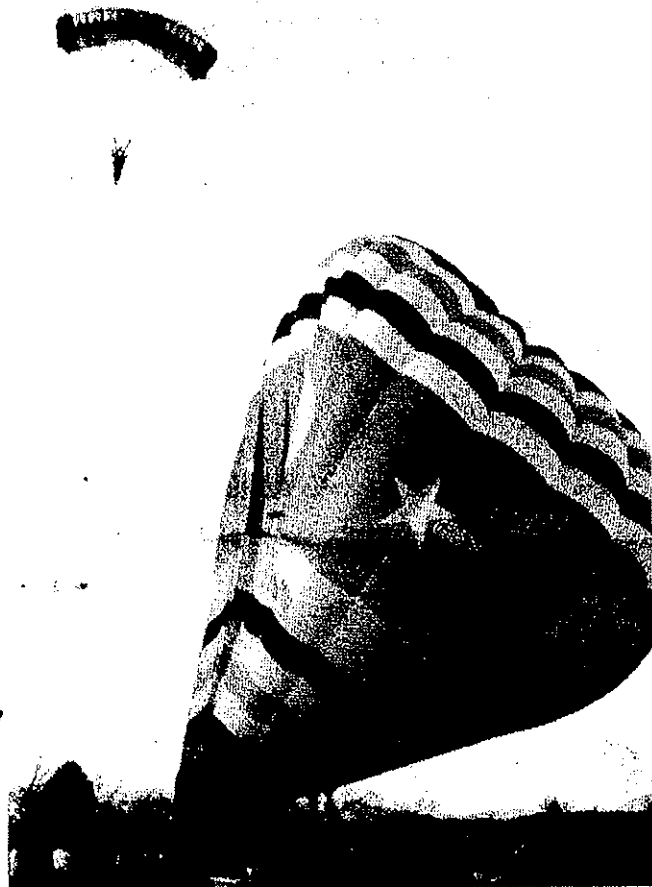
1

2



HopvBeaunnotoo

3



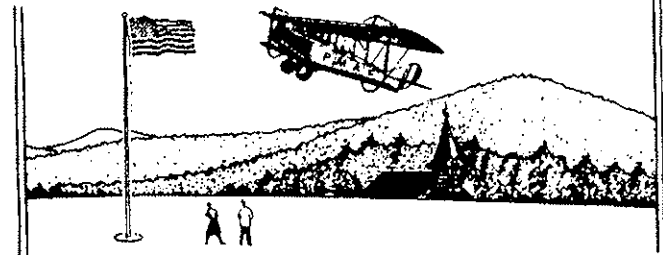
**30' KITE LIFTS JEFFERSON COUNTRY FOLK**

The 26th of November was a memorable day for Albemarle County trolls and visitors who were privileged to fly in Scott Faulkner's big two-place *Parascender*, a 450 ft<sup>2</sup> parafoil kite that is high-started to altitude by Jeep tow, released by the pilot, and then enjoyed as a parachute-cum-glider until touchdown.

Rick Behr, the aeronaut who commands the

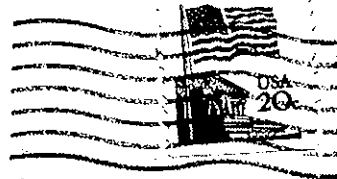
immense 6-place Boar's Head hot air balloon, made happy arrangements that caused Scott to visit Charlottesville's environs on his way from New England to Florida, where further demonstrations will carry through the winter. **THE PICTURES:** 1—Vicki Behr and Scott are harnessed up and ready for the tow. Rick is checking the canopy; 2—Canopy inflated and lift-off near; 3—Gliding above Rick's balloon.

**PINEY MOUNTAIN AIR FORCE DATA LETTER**  
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