

DR. MASON

Tan Son Nhut

CSA ACCIDENT

APRIL 4, 1975

SAIGON, VIET NAM

2 Miles N.E. Runway 25 L

Tan Son Nhut Air Base

CONSOLIDATED NOTES OF INVESTIGATION

John J. Carroll Associates, Inc.

D R A F T

April 1, 1984

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ATTACHMENTS

1. CSA Diagram - Disintegration Pattern
2. Troop Compartment diagram - occupant locations
3. Flight Deck/Crew rest area diagram - occupants
4. CSA Diagram - occupant summary
5. Wreckage diagram
6. Crash Sequence Reconstruction

Introduction

These consolidated notes were developed by researching:

1. the USAF Collateral Report
2. the USAF Aircraft Accident Summary Report (AAR)
3. Medical Records
4. Testimony of record

All statements contained in the Collateral report are summarized in PP. 3 - 12.

Injuries sustained by Aft Troop Compartment USAF Personnel are contained in PP. 14 - 16.

Injuries sustained by Flight deck/Crew rest area USAF Personnel are contained in PP. 17 - 19.

Injuries sustained by Cargo Compartment USAF Personnel are contained in PP. 19 - 20.

Aft Troop Compartment civilian escort injuries are contained in P. 20.

Survivor Testimony from depositions and trial testimony, PP 21 - 30.

Finally, a consolidated summary of survivor injuries (Crew and Adult escorts only - no children included) is contained in PP. 31 - 35:

Troop Compartment USAF Personnel	(PP. 31, 32)
Troop Compartment civilians	(P. 33)
Flight Deck/Crew rest area USAF Personnel	(P. 34)
Cargo Compartment (two) survivors	(P. 35)

Conflicting data exist concerning the exact number of Vietnamese orphans on board the C5A. Without conclusive evidence on which to establish a precise number, the Air Force data claiming a total of 330 "souls on board" is used. This may be inaccurate, however the count used for children is as follows:

Location	Fatal	Survived	Total
Cargo Compt.	96	6	102
Aft Troop Compt.	2	143	145
	-----	-----	-----
	98	149	247

April 4, 1975

2 NM N.E. Runw 25 L

Tan San Nhut Air Base, Saigon

From USAF Collateral Report:

314 on board: 138 Fatal

176 Surv.

11 US Crewmembers

18 US Crewmembers

40 US Citizens

8 US Citizens

incl: 35 DOD Civilians & 5 others

incl: 4 depend. children

(2 dependent wives)

2 Private citizens

(2 " children)

2 US Govt employees

(1 Private citizen)

73 Vietnamese children

150 Vietnamese children

8 Third country nationals

incl: (5 German)

(2 Australian)

(1 Malaysian)

Of 228 children: 150 survived 78 fatal (Per FOAC - Boulder, CO)

Day following, all bodies flown to U-Tapao Royal Thai Air Base, Thailand -
US Mortuary, Camp Samae Sam for ID:

Identified 81 Vietnamese children including:

David and Michael Bui & German National, Theodore Bui

(93 remains bags containing 81 children's bodies)

Departure WX: 2600 scat. 4000 scat. 30000 bkn. vis: 7 mi. wind 130/14K
alt. 29.79

(aircraft was VMC from T.O. to Impact)

Saigon WX at impact:

2600 scat. 3000 bkn. vis: 7 mi. wind 120/15K 29.76

C5A arr. Saigon 4 April 12:51 local

T.O. Runw 07 " 16:03 "

464,000 Pounds & fuel at 96,200 Pounds

Explosive decompression 16:15 at FL 23.4 (12 min after T.O.
Loss of Pitch trim, elevator and rudder flt. controls.

OCCUPANTS

From USAF AAR (Aircraft Accident Report) exhibit 191:

330 on board:	ON BOARD	FATAL	SURV
	29 Crew	11	18
	44 DOD Pers. & dependents	39	5
	10 Add'l list of attendants	7	3
	247 Orphans (reported by Saigon)	98	143
	145 in Troop Compartment (143 surv)		
	102 in Cargo Comp't. (6 surv)		
-----		-----	-----
	330	155	175

BY RECONSTRUCTION OF SURVIVOR STATEMENTS: (on board)

cockpit

9

troop compartment

145+6+9+1 = 161

CARGO compartment

102 + 47 + 11 = 160

Legend:

ED = explosive decompression

IMP = impact

INJ = injury

TO = takeoff

TD = touchdown

< Name > = Person(s) seen, remembered by witness

Statements

TRAYNOR, D.W., Capt.

Flight deck: impacted ground "fairly level attitude"
Vv= 500 - 600 ft./min.

HARP, T.W., Capt.

Flight deck: decided limit to FL330 to Clark AB

ED: bang, fog

TSgt Doughty intercom: on 02 + MSgt Perkins injured

<Capt. Langford> nav.

<Capt. Malone> IP seat/ jump seat

had full throttles applied to break rate of descent at TD
second impact "extremely hard" - a/c began to break up
rolled to right / stop

MALONE, K.D., Capt.

Flight deck:

Told Saigon they would be crash landing on 25L

LANGFORD, J.T., Capt.

Flight deck:

Navigator

3 impacts

ENGLES, A.R., TSgt.

Flight deck:

Flight Engineer

describes systems losses

DOUGHTY, D.F., TSgt.

Troop Compartment:

Put 145 small children &
(unknown #) adult attendants & med technicians
into troop compartment

remainder of people in cargo compartment
in typical personnel combat configuration

ED in aft end of troop compt. - galley area

asst. by <TSgt Parker>

asst by <SGT Perkins>

<One child> about 13 yrs. up to troop compt. to use latrine
sat against fwd. bulkhead

IMP <crippled child> in Doughty's lap in aft latrine
helped <nurse> and 13 yr. old out
opened hatches from outside

AUNE, R.C., 1st Lt.

Troop compartment:

Flt. nurse - in cargo comPt. for TO
A Lt.Col. at Saigon told her were to be "taking on 230

babies"

...around age two, few older ones age six to nine,
and about 40 escorts

She was to stay downstairs,
<Wirtz> <Gmerek> to stay upstairs
<Wise> <Hadley> to stay downstairs

in troop comPt. removed all armrests
all attendants had to stand

still had to put a few babies downstairs

TO in cargo comPt. sitting along side <Col. Willis>
and <Capt. Klinker> & <LADY w/ cast on>
and with <Sgt. Paget> & <Sgt. Wise>

Went upstairs for medicine - spoke with <Parker>
ED <Perkins was on ladder>

She and <Hadley> in aisle
IMF <Parker> <Perkins> aft; <Wirtz> behind
<Goffinett> fwd near latrines & <Doughty> forward
(1st)

Hadley flew over her head

She slid all the way down the aisle past the
latrines - in a pile of rubble

(2nd)

like "speedboat going through water"

mud and water pouring in

torn away - tremendous rate of speed - stop
foot broken

<Perkins> standing up

<Sgt. Boutwell> & <Hadley> throwing window exits out
SLIDES INFLATING inside

Flt. crew ran over <Maj. Wallace>

injuries: rt. foot fx; Puncture leg; L-3 fx; cuts;
scrapes; elbow cut; hematomas, multiple

GOFFINET. H. . 1st Lt.

Troop compartment:

Flt. Nurse - UPstairs Forward Part
in charge of 6 seats across from latrines & 2 in front
with <Gmerck> <Wirtz> <Hadley> <Doughty> <Sgt Parker>
& <Sgt Boutwell> (who she doesn't remember seeing)

<Civillian Lady>, maybe <5-6 female civillian adults>

ED <12 year old> in latrine
masks fell
<child w/ braces> in other latrine

IMP at left side bet. 2nd & 3rd last rows of seats
across from latrines

Saw FLAMES, hot air, cinders hit in face
Tumbled around - Burns on ear, -
On her head - under debris, tin - covered w/ mud
Last thing remembered before coming to stop
was flames

Was Pulled - Got out front
collarbone fx.
<12 yr. old American boy> out - had crawled out
she and boy Pulled out <Sgt Parker>
<Lt. Wirtz> outside
<Sgt Perkins> inside: leg splinted w/ child's crutch

went back in - turned over cushions & seats looking for
babies - found one (asleep)
<Sgt Parker> still breathing
<Lady> severely injured - grotesquely bent backwards

WIRTZ, M., Lt.

Troop Compartment:

Flight Nurse - in charge of two rows
4 or 5 rows in front of latrine - mid section

spoke with <Lt Goffinet>
" " <Sgt Hadley> & <Sgt Boutwell> & <Sgt Gmerek>
saw <Lt Aune>

TD Female civilians, medical people and crewmembers were
not seated

ED By grate / ladder by galley Saw sky/sea
<Prekins> on broken ladder hanging on
Gave O2 to children in loadmaster seats

Held hand of <Woman> (who was with daughter on a/c)

IMP 4 or 5 rows up from latrine, rt. side, between seats
facing forward

stopped - saw EXPLOSION and FIRE; spray of debris and soot
flying around in cabin; smelled like smoke
urgency to get out, "...we must be on fire too."
got up - someone opened mid - left exit; first out

<Loadmaster> with head injury - bleeding
<Lady> looked dead
<Daughter> (of woman whose hand held in descent) - wandered
off in Paddy (Adams, L.D., 18)
(woman had been 7-8 rows, left side, from fwd bulkhead)

Boutwell, O.H., MSgt

Troop compartment:

Arrived Saigon 1500 lcl on C-141
with Capt. Mary Klinker, Nurse
Lt. H. Goffinet
TSgt Johnson
SSgt Padgett
all transferred to CSA at Saigon

He was to work upstairs
row of seats aft of wing at emergency exits
<15 - 20 Adults>
<Goffinet> <Hadley> <Gmerck>
<5 - 6 Civ Woman escorts>
close to <150 Vietnamese children>

Believe 75 seats with two children to seat

ED masks

IMP 1st, 2nd, went forward, stop.
Smelled smoke
Removed <Gmerck> - injured; removed children

HADLEY, J.B., Sgt

Troop compartment:

Air evac. reservist
<about 20 Adults> - no seats

ED masks - horn - sat middle row facing aft
Hung onto chairs

IMP 1st - hard landing - rumbling - got up
got forward hatch undone
2nd - thrown into seat forward - stop
threw hatch out
Pulled <Boutwell> off floor next to <Lt Rune>
<Maj Wallace> & Hadley helped <Rune> to helicopter

Gmerek, G.B., Sgt

Troop Compartment:

Saw <5-7 Civillian Women> <Lt Wirtz> <Flt Mechanic>
<Lt Goffinet> <Hadley>

ED "Shot"; masks
At 1st 4 rows of kids, forward of latrine
<Gmerek> had next two rows

IMP Things went flying - bounced in seats - fell over
Wedged in - got free - ended up in front of latrine
Lost consciousness - injured
Saw <Lt Goffinet> covered with mud. <Boutwell> <Hadley>

THOMPSON, T.L.

Troop compartment:

PASSENGER - at first in Cargo comPt.
then moved to Troop ComPt.

ED Near grate/ladder in front of 1st row behind stairwell
under <10> People up there civillians
at least <2> aircrew
<1> flight nurse

IMP -Pulled back- to where exit was
Last Impact: "tremendous one" - stop
"I realized I must get away from the Plane, with some
of the children, the ones that could walk, because it
was burning."
"I remember seeing the fire, though, from inside the Part
of the Plane I was in, because when we landed the lights
went out. You could hear the crackling, you could feel
the heat. I looked out and saw the fire and black smoke.

DERGE, S.E.

Troop Compartment:

PASSENGER, 19, fem.

<Infants> were upstairs and downstairs

ED masks - had 3 <older children> in her row
got drousy - "...zonking out"

IMP went down and hit very hard 1st time - let go
2nd time - thrown somewhere - ear torn off
Put ear back on - bandaged

ADAMS, L.D.

Troop compartment:

PASSENGER, 17, fem. at first in Cargo compt. -bench

Boarded with mother, Barbara E. Adams - floor Cargo compt.
both went to help as escorts in Troop Compt.

located "more toward latrines, 2 rows forward
of emergency exits

ED light headed - hard to breathe

IMP Kneeling between seat rows - injured knees, neck
mud flying - mother thrown down the aisle
"And there was the FIRE...I remember some fire at first
and then the black girl opened the door and someone said
we were going to blow up..."
"It might have been, like, outside, but we could
feel the flames; we could see them, cause I saw fire
somewhere."

Outside: <Black girl>

<Girl with hurt ear>

<boy, 10-12, American> fat, chubby

STARK, M.W., Dr.

Troop compartment:

PASSENGER - Civ. escort (daughter in Cargo ComPt.)
infants loaded into cargo compartment - Passed up
ladder to (UPPER) Troop compartment - steep ladder
saw CBS Photographer(s)
<3-4 flight attendants>
<S. Derge>
<C. Liebermann>(FOAC)

IMP started hitting ground at regular intervals
mud - dirt - stop
<Crewmember> broken leg
<Female Flight Attendant> broken arm

"Seats in my Position were Pretty well in Position.
In the front Part of the Plane, some of them had
loosened and fallen back on the seat behind."

<One child dead>
<Debbie Derge> - known to be in troop compartment.

LEIVERMANN, C.E.

Troop compartment:

PASSENGER - Escort (FOAC) Fem.
went to troop comPt., down & up again
First 2 rows in front of stairwell - short
row next to stairwell

ED <Black Crewman> injured leg
masks

"Many babies seemed to be borderline unconscious,
but one was cyanotic."

Crouched between row 1 & 2 behind stairwell
IMP Hit - Part broke off - FIRE

"FLAMES came up stairwell and were followed
by intense heat."

Life raft inflated

"...seats near the life raft were Pulled off
the ground (sic) and overturned with the
children still strapped in them..." Stopped.

Saw <Dr. Stark> with injured <Crewman> out/in

Last Part to be evacuated was next to stairwell.

Saw arm/kids buried under debris- found them alive

DRYE, T.

Cargo Compartment:

PASSENGER, 17, Fem.

Stayed in Cargo Compartment on side "bench" seat

ED saw back of a/c gone

WISE, P.R., Sgt.

Cargo Compartment:

Left hand side - facing forward - seat belt/litter strap

ED Standing - "hit the deck" - grabbed cargo strap
Passed out. Woke up in ICU

FLIGHT OF CSA 68-218

- April 4, 1975 -

1603 lcl: TO Rnwy 07 Tan San Nhut AB, Saigon RVN

464,000 lbs. / fuel at 96,200 lbs.

Cleared to FL330 - talk about restriction of FL due Poss. ED.

Climb thru FL234 ED

+ 45 sec. shallow descending turn

Pilot realizes no Pitch control

Pitch trim, elevator, rudder cables severed

IAS incr. to 300 k. - nose rise - IAS decrease

Rt.bank 30-40 / Pwr reduced to avoid stall speed range

Steep dive / wings levelled / increased IAS

Only Power & bank to control Pitch

Controlable R/D at 250 - 260 k.

L/G ext. at 10,000 ft. / 260 k. heading 310 for 25L

6 NM out 4000 ft. 230 k. shallow (15) l. turn

1/2 way thru, a/c nosed down: rolled level, full Power

1630 lcl: @ 270 k. 2 NM NE Rnwy - a/c level / l.wing low: main gear

contacted rice Paddy - tore/shed Parts - became airborne

crossed Saigon River - impacted - disintegrated -

tail, flt deck, troop compt. & wing sections torn away

& stopped in different locations in crash Path.

Main Fuselage (Cargo Compartment) totally disintegrated

with large section of floor remaining in major impact area.

CSA DATA

length: 247' 10"
 fuselage length: 230' 7.5"
 span: 222' 8.5"
 height: 65' 1.5" (six stories)

UPPER & Lower Decks

Upper fwd: 39' 4" x 13' 9.5" x 7' 6" (L-W-H)

(troop) aft: 59' 8.5" x 13' x 7' 6"

Lower w/o ramp 121' 1" x 19' x 13' 6"

w/ ramp: 144' 7" x 19' x 13' 6"

height to floor: 4' 4.75" to 4' 9" (front to back) (kneeled)

Max. ramp weight: 769,000 lbs.

basic oper. wt. 337,937 lbs.

Max. ldg wt. 635,850 lbs.

Max zero fuel wt. 558,904 lbs.

Vne: 409.5 K (m=0.875)

Vs (Max ldg wt): 104 K (40 deg. flap)

Landing (from 50') 3,600 ft.

Landing run 2,230 ft.

INJURIES
SUMMARY BY INDIVIDUAL

(Reconstructed from Medical Records)

TROOP COMPARTMENT:

GOFFINET Harriet Mary 8/9/50 5'6" 113# blk brn slndr

fracture: L. Clavicle - undisplaced lateral aspect
abrasions: rt. hand (rt. index finger)
ecchymosis about Perinium & rt. Posterior thigh (buttocks)
multiple abrasions & contusions

ecchymotic area over l. eye; l. upper arms; r. upper arms
abrasions to r. forearm "(burns ?)" (rept: burns on ear)
tender l. knee

small laceration l. buttock (rept: Rt. leg & thighs also)

WIRTZ Marcia R. 1/5/50 5'3 1/2" 115# brn brn slndr

Post traumatic anxiety syndrome
minor bruises

AUNE Regina 5'8 126# brn blu med

FX rt. foot (cast) (4 bones broken)
FX spinal C-3, compression
FX spinal L-3, compression
lacerations: l. hand (sutured)
lacerations: l. elbow (Puncture, drain)
Pain L-5 to S-1 (region of L-5) lumbo-sacral spine area

GMEK Gregory

24 yrs. 5'8 1/2" 185# brn blu med
11/76: 5'9" 153#

FX 5-left ribs (7-11)

L. Pneumothorax (tube thoracotomy)

Chin laceration

multiple lacerations: head/face (sutured)

multiple contusions: l. chest; r. thigh

loose body - l. ankle

5 Apr 75: 20 days hosp.

2 Oct 75: 14 days hosp.

3/1/76 disch. AF

4/8/76 VA app. Plastic surgery - chin

PARKER William FATAL 12/11/38 5'9" 165# - - med

FX Skull: frontal/occipital compound/depressed

cerebral lacerations

cranial & intracranial wounds

FX Rt. Femur (in cast)

Rt. Pneumothorax (tension)

BronchoPneumonia (both lungs)

contusion: Rt. Testicle

4 Apr 75: Amer Hosp. - comatose

air evac to Okinawa: 8 Apr 75 operation

air evac to Tripler: 12 Apr 75 admitted

DIED: 21 Apr 75

BOUTWELL Olen 44 yrs. -

Contusion: Rt. anterior chest

DOUGHTY Peter 7/12/39 5'11 1/4" blonde blu med

Pain: L. shoulder

laceration: L. shin (1 cm)

PERKINS Howard 2/9/31 6'1" blk brn med

Dislocation: Rt. shoulder, anterior

Rt. knee: ligament tear & knee cap FX (tibial spine fx.)

HADLEY James 6/15/48 6' 170# Blonde blu med

Pain: surf. L. forehead

tenderness: above L. ear

sore all over

abrasions: L. elbow, knee cap

cuts: both hands, Rt. ankle

eyes: gritty

dizziness/ lightheadedness

mid-thoracic back muscle spasm

FLIGHT DECK / CREW REST AREA (Forward Troop Compartment):

TRAYNOR Dennis 4/18/44 5'9" 160# brn blu med

No injury

HARP Tilford 10/1/46 5'11 1/2" 175# brn brn med

abrasions: Rt. forearm

mult. abrasions/lacerations: both legs

open wound: L. knee

ref: 6 Apr 75 "struck by dash Panel"

27 June 76 "LBP for 2 months - occasional stiffness, soreness. Has
tingling sensation - comes and goes. First injured in a/c
accident one year ago."

LANGFORD John 10/13/47 5'9 1/2" 172# brn brn med

abrasion: 4th finger (L/R ?)

bump behind Rt. ear

abrasion: L. calf

ENGLES Allen 35 yrs. - -

contusions: L. knee, L. arm

abrasions: both hands

MALONE Keith	1/8/42	6'1"	195	brn	blu	sln
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limited motion Rt. arm

mild L. Lumbar muscle spasm

contusions: Rt. side of face

14 Jan 76: (Phys) back exam negative

10 Jan 77: (Phys) "A/C Accident Apr 75 suffered mild lumbar muscle spasm. Mildly symptomatic this exam."

(Sep 69 - back Pain)

WALLACE William	9/13/36	6'	170#	blonde blu. med
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Discomfort L. temple area.

Erwise on Rt. hip

no disease found - disch. 8 April 75

McATEE Lynn 4/22/37 5'11 1/2" 177# brn brn med

Pain: inspiration & arm movement

hit by something blunt in middle of sternum

reddened areas: L. shoulder

Pain: lower back neck area

Sharp "shock" Pain moving head to right

BRADLEY Percy	8/11/35	5'7"	155#	blk	brn	med
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abraision: Et. arm

Pain: back of neck, esp. when moving head up

7 Apr 75 dish.

SHEDGAR Ray

5'10"

181#

brn

brn med

Contusion: Rt. mandible

soreness jaw & behind rt. ear

abrasion: top rt. ear

swelling L. eyelid

3 cm gash on Rt. lower leg

soreness on chest

burn on Rt. 3rd finger

CARGO COMPARTMENT:

WISE Phillip (only Crew survivor from Cargo Compartment)

Concussion/Brain Damage (cerebral contusion)(organic brain syndrome)

FX L-3; unconscious/amnesia

OTHERS, ALL FATAL: (Autopsies/Med Records reviewed)

Edgar MELTON Massive Trauma

Kenneth NANCE " "

William WILLIS (no autopsy/death data found)

Donald DIONNE (" " " " " ")
(not incl. in count - ejected at ED)

Felizardo AGUILLON FX/wounds, open/crush chest/etc.

Joe CASTRO Gross trauma/severed/mutilated/crushed

Denning JOHNSON multi-FX/neck, arms/Lacerations/etc

Mary T. KLINKER FX-neck, arms, legs/multi-lacerations/etc.

Wendell PAYNE EXTREME avulsion/multi-FX: spine/etc.

Michael PAGET multi-FX/ lacerations: heart, lungs, liver

IFT TROOP COMPARTMENT - ADULT ATTENDANTS - (civilian)

ADAMS Barbara - FATAL 67 1/2" Fem. Cauc. Blk/Grey hair

No AutoPsg: Gross description from ID chart

Crushed chest

FX both lower extremities - broken joints

Mult. lacerations hands, feet, face, torso, legs

mult. bruises chest, eyes, hand, arms, elbows, legs, face

Mult. abrasions rt. rear upper back

discolorations - face

Spinal fractures (witness)

body twisted grotesquely (witness)

ADAMS Linda

Torn Knee Pads; muscles stretched; both legs

cut foot (left scar); whiplash; severe Psych. Problems

THOMPSON Thelma

UNK: received stitches but not known for what

Pain in ears during deceleration

DERGE Susan

Ear torn off; back broken 4 Places; scarce data

STARK Merritt, Dr.

UNK: (no data) *NO INJURY*

LEIVERMANH Christie

Mult. bruises, cuts, scratches: arms / legs

Pulled muscles: rt. leg & arm

decreased vision one eye

TESTIMONY

Reconstruction from trial and dePosition testimony:

TRAYNOR Dennis Pilot-in-command

(3/1/80 Schneider trial)

Limited control - left turn back to Saigon

Selected long stretch of uncultivated rice fields

at 200' idle thrust / Ground cushion made a/c flare - 500'/min descent

IMP(1): 270 Knots - skimmed along Ground - airborne - crossed river

IMP(2): West side a/c/ "shook" a little more - "not severe"

+10 - 15 Seconds turned upside down & stopped

someone yelled "fire" - got out

Harp (co-Pilot) injured legs on rudder Pedals / crawling out

never went to troop compartment - Nav. (Langford) did

Nav. reported condition of all People (T.C.) good

may have seen 1- baby who died there

Didn't know 1- man overboard at ED

Doesn't recall Collateral Report saying anything about man ejected at ED

Was told 154 died

"wouldn't call it violent from my viewPoint"

"felt I was upside down..."

Feared "hitting one of the rice dikes, which would have been

4 or 5 feet tall..." (P.2216/82)

(1-26-82 Kurth Trial)

Traynor now living in Germany

IMP(1): 500 - 600 ft./min descent; 270 Knots; (normal = 90 - 120 K.)

skipped like a stone on water

IMP(2): Rougher - vibration; cockpit lurched forward & down; roll to

rt.

+ 20 - 30 seconds: stopped upside down

"saw"/"helped" several kids / adults from (under) cockpit area

(lower) wreckage (P.2231/22)

IMJ Banged leg on hydraulic line; slipped

Landing (was) downwind (P.2236)

(3-9-82 Bosi Trial)

IMP(2) landed west side of river: vibration - lurched forward

Nose lurched over - began to roll inverted

Helping kids out of there (upturned flight deck)

Six children & two adults alive there (no mention bodies)

Afraid to hit rice dikes 3' to 4' tall - may have caused more damage

to flight deck than had already occurred (PP. 63/4; 63/12)

+ 10 to 15 sec 2nd impact to stop

Dike fear (P. 72)

several bodies (P. 77/11-19)

Pulled throttle Just Prior to impact (note: at full Power already

there would not be enough time for engine spool-down; no effect)

HARF Tilford W.

Co-Pilot

(3-9-82 Bosi Trial)

IMP(1): Smooth: 265 - 270 Knots

Airborne - applied full Power to cross river

IMP(2): Very hard - rolling (over)

Carried about 9000 lbs. of fuel (must be in each of 12 tanks = 96,000 lbs)

Stopped: momentarily stunned - rested - hyperventillated

Full Power across river

Extremely hard impact west side of river

Three or four (crewmembers) in Crew Rest area

I-I-I Sprained both ankles; few cuts, abrasions (P. 2154)

(NOTE: AF MED REPORTS say: "abrasions - rt. forearm

multiple abrasions/lacerations: both legs

Open wound: left knee)

"One of the medical crewmembers who was at the base of the flight station
was somehow injured at RD"

MALONE Col. Keith D.

IP - Jump Seat

(3-4-82 DEFO - Bosi Trial)

All of the Troop Compartment seats had two children

IMP(1): Airspeed thru 260 and climbing - impact: full Power

IMP(2): Got very quiet -- strange

INJ Bruise - Palm of hand - hanging onto seat at impact

314,000 Pounds max. fuel (capacity)

fuel burn rate = 22,000 Pounds/hour; 4 hour flight

would be $4 \times 22,000 \text{ lbs.} = 100,000 \text{ Pounds}$

INJ Lower back Pain reported to Dr. Rayman

" " " reports throughout career

NOTE: (AF MED Records add "limited motion rt. arm)

and mild L. Lumbar muscle spasm)

and contusion - rt. side of face)

Sgt. Wise was in the lower wreckage of the Flight deck (Cargo Compt.)

(3-27-80 Schneider Trial)

Heard 2- forward facing seats in Troop Compartment came loose

someone Picked them up and righted them

Intent after 1st impact was to fly it out - full Power

4- Main Landing Gear: 6 wheels each (NOTE: + 4 on nose Gear)

WIRTZ Marcia G (TATE) Flight Nurse

(3-27-80 Schneider trial)

Orphans in all available seats (T.C.)

ED in galley

Talked to one of escort ladies

Scooted in between two rows of seats

Scooted back across aisle to original row of seats - stayed there

IMP Body over laps of infants facing forward kneeling on floor

Kept head down until stopped

No fire in troop compartment

Smell of fumes/ cinders

INJ "No" (NOTE: AF RECORD= Post Traumatic Syndrome/ Bruises)

Mrs. B. Adams across aisle from Wirtz before impact

Q. "some of babies died there ?" A. Yes _____

Ref. to deposition 10-24-78 (p.1981/18)

Crew member stood up to deflate a life-raft - did not get down

Prior to impact

20

ALINE Regina

Flight Nurse

(3-27-80 Schneider case)

all seats filled with children

2 to a seat; all seats filled

ED Kneeling on grating - loadmaster seat area

IMP Seated "Tailor" fashion (legs crossed): Slid down aisle
ended up in a Pile of rubble

INJ Numerous cuts, bruises

3 to 4 bones FX: Rt. Foot

Puncture wound: Rt. leg

Spinal FX: bone broken in back (L-3)

Passed out

on leave 5 weeks after accident

(2-1-82 Kurth Trial)

identical to 3-27-80-testimony

(3-9-82 Bosi Trial Video DEPO)

(repeated injury list above Plus: laceration l. elbow)

Three died in troop compartment

(3-31-80 Schneider Trial)

Babies two to a seat

ED Panels loosened - didn't come down

IMF(1): Thrown forward - hit forward bulkhead - then doesn't remember
'till coming to stop: on wall, upside down, under debris, Panels

I-M-J FX - broken collarbone

multi- bruises, cuts, lacerations

Heat - cinders

Saw 1- dead infant - no apparent injury

Saw 2- seats not in original Position - not completely loose from floor
bent at angle

(4-28-80 Zimmerly)

Some adult children occupied on seat on their own

IMF(2): Thrown forward - felt heat/cinders & saw some flames

Came to rest upside down against forward bulkhead under Person/rubble

Crawled out hole in front- Flight crewmember (Sgt. Parker) in hole

Tried to move/Pull him out - couldn't -

I-M-J collarbone FX, 1.

Saw woman with broken neck - body out of alignment - spine not straight

Two babies died ? Don't know. Believe two died

Dead baby- strangled ? Could have died from internal injuries.

Some seats not in upright Position - bent

3 seats in a row - all not completely loose from floor

(5-7-80 Marchetti trial)

IMF Flames and hot air came UP thru Grate initial impact 277

During impact, heard LINDBERGH saw flames

INJ: Got burns on ears

Bruises, lacerations, FX collarbone (1.)

Thrown in aisle - then forward into bulkhead

"scorching" on ears

Saw dead baby

momentary feeling of fire

Saw flames both at impact & last thing as stopping

(11-25-81 DEPO/VIDEO)

Doughty got her out of rubble

outside - spoke with Wirtz

Found 1- child under seat cushion inside - retrieved & handed out.

Heat felt through grate - forward Part of troop compartment (P. 48/7)

Separated from USAF 5/75 - 1 month later

IMP(2): Saw flames for instant - same time thrown forward

Crawled out hole to cargo compartment in forward bulkhead

approx row of bent/dislodged seats: (marked exhibit) (P.65/2)

two babies died in troop compartment

(1-26-82 Kurth)

Babies handed out left side exit

INJ broken FX 1. collarbone

contusions: many - legs and arms

Grate location: forward end of troop compartment

flames seen through grate on fwd. bulkhead

Saw 13 year old boy out hole in fwd bulkhead

this "young American" boy helped try to move Sgt. Parker

LEIVERMANN Christie

FFAC escort - nurse

(11-3-81 Marchetti DEPO)

ED side Panels had fallen

IMP(1): Hit with tremendous Jolt

severe enough to make Plane bounce back UP in air again

ceiling Panels came down - wall Panels came off walls

SEATS: ripped out of ground (sic) at this Point or at second impact

IMP(2): another severe Jolt - then hopping along

"the most tremendous force I have ever felt in my life"

after second impact there was fire coming UP stairwell with

very acrid fumes, smoke intense heat

Both door exits blocked - went to further forward exit

Saw couple children outside - face down in mud

Saw wounded crew Person - several other crew on ground

Boosted back inside

Passed bandages out to Dr. Stark attending wounded crewman

Many children turned over in there seats were upside down

children still strapped in

Aware two seats near stairwell - remember fire'

Thought children dead because couldn't see them

covered with debris - went back and found alive

Pulled - unstrapped - handed them out

Children at hospital looked like they had been through hell

INJ Cuts and scratches; some Pulled muscles; decreased vision one eye

Forward section seats - rear section seats had overturned -

Pulled from their rivets (Ex.3-193 & 3-194 & 19-C)

Had to Pull them over - noticed rivits

IMP(1): (vertical) very severe Jolt

due to holes: saw things Pass

Saw fire - stairwell

SUMMARY OF INJURIES

SURVIVORS

(Reconstructed from Medical Records, Statements, Testimony)

TROOP COMPARTMENT:

(USAF PERSONNEL)

PAGE(S)

GOFFINET Harriet Mary

fracture: L. Clavicle - undisplaced lateral aspect
 abrasions: rt. hand (rt. index finger)
 ecchymosis about Perinium & rt. Posterior thigh (buttocks)
 multiple abrasions & contusions
 ecchymotic area over l. eye; l. upper arms; r. upper arms
 abrasions to r. forearm "(burns ?)"
 tender l. knee
 small laceration l. buttock
 burns/scorching on ears
 contusions: many - legs & arms

14/28

WIRTZ Marcia R.

Post traumatic anxiety syndrome
 minor bruises

14/25

AUNE Regina

FX rt. foot (cast)
 FX spinal C-3, compression
 FX spinal L-3, compression
 lacerations: l. hand (sutured)
 lacerations: l. elbow (Puncture, drain)
 Pain L-5 to S-1 (region of L-5) lumbo-sacral spine area
 Passed out
 on leave 5 weeks Post accident

14/26

GMEREK Gregory

FX 5-left ribs (7-11)
 L. Pneumothorax (tube thoracotomy)
 Chin laceration
 multiple lacerations: head/face (sutured)
 multiple contusions: l. chest; r. thigh
 loose body - l. ankle
 5 Apr 75: 20 days hosp.
 2 Oct 75: 14 days hosp.
 3/1/76 disch. AF
 4/8/76 VA app. Plastic surgery - chin

15

PARKER William FATAL

FX Skull: frontal/occipital compound/depressed
cerebral lacerations
cranial & intracranial wounds

15

FX Rt. Femur (in cast)
Rt. Pneumothorax (tension)
BronchoPneumonia (both lungs)
contusion: Rt. Testicle

4 Apr 75: Amer Hosp. - comatose
air evac to Okinawa: 8 Apr 75 operation
air evac to Tripler: 12 Apr 75 admitted
DIED: 21 Apr 75

BOUTWELL Olen .

Contusion: Rt. anterior chest

16

DOUGHTY Peter

16

Pain: L. shoulder
laceration: L. shin (1 cm)

PERKINS Howard

16

Dislocation: Rt. shoulder, anterior
Rt. knee: ligament tear & knee cap FX (tibial spine fx.)

HADLEY James

16

Pain: surf. L. forehead
tenderness: above L. ear
sore all over
abrasions: L. elbow, knee cap
cuts: both hands, Rt. ankle
eyes: gritty
dizziness/ lightheadedness
mid-thoracic back muscle spasm

TROOP COMPARTMENT :

(CIVILIANS)

ADAMS Barbara - FATAL

No AutoPsy: Gross description from ID chart

20

Crushed chest

FX both lower extremities - broken joints

Mult. lacerations hands, feet, face, torso, legs

mult. bruises chest, eyes, hand, arms, elbows, legs, face

Mult. abrasions rt. rear upper back

discolorations - face

Spinal fractures (witness)

body twisted grotesquely (witness)

ADAMS Linda

Torn Knee Pads; muscles stretched; both legs

20

cut foot (left scar); whiplash; severe Psych. Problems

THOMPSON Thelma

UNK: received stitches but not known for what (no data)

20

Pain in ears during deceleration

DERGE Susan

Ear torn off; back broken 4 Places; scarce data

20

STARK Merritt, Dr.

UNK: (no data)

LEIWERMANH Christie

Mult. bruises, cuts, scratches: arms / legs

20/29

Pulled muscles: rt. leg & arm

decreased vision one eye

FLIGHT DECK/ Crew Rest Area (Forward Troop Compartment):

TRAYNOR Dennis

No injury

22/11

Reported "banged leg on hydraulic line" (continuing Problem)

HARRP Tilford

abrasions: Rt. forearm

17/23

mult. abrasions/lacerations: both legs

open wound: L. knee

ref: 6 Apr 75 "struck by dash Panel"

27 June 76 "LBP for 2 months - occasional stiffness, soreness.

Has tingling sensation - comes and goes. First injured in

a/c accident one year ago."

LANGFORD John

abrasion: 4th finger (L/R ?)

17

bump behind Rt. ear

abrasion: L. calf

ENGLES Allen

contusions: L. knee, L. arm

18

abrasions: both hands

MALONE Keith

24/18

limited motion Rt. arm

mild L. Lumbar muscle spasm

contusions: Rt. side of face

14 Jan 76: (Phys) back exam negative

10 Jan 77: (Phys) "A/C Accident Apr 75 suffered mild lumbar muscle spasm. Mildly symptomatic this exam."

(Sep 69 - back Pain)

WALLACE William

Discomfort L. temple area

18

Bruise on Rt. hip

MCATEE Lynn

18

Pain: inspiration & arm movement

hit by something blunt in middle of sternum

reddened areas: L. shoulder

Pain: lower back neck area

Sharp "shock" Pain moving head to right

BRADLEY Percy

18

abrasion: Rt. arm

Pain: back of neck, esp. when moving head up

SNEDEGAR Ray

19

Contusion: Rt. mandible
soreness jaw & behind rt. ear
abrasion: top rt. ear
swelling L. eyelid
3 cm gash on Rt. lower leg
soreness on chest
burn on Rt. 3rd finger

CARGO COMPARTMENT :

(USAF PERSONNEL)

WISE Phillip (only Crew survivor from Cargo Compartment) 11/19

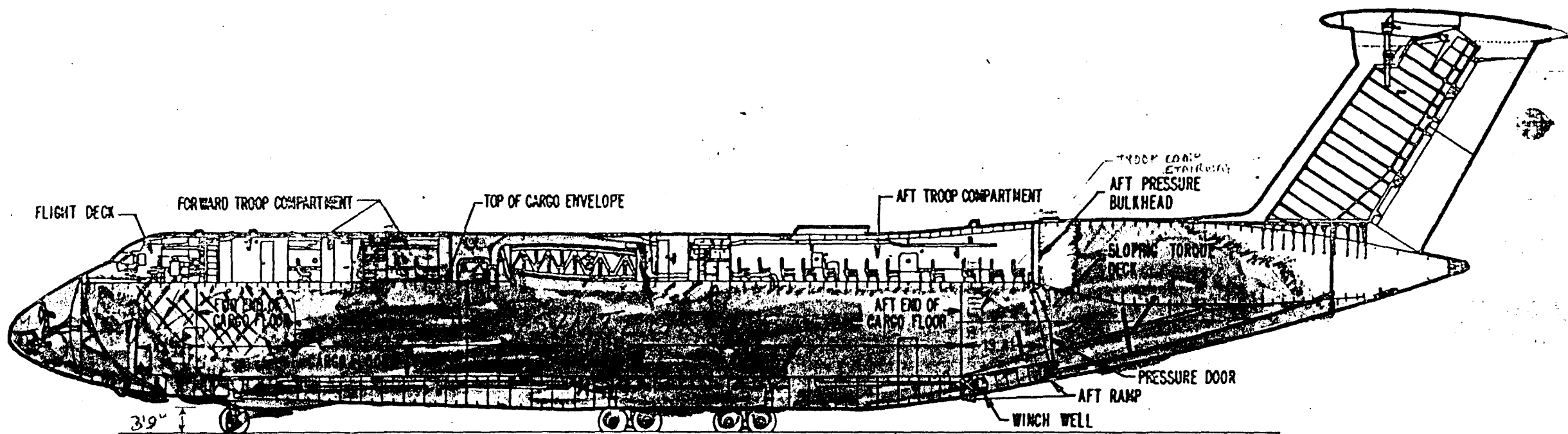
Concussion/Brain Damage
(cerebral contusion)
(organic brain syndrome)
FX L-3; unconscious/amnesia

(CIVILLIAN)

DYE

Lost her ear
back broken in four Places
rept: severe Psychological Problems

11



230'-7.5"

247'-10"

SCALE: 1 mm = .766196'

9 CREW

GOFFINET
GLAFFINETT
PARKER
PERRINS
GIEREK
WIRTZ
BOUTWELL
HUNE
HADLEY

6 - CIV. ADULTS

STARK
ADAMS
ADAMS
DERGE
LEVERMANN
THOMPSON

1 - 13 YR OLD BOY

1 - 7 YR OLD CRIPPLED CHILD ?

~~NO INFANTS & CHILDREN~~

~~(75 SEATS x 2-3 TO A SEAT)~~

~~(NO SEATS FOR ADULTS)~~

145 REPORTED

RECONSTRUCTION FROM SURVIVOR STATEMENTS : J. CARROLL 3/64

(LOCATIONS AT IMPACT)

FORWARD FACING LOADMASTER SEAT

LEVERMANN, C.E.

ESCORT (PAX) SAW FLAMES COME
UP STAIRWELL FOLLOWED BY INTENSE HEAT - LIFE RAFT
INFLATED - RETRIEVED
DR. STARK
(PAX-ESCORT)
"KIDS" BODIED IN DEBRIS
NEAR STAIR WELL

ADAMS, B.E. (MOTHER OF ↓)
(THROWN DOWN AISLE)
(FATALITY)

ADAMS, L.D., 18, fem.
(CIV. PAX ESCORT - SAW FIRE
FELT FLAMES)

Sgt. GIEREK
(ENDED UP FORWARD
BY LATRINE)

MSGT. BOUTWELL
(THREW EXITS OUT)

ESCAPE HATCHES

LADDER TO
CARGO

AFT

LATRINE

PAX-ESCORT
T.L. THOMPSON

"PULLED" AT LAST IMPACT:
"TREMENDOUS ONE"
ENDED UP BY OPENED EXIT
SAW FIRE/SMOKE HEARD
CRACKLING
FELT HEAT - URGENCY
TO GET AWAY

HADLEY ("FLEW" OVER AUNE
ALL THE WAY BACK
PAST LATRINES)
(ALSO SEEN THROWING EXITS OUT)

ESCAPE HATCHES

NURSE LT. AUNE
(SAW SLIDES INFLATE INSIDE)
SLID ALL THE WAY DOWN AISLE
PAST LATRINES

NURSE LT. WIRTZ
(SAW EXPLOSION & FIRE, SMOKE)

DERGE, 19, FEM., PAX-ESCORT.
(THROWN - EAR CAME OFF)
ENDED UP BY LATRINES

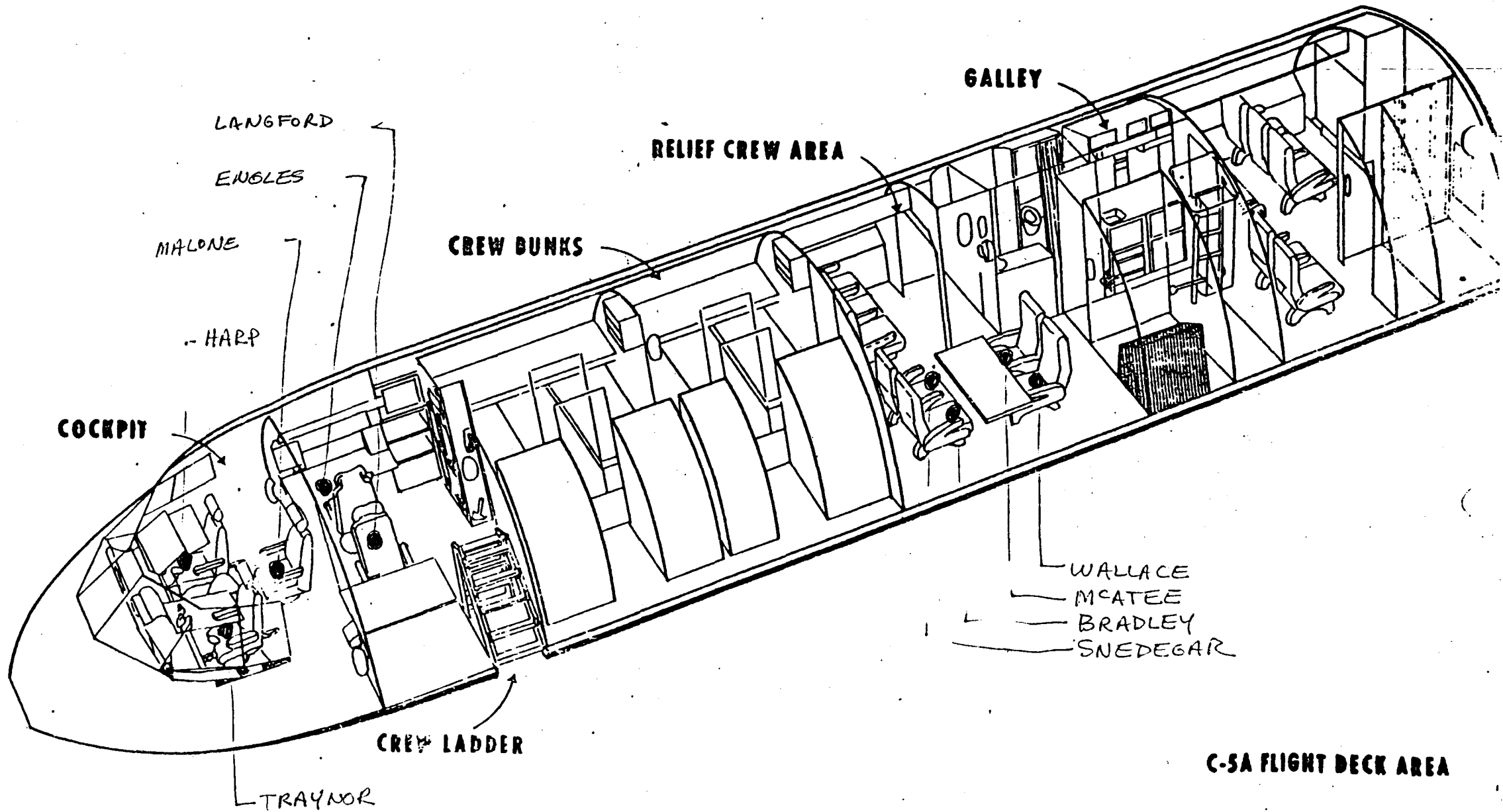
SMMSGT. PERKINS (AT EXP. DECOM.
(INJURED ON LADDER)

TSgt. PARKER (FATALITY)

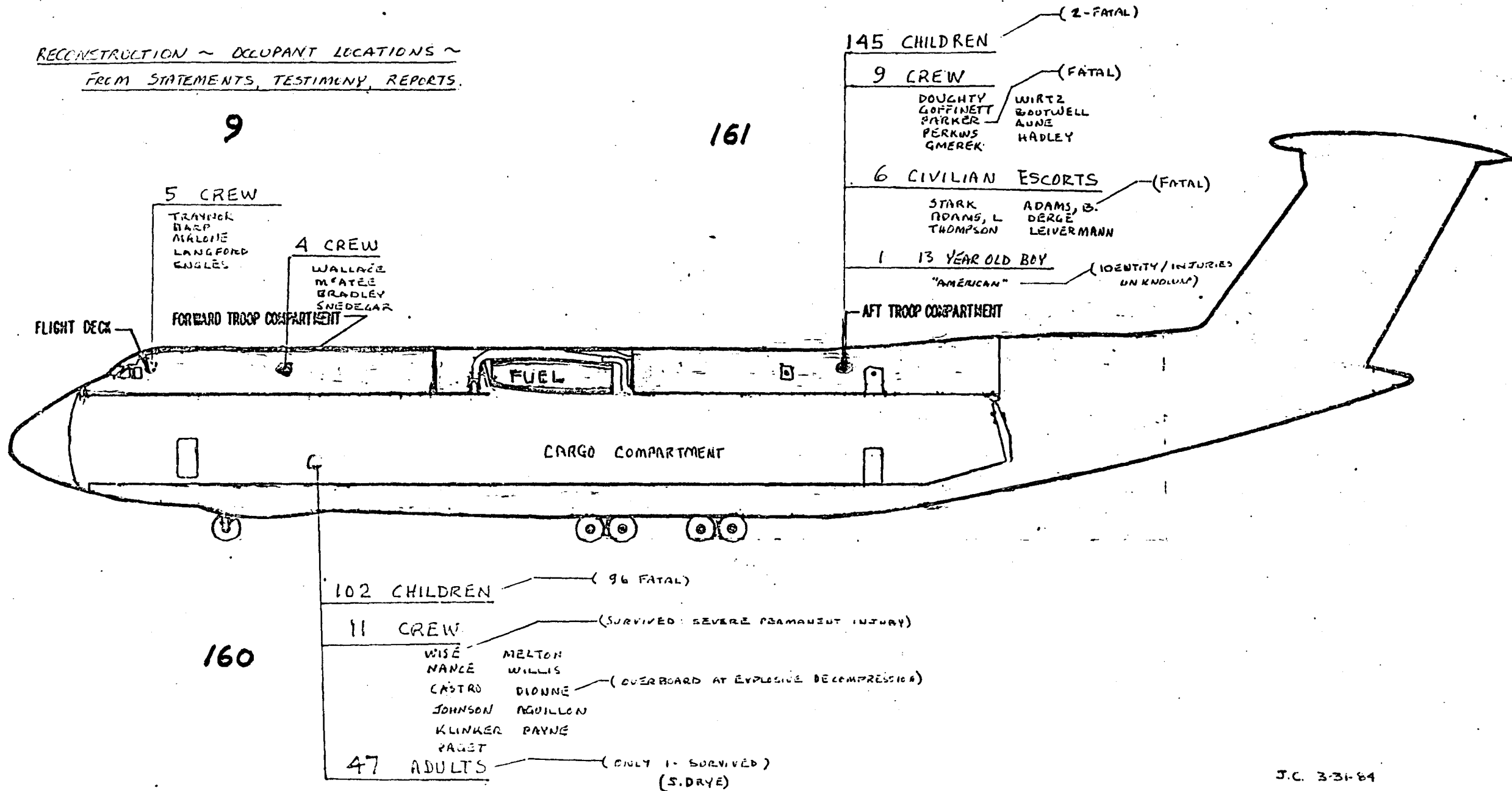
NURSE LT. GOFFINET (SAW FLAMES
HOT CINDERS IN FACE
BURNS ON EAR)

C-5A AFT TROOP COMPARTMENT AREA

FORWARD

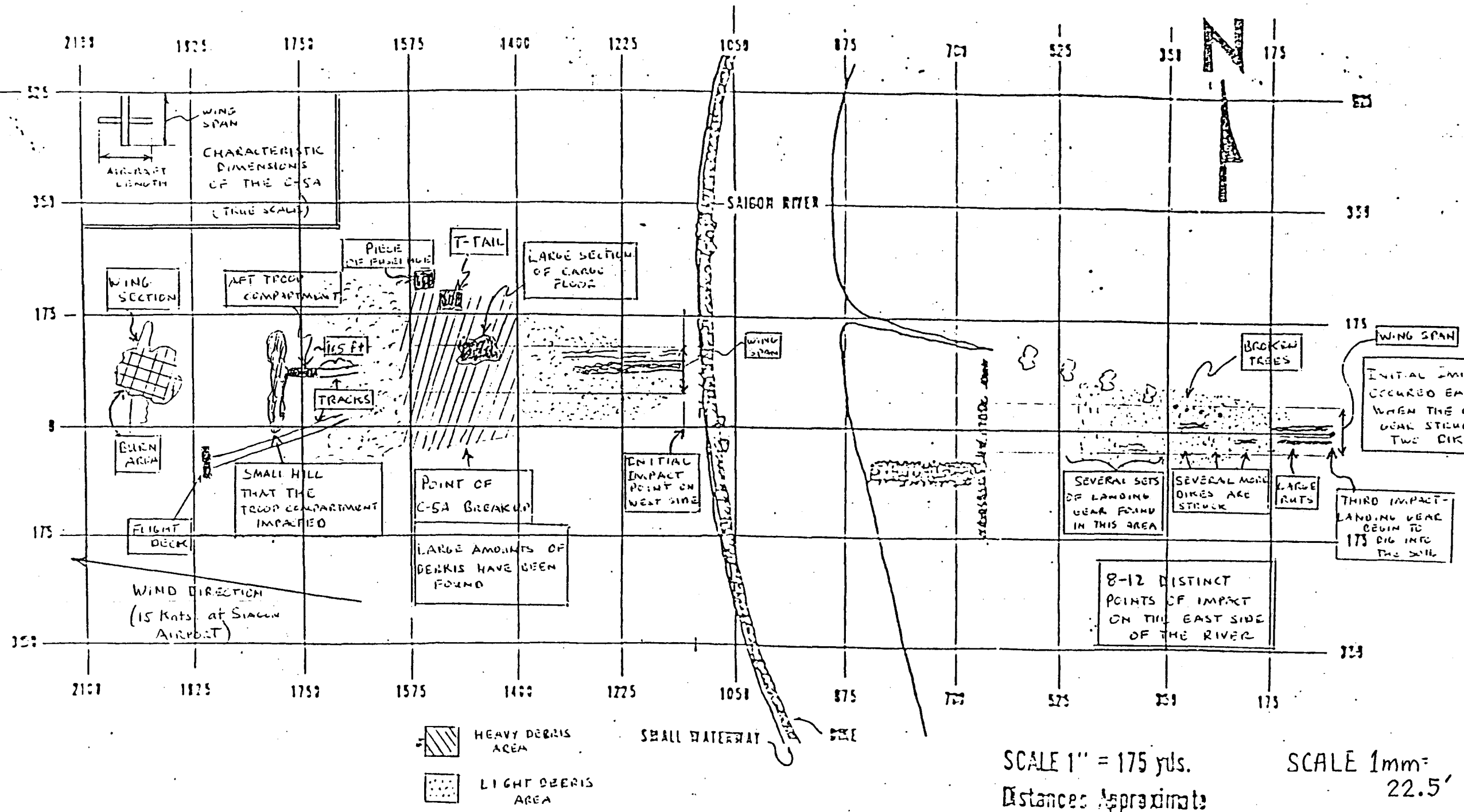


RECONSTRUCTION ~ OCCUPANT LOCATIONS ~
FROM STATEMENTS, TESTIMONY, REPORTS.

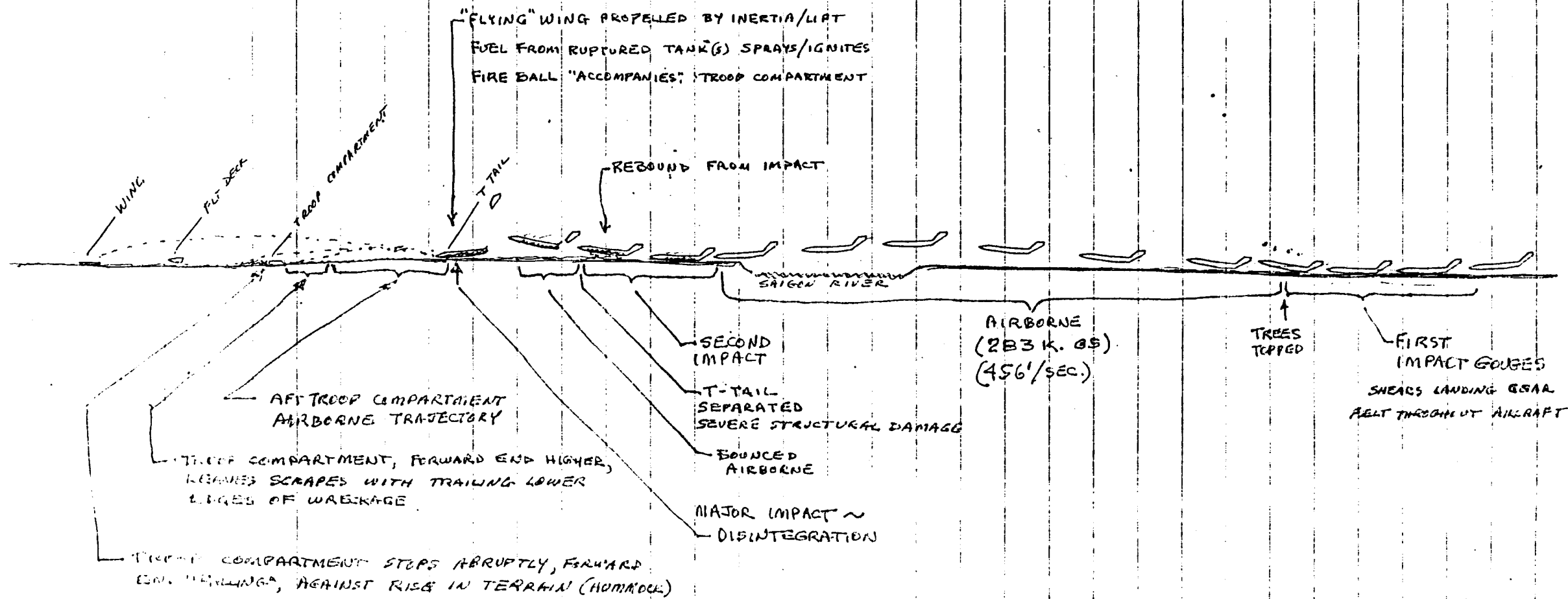


WRECKAGE DIAGRAM

C-5A SN 68-218 4 APRIL 1975



CRASH SEQUENCE RECONSTRUCTION



SCALE 1mm = 22.5'

WRECKAGE DIAGRAM

4 APRIL 1975

